

MFofML-proj

May 21, 2024

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[1]: import time
import numpy as np
import matplotlib.pyplot as plt
from surprise import Dataset, Reader
from surprise.model_selection import train_test_split
from tqdm import tqdm

# Load the MovieLens dataset
dataset_path = 'u.data'
reader = Reader(line_format='user item rating timestamp', sep='\t')

# Load the dataset into a Surprise dataset
data = Dataset.load_from_file(dataset_path, reader=reader)

# Convert the data into a pandas dataframe for easier manipulation
import pandas as pd
df = pd.read_csv(dataset_path, sep='\t', names=['userId', 'movieId', 'rating', 'timestamp'])

# Dropping the timestamp column & converting to int
df = df.drop('timestamp', axis=1)
df['rating'] = df['rating'] * 2
df = df.astype(int)

print(df.head())

# Map user and item IDs to indices
user_indices = {uid: i for i, uid in enumerate(df['userId'].unique())}
item_indices = {iid: i for i, iid in enumerate(df['movieId'].unique())}

num_users = len(user_indices)
num_items = len(item_indices)

# Convert trainset to indices
df['userId'] = df['userId'].map(user_indices)
df['movieId'] = df['movieId'].map(item_indices)
trainset_indices = df.to_numpy()
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# Initialize X and Y matrices using SVD
from scipy.sparse.linalg import svds

R = np.zeros((num_users, num_items))
for (u, i, r) in trainset_indices:
    R[u, i] = r

U, sigma, Vt = svds(R, k=10)
X0 = U @ np.diag(np.sqrt(sigma))
Y0 = Vt.T @ np.diag(np.sqrt(sigma))

# Modify power_factorization function to include max_iterations and early
# stopping
def power_factorization(X0, Y0, t_set, k, lambd, N, max_iterations=500,
    tolerance=1e-5):
    slices = t_set.shape[0] // N

    X = X0.copy()
    Y = Y0.copy()
    X1 = np.zeros_like(X)
    Y1 = np.zeros_like(Y)

    start_time = time.time()

    for iteration in tqdm(range(max_iterations), desc="Power Factorization"):
        u_to_sums = {u: {'sum_yi_yiT': np.zeros((k, k)), 'sum_rui_yi': np.
            zeros(k)} for u in range(num_users)}
        for s in range(slices):
            u, i, r = t_set[s]
            u_to_sums[u]['sum_yi_yiT'] += np.outer(Y[:, i], Y[:, i])
            u_to_sums[u]['sum_rui_yi'] += r * Y[:, i]
        for u in range(num_users):
            X1[:, u] = np.linalg.solve(u_to_sums[u]['sum_yi_yiT'] + lambd * np.
                eye(k), u_to_sums[u]['sum_rui_yi'])

        Xnorm_diff = np.linalg.norm(X1 - X)
        if Xnorm_diff < tolerance:
            break
        X = X1.copy()

        i_to_sums = {i: {'sum_xu_xuT': np.zeros((k, k)), 'sum_rui_xu': np.
            zeros(k)} for i in range(num_items)}
        for s in range(slices):
            u, i, r = t_set[s]
            i_to_sums[i]['sum_xu_xuT'] += np.outer(X[:, u], X[:, u])
            i_to_sums[i]['sum_rui_xu'] += r * X[:, u]

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        for i in range(num_items):
            Y1[:, i] = np.linalg.solve(i_to_sums[i]['sum_xu_xuT'] + lambd * np.
→eye(k), i_to_sums[i]['sum_rui_xu'])

            Ynorm_diff = np.linalg.norm(Y1 - Y)
            if Ynorm_diff < tolerance:
                break
            Y = Y1.copy()

    execution_time = time.time() - start_time
    return X, Y, execution_time

def create_split_sets(data, N):
    np.random.shuffle(data)
    return np.array_split(data, N)

def calculate_average_RMS(split_sets, k, lambd, N):
    X0 = np.random.rand(k, num_users)
    Y0 = np.random.rand(k, num_items)

    average_RMS = 0
    total_execution_time = 0

    for n in tqdm(range(N), desc="Cross Validation"):
        training_set = np.vstack([split_sets[i] for i in range(N) if i != n])
        test_set = split_sets[n]

        X, Y, execution_time = power_factorization(X0, Y0, training_set, k,
→lambd, N)
        total_execution_time += execution_time

        sum_first_term = 0
        for u, i, r in test_set:
            sum_first_term += (r - np.dot(X[:, u], Y[:, i])) ** 2

        average_RMS += np.sqrt(sum_first_term / test_set.shape[0])

    average_RMS /= N
    return average_RMS, total_execution_time / N

# Hyperparameter grid search
N = 5
kwargs_list = [{'N': N, 'k': k, 'lambd': lambd} for k in [5, 10, 15, 20] for
→lambd in [0.1, 1, 10, 100]]

split_sets = create_split_sets(trainset_indices, N)

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results = []

for kwargs in tqdm(kwargs_list, desc="Grid Search"):
    average_RMS, execution_time = calculate_average_RMS(split_sets, **kwargs)
    results.append(**kwargs, 'average_RMS': average_RMS, 'execution_time':
↪execution_time)

    print(f"Average RMS for k={kwargs['k']}, lambda={kwargs['lambda']}:
↪{average_RMS:.4f}, Execution time: {execution_time:.4f}s")

import matplotlib.pyplot as plt

# Extracting data for visualization
k_values = [result['k'] for result in results]
lambda_values = [result['lambda'] for result in results]
rms_values = [result['average_RMS'] for result in results]
execution_times = [result['execution_time'] for result in results]

# Plot RMS vs k
plt.figure(figsize=(10, 5))
for lambda in set(lambda_values):
    k_rms = [r['average_RMS'] for r in results if r['lambda'] == lambda]
    k_vals = [r['k'] for r in results if r['lambda'] == lambda]
    plt.plot(k_vals, k_rms, marker='o', label=f'lambda={lambda}')
plt.xlabel('k')
plt.ylabel('Root Mean Square Error (RMS)')
plt.legend()
plt.title('RMS vs k for different lambda values')
plt.show()

# Plot execution time vs k
plt.figure(figsize=(10, 5))
for lambda in set(lambda_values):
    k_exec = [r['execution_time'] for r in results if r['lambda'] == lambda]
    k_vals = [r['k'] for r in results if r['lambda'] == lambda]
    plt.plot(k_vals, k_exec, marker='o', label=f'lambda={lambda}')
plt.xlabel('k')
plt.ylabel('Execution Time (s)')
plt.legend()
plt.title('Execution Time vs k for different lambda values')
plt.show()

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	userId	movieId	rating
0	196	242	6
1	186	302	6
2	22	377	2
3	244	51	4

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| 187/500 [01:21<02:14, 2.33it/s]

Power Factorization: 38%|
| 188/500 [01:21<02:10, 2.40it/s]

Power Factorization: 38%|
| 189/500 [01:21<02:03, 2.51it/s]

Power Factorization: 38%|
| 190/500 [01:22<02:02, 2.53it/s]

Power Factorization: 38%|
| 191/500 [01:22<01:59, 2.58it/s]

Power Factorization: 38%|
| 192/500 [01:22<02:00, 2.56it/s]

Power Factorization: 39%|
| 193/500 [01:23<01:59, 2.56it/s]

Power Factorization: 39%|
| 194/500 [01:23<01:57, 2.60it/s]

Power Factorization: 39%|
| 195/500 [01:24<01:59, 2.55it/s]

Power Factorization: 39%|
| 196/500 [01:24<01:50, 2.76it/s]

Power Factorization: 39%|
| 197/500 [01:24<01:44, 2.89it/s]

Power Factorization: 40%|
| 198/500 [01:24<01:34, 3.21it/s]

Power Factorization: 40%|
| 199/500 [01:25<01:28, 3.41it/s]

Power Factorization: 40%|
| 200/500 [01:25<01:22, 3.65it/s]

Power Factorization: 40%|
| 201/500 [01:25<01:18, 3.82it/s]

Power Factorization: 40%|
| 202/500 [01:25<01:15, 3.95it/s]

Power Factorization: 41%|
| 203/500 [01:26<01:13, 4.07it/s]

Power Factorization: 41%|
| 204/500 [01:26<01:11, 4.16it/s]

Power Factorization: 41%|
| 205/500 [01:26<01:09, 4.22it/s]

Power Factorization: 41%|
| 206/500 [01:26<01:08, 4.28it/s]

Power Factorization: 41%|
| 207/500 [01:27<01:07, 4.36it/s]

Power Factorization: 42%|
| 208/500 [01:27<01:07, 4.35it/s]

Power Factorization: 42%|
| 209/500 [01:27<01:06, 4.37it/s]

Power Factorization: 42%|
| 210/500 [01:27<01:07, 4.33it/s]

Power Factorization: 42%|
| 211/500 [01:27<01:06, 4.34it/s]

Power Factorization: 42%|
| 212/500 [01:28<01:07, 4.26it/s]

Power Factorization: 43%|
| 213/500 [01:28<01:07, 4.24it/s]

Power Factorization: 43%|
| 214/500 [01:28<01:07, 4.24it/s]

Power Factorization: 43%|
| 215/500 [01:28<01:07, 4.21it/s]

Power Factorization: 43%|
| 216/500 [01:29<01:09, 4.11it/s]

Power Factorization: 43%|
| 217/500 [01:29<01:07, 4.17it/s]

Power Factorization: 44%|
| 218/500 [01:29<01:09, 4.07it/s]

Power Factorization: 44%|
| 219/500 [01:29<01:09, 4.07it/s]

Power Factorization: 44%|
| 220/500 [01:30<01:08, 4.11it/s]

Power Factorization: 44%|
| 221/500 [01:30<01:07, 4.12it/s]

Power Factorization: 44%|
| 222/500 [01:30<01:07, 4.13it/s]

Power Factorization: 45%|
| 223/500 [01:30<01:08, 4.06it/s]

Power Factorization: 45%|
| 224/500 [01:31<01:08, 4.06it/s]

Power Factorization: 45%|
| 225/500 [01:31<01:06, 4.11it/s]

Power Factorization: 45%|
| 226/500 [01:31<01:05, 4.17it/s]

Power Factorization: 45%|
| 227/500 [01:31<01:04, 4.21it/s]

Power Factorization: 46%|
| 228/500 [01:32<01:04, 4.20it/s]

Power Factorization: 46%|
| 229/500 [01:32<01:04, 4.18it/s]

Power Factorization: 46%|
| 230/500 [01:32<01:05, 4.12it/s]

Power Factorization: 46%|
| 231/500 [01:32<01:06, 4.06it/s]

Power Factorization: 46%|
| 232/500 [01:33<01:07, 4.00it/s]

Power Factorization: 47%|
| 233/500 [01:33<01:07, 3.98it/s]

Power Factorization: 47%|
| 234/500 [01:33<01:01, 4.30it/s]

Power Factorization: 47%|
| 235/500 [01:33<00:58, 4.53it/s]

Power Factorization: 47%|
| 236/500 [01:33<00:56, 4.64it/s]

Power Factorization: 47%|
| 237/500 [01:34<00:56, 4.68it/s]

Power Factorization: 48%|
| 238/500 [01:34<00:55, 4.69it/s]

Power Factorization: 48%|
| 239/500 [01:34<00:54, 4.81it/s]

Power Factorization: 48%|
| 240/500 [01:34<00:53, 4.82it/s]

Power Factorization: 48%|
| 241/500 [01:35<00:54, 4.73it/s]

Power Factorization: 48%|
| 242/500 [01:35<00:53, 4.80it/s]

Power Factorization: 49%|
| 243/500 [01:35<00:52, 4.91it/s]

Power Factorization: 49%|
| 244/500 [01:35<00:51, 5.02it/s]

Power Factorization: 49%|
| 245/500 [01:35<00:50, 5.08it/s]

Power Factorization: 49%|
| 246/500 [01:36<00:58, 4.31it/s]

Power Factorization: 49%|
| 247/500 [01:36<00:59, 4.26it/s]

Power Factorization: 50%|
| 248/500 [01:36<00:57, 4.40it/s]

Power Factorization: 50%|
| 249/500 [01:36<00:55, 4.52it/s]

Power Factorization: 50%|
| 250/500 [01:36<00:53, 4.64it/s]

Power Factorization: 50%|
| 251/500 [01:37<00:52, 4.70it/s]

Power Factorization: 50%|
| 252/500 [01:37<00:54, 4.55it/s]

Power Factorization: 51%|
| 253/500 [01:37<01:00, 4.06it/s]

Power Factorization: 51%|
| 254/500 [01:37<01:01, 4.02it/s]

Power Factorization: 51%|
| 255/500 [01:38<01:05, 3.71it/s]

Power Factorization: 51%|
| 256/500 [01:38<01:12, 3.36it/s]

Power Factorization: 51%|
| 257/500 [01:38<01:16, 3.19it/s]

Power Factorization: 52%|
| 258/500 [01:39<01:13, 3.30it/s]

Power Factorization: 52%|
| 259/500 [01:39<01:18, 3.06it/s]

Power Factorization: 52%|
| 260/500 [01:40<01:21, 2.96it/s]

Power Factorization: 52%|
| 261/500 [01:40<01:26, 2.77it/s]

Power Factorization: 52%|
| 262/500 [01:40<01:24, 2.82it/s]

Power Factorization: 53%|
| 263/500 [01:41<01:33, 2.53it/s]

Power Factorization: 53%|
| 264/500 [01:41<01:31, 2.57it/s]

Power Factorization: 53%|
| 265/500 [01:41<01:25, 2.76it/s]

Power Factorization: 53%|
| 266/500 [01:42<01:17, 3.02it/s]

Power Factorization: 53%|
| 267/500 [01:42<01:11, 3.27it/s]

Power Factorization: 54%|
| 268/500 [01:42<01:11, 3.26it/s]

Power Factorization: 54%|
| 269/500 [01:43<01:07, 3.41it/s]

Power Factorization: 54%|
| 270/500 [01:43<01:09, 3.29it/s]

Power Factorization: 54%|
| 271/500 [01:43<01:05, 3.51it/s]

Power Factorization: 54%|
| 272/500 [01:43<01:01, 3.73it/s]

Power Factorization: 55%|
| 273/500 [01:44<00:57, 3.98it/s]

Power Factorization: 55%|
| 274/500 [01:44<00:57, 3.95it/s]

Power Factorization: 55%|
| 275/500 [01:44<01:00, 3.73it/s]

Power Factorization: 55%|
| 276/500 [01:44<00:55, 4.03it/s]

Power Factorization: 55%|
| 277/500 [01:44<00:52, 4.22it/s]

Power Factorization: 56%|
| 278/500 [01:45<00:50, 4.37it/s]

Power Factorization: 56%|
| 279/500 [01:45<00:51, 4.31it/s]

Power Factorization: 56%|
| 280/500 [01:45<00:56, 3.92it/s]

Power Factorization: 56%|
| 281/500 [01:46<00:58, 3.77it/s]

Power Factorization: 56%|
| 282/500 [01:46<01:00, 3.58it/s]

Power Factorization: 57%|
| 283/500 [01:46<00:56, 3.81it/s]

Power Factorization: 57%|
| 284/500 [01:46<00:53, 4.01it/s]

Power Factorization: 57%|
| 285/500 [01:47<00:51, 4.16it/s]

Power Factorization: 57%|
| 286/500 [01:47<00:49, 4.33it/s]

Power Factorization: 57%|
| 287/500 [01:47<00:48, 4.43it/s]

Power Factorization: 58%|
| 288/500 [01:47<00:54, 3.88it/s]

Power Factorization: 58%|
| 289/500 [01:48<00:54, 3.89it/s]

Power Factorization: 58%|
| 290/500 [01:48<00:53, 3.95it/s]

Power Factorization: 58%|
| 291/500 [01:48<00:51, 4.09it/s]

Power Factorization: 58%|
| 292/500 [01:48<00:50, 4.12it/s]

Power Factorization: 59%|
| 293/500 [01:48<00:48, 4.28it/s]

Power Factorization: 59%|
| 294/500 [01:49<00:47, 4.38it/s]

Power Factorization: 59%|
| 295/500 [01:49<00:50, 4.07it/s]

Power Factorization: 59%|
| 296/500 [01:49<00:51, 3.96it/s]

Power Factorization: 59%|
| 297/500 [01:49<00:49, 4.14it/s]

Power Factorization: 60%|
| 298/500 [01:50<00:51, 3.94it/s]

Power Factorization: 60%|
| 299/500 [01:50<00:52, 3.86it/s]

Power Factorization: 60%|
| 300/500 [01:50<00:49, 4.06it/s]

Power Factorization: 60%|
| 301/500 [01:51<00:55, 3.59it/s]

Power Factorization: 60%|
| 302/500 [01:51<01:11, 2.78it/s]

Power Factorization: 61%|
| 303/500 [01:51<01:10, 2.79it/s]

Power Factorization: 61%|
| 304/500 [01:52<01:09, 2.81it/s]

Power Factorization: 61%|
| 305/500 [01:52<01:03, 3.07it/s]

Power Factorization: 61%|
| 306/500 [01:52<01:00, 3.23it/s]

Power Factorization: 61%|
| 307/500 [01:53<01:01, 3.16it/s]

Power Factorization: 62%|
| 308/500 [01:53<01:01, 3.12it/s]

Power Factorization: 62%|
| 309/500 [01:53<01:00, 3.17it/s]

Power Factorization: 62%|
| 310/500 [01:54<00:54, 3.51it/s]

Power Factorization: 62%|
| 311/500 [01:54<00:49, 3.84it/s]

Power Factorization: 62%|
| 312/500 [01:54<00:45, 4.11it/s]

Power Factorization: 63%|
| 313/500 [01:54<00:43, 4.32it/s]

Power Factorization: 63%|
| 314/500 [01:54<00:41, 4.49it/s]

Power Factorization: 63%|
| 315/500 [01:55<00:44, 4.14it/s]

Power Factorization: 63%|
| 316/500 [01:55<00:46, 3.98it/s]

Power Factorization: 63%|
| 317/500 [01:55<00:47, 3.87it/s]

Power Factorization: 64%|
| 318/500 [01:55<00:44, 4.07it/s]

Power Factorization: 64%|
| 319/500 [01:56<00:42, 4.21it/s]

Power Factorization: 64%|
| 320/500 [01:56<00:44, 4.06it/s]

Power Factorization: 64%|
| 321/500 [01:56<00:46, 3.88it/s]

Power Factorization: 64%|
| 322/500 [01:57<00:52, 3.37it/s]

Power Factorization: 65%|
| 323/500 [01:57<00:57, 3.07it/s]

Power Factorization: 65%|
| 324/500 [01:57<00:55, 3.15it/s]

Power Factorization: 65%|
| 325/500 [01:58<00:53, 3.25it/s]

Power Factorization: 65%|
| 326/500 [01:58<00:49, 3.51it/s]

Power Factorization: 65%|
| 327/500 [01:58<00:45, 3.81it/s]

Power Factorization: 66%|
| 328/500 [01:58<00:44, 3.85it/s]

Power Factorization: 66%|
| 329/500 [01:58<00:45, 3.73it/s]

Power Factorization: 66%|
| 330/500 [01:59<00:41, 4.06it/s]

Power Factorization: 66%|
| 331/500 [01:59<00:38, 4.36it/s]

Power Factorization: 66%|
| 332/500 [01:59<00:37, 4.47it/s]

Power Factorization: 67%|
| 333/500 [01:59<00:35, 4.66it/s]

Power Factorization: 67%|
| 334/500 [02:00<00:36, 4.53it/s]

Power Factorization: 67%|
| 335/500 [02:00<00:44, 3.72it/s]

Power Factorization: 67%|
| 336/500 [02:00<00:40, 4.03it/s]

Power Factorization: 67%|
| 337/500 [02:00<00:39, 4.12it/s]

Power Factorization: 68%|
| 338/500 [02:01<00:39, 4.14it/s]

Power Factorization: 68%|
| 339/500 [02:01<00:39, 4.07it/s]

Power Factorization: 68%|
| 340/500 [02:01<00:39, 4.10it/s]

Power Factorization: 68%|
| 341/500 [02:01<00:41, 3.86it/s]

Power Factorization: 68%|
| 342/500 [02:02<00:39, 4.02it/s]

Power Factorization: 69%|
| 343/500 [02:02<00:36, 4.28it/s]

Power Factorization: 69%|
| 344/500 [02:02<00:34, 4.48it/s]

Power Factorization: 69%|
| 345/500 [02:02<00:33, 4.66it/s]

Power Factorization: 69%|
| 346/500 [02:02<00:32, 4.73it/s]

Power Factorization: 69%|
| 347/500 [02:03<00:34, 4.42it/s]

Power Factorization: 70%|
| 348/500 [02:03<00:37, 4.02it/s]

Power Factorization: 70%|
| 349/500 [02:03<00:34, 4.37it/s]

Power Factorization: 70%|
| 350/500 [02:03<00:32, 4.58it/s]

Power Factorization: 70%|
| 351/500 [02:04<00:31, 4.71it/s]

Power Factorization: 70%|
| 352/500 [02:04<00:30, 4.86it/s]

Power Factorization: 71%|
| 353/500 [02:04<00:29, 4.94it/s]

Power Factorization: 71%|
| 354/500 [02:04<00:30, 4.74it/s]

Power Factorization: 71%|
| 355/500 [02:04<00:32, 4.48it/s]

Power Factorization: 71%|
| 356/500 [02:05<00:30, 4.72it/s]

Power Factorization: 71%|
| 357/500 [02:05<00:29, 4.87it/s]

Power Factorization: 72%|
| 358/500 [02:05<00:28, 5.03it/s]

Power Factorization: 72%|
| 359/500 [02:05<00:27, 5.09it/s]

Power Factorization: 72%|
| 360/500 [02:05<00:29, 4.75it/s]

Power Factorization: 72%|
| 361/500 [02:06<00:31, 4.38it/s]

Power Factorization: 72%|
| 362/500 [02:06<00:30, 4.57it/s]

Power Factorization: 73%|
| 363/500 [02:06<00:28, 4.73it/s]

Power Factorization: 73%|
| 364/500 [02:06<00:28, 4.85it/s]

Power Factorization: 73%|
| 365/500 [02:06<00:27, 4.89it/s]

Power Factorization: 73%|
| 366/500 [02:07<00:27, 4.79it/s]

Power Factorization: 73%|
| 367/500 [02:07<00:32, 4.12it/s]

Power Factorization: 74%|
| 368/500 [02:07<00:30, 4.36it/s]

Power Factorization: 74%|
| 369/500 [02:07<00:28, 4.59it/s]

Power Factorization: 74%|
| 370/500 [02:08<00:27, 4.80it/s]

Power Factorization: 74%|
| 371/500 [02:08<00:26, 4.91it/s]

Power Factorization: 74%|
| 372/500 [02:08<00:25, 4.99it/s]

Power Factorization: 75%|
| 373/500 [02:08<00:30, 4.11it/s]

Power Factorization: 75%|
| 374/500 [02:08<00:28, 4.45it/s]

Power Factorization: 75%|
| 375/500 [02:09<00:26, 4.71it/s]

Power Factorization: 75%|
| 376/500 [02:09<00:25, 4.88it/s]

Power Factorization: 75%|
| 377/500 [02:09<00:24, 5.01it/s]

Power Factorization: 76%|
| 378/500 [02:09<00:24, 5.04it/s]

Power Factorization: 76%|
| 379/500 [02:09<00:25, 4.77it/s]

Power Factorization: 76%|
| 380/500 [02:10<00:26, 4.49it/s]

Power Factorization: 76%|
| 381/500 [02:10<00:25, 4.67it/s]

Power Factorization: 76%|
| 382/500 [02:10<00:24, 4.81it/s]

Power Factorization: 77%|
| 383/500 [02:10<00:23, 4.97it/s]

Power Factorization: 77%|
| 384/500 [02:10<00:22, 5.07it/s]

Power Factorization: 77%|
| 385/500 [02:11<00:23, 4.81it/s]

Power Factorization: 77%|
| 386/500 [02:11<00:26, 4.24it/s]

Power Factorization: 77%|
| 387/500 [02:11<00:25, 4.51it/s]

Power Factorization: 78%|
| 388/500 [02:11<00:23, 4.69it/s]

Power Factorization: 78%|
| 389/500 [02:12<00:23, 4.83it/s]

Power Factorization: 78%|
| 390/500 [02:12<00:22, 4.90it/s]

Power Factorization: 78%|
| 391/500 [02:12<00:22, 4.92it/s]

Power Factorization: 78%|
| 392/500 [02:12<00:26, 4.11it/s]

Power Factorization: 79%|
| 393/500 [02:12<00:24, 4.40it/s]

Power Factorization: 79%|
| 394/500 [02:13<00:23, 4.53it/s]

Power Factorization: 79%|
| 395/500 [02:13<00:22, 4.69it/s]

Power Factorization: 79%|
| 396/500 [02:13<00:21, 4.79it/s]

Power Factorization: 79%|
| 397/500 [02:13<00:21, 4.88it/s]

Power Factorization: 80%|
| 398/500 [02:14<00:23, 4.28it/s]

Power Factorization: 80%|
| 399/500 [02:14<00:22, 4.51it/s]

Power Factorization: 80%|
| 400/500 [02:14<00:21, 4.72it/s]

Power Factorization: 80%|
| 401/500 [02:14<00:20, 4.93it/s]

Power Factorization: 80%|
| 402/500 [02:14<00:19, 5.07it/s]

Power Factorization: 81%|
| 403/500 [02:15<00:18, 5.11it/s]

Power Factorization: 81%|
| 404/500 [02:15<00:20, 4.77it/s]

Power Factorization: 81%|
| 405/500 [02:15<00:21, 4.36it/s]

Power Factorization: 81%|
| 406/500 [02:15<00:20, 4.62it/s]

Power Factorization: 81%|
| 407/500 [02:15<00:19, 4.79it/s]

Power Factorization: 82%|
| 408/500 [02:16<00:18, 4.90it/s]

Power Factorization: 82%|
| 409/500 [02:16<00:18, 5.00it/s]

Power Factorization: 82%|
| 410/500 [02:16<00:18, 4.91it/s]

Power Factorization: 82%|
| 411/500 [02:16<00:21, 4.22it/s]

Power Factorization: 82%|
| 412/500 [02:17<00:19, 4.44it/s]

Power Factorization: 83%|
| 413/500 [02:17<00:18, 4.63it/s]

Power Factorization: 83%|
| 414/500 [02:17<00:18, 4.71it/s]

Power Factorization: 83%|
| 415/500 [02:17<00:17, 4.88it/s]

Power Factorization: 83%|
| 416/500 [02:17<00:17, 4.82it/s]

Power Factorization: 83%|
| 417/500 [02:18<00:18, 4.44it/s]

Power Factorization: 84%|
| 418/500 [02:18<00:20, 4.09it/s]

Power Factorization: 84%|
| 419/500 [02:18<00:21, 3.69it/s]

Power Factorization: 84%|
| 420/500 [02:18<00:20, 3.89it/s]

Power Factorization: 84%|
| 421/500 [02:19<00:20, 3.78it/s]

Power Factorization: 84%|
| 422/500 [02:19<00:21, 3.56it/s]

Power Factorization: 85%|
| 423/500 [02:19<00:23, 3.21it/s]

Power Factorization: 85%|
| 424/500 [02:20<00:26, 2.90it/s]

Power Factorization: 85%|
| 425/500 [02:20<00:28, 2.61it/s]

Power Factorization: 85%|
| 426/500 [02:21<00:28, 2.58it/s]

Power Factorization: 85%|
| 427/500 [02:21<00:26, 2.79it/s]

Power Factorization: 86%|
| 428/500 [02:21<00:23, 3.11it/s]

Power Factorization: 86%|
| 429/500 [02:21<00:21, 3.35it/s]

Power Factorization: 86%|
| 430/500 [02:22<00:19, 3.66it/s]

Power Factorization: 86%|
| 431/500 [02:22<00:17, 3.87it/s]

Power Factorization: 86%|
| 432/500 [02:22<00:19, 3.43it/s]

Power Factorization: 87%|
| 433/500 [02:23<00:18, 3.62it/s]

Power Factorization: 87%|
| 434/500 [02:23<00:17, 3.87it/s]

Power Factorization: 87%|
| 435/500 [02:23<00:16, 4.03it/s]

Power Factorization: 87%|
| 436/500 [02:23<00:15, 4.13it/s]

Power Factorization: 87%|
| 437/500 [02:23<00:14, 4.26it/s]

Power Factorization: 88%|
| 438/500 [02:24<00:15, 4.06it/s]

Power Factorization: 88%|
| 439/500 [02:24<00:16, 3.77it/s]

Power Factorization: 88%|
| 440/500 [02:24<00:15, 3.94it/s]

Power Factorization: 88%|
| 441/500 [02:24<00:14, 4.14it/s]

Power Factorization: 88%|
| 442/500 [02:25<00:13, 4.24it/s]

Power Factorization: 89%|
| 443/500 [02:25<00:12, 4.40it/s]

Power Factorization: 89%|
| 444/500 [02:25<00:12, 4.42it/s]

Power Factorization: 89%|
| 445/500 [02:25<00:14, 3.91it/s]

Power Factorization: 89%|
| 446/500 [02:26<00:13, 4.01it/s]

Power Factorization: 89%|
| 447/500 [02:26<00:12, 4.23it/s]

Power Factorization: 90%|
| 448/500 [02:26<00:12, 4.31it/s]

Power Factorization: 90%|
| 449/500 [02:26<00:11, 4.30it/s]

Power Factorization: 90%|
| 450/500 [02:27<00:11, 4.41it/s]

Power Factorization: 90%|
| 451/500 [02:27<00:11, 4.14it/s]

Power Factorization: 90%|
| 452/500 [02:27<00:12, 3.83it/s]

Power Factorization: 91%|
| 453/500 [02:27<00:12, 3.89it/s]

Power Factorization: 91%|
| 454/500 [02:28<00:11, 4.05it/s]

Power Factorization: 91%|
| 455/500 [02:28<00:10, 4.20it/s]

Power Factorization: 91%|
| 456/500 [02:28<00:10, 4.28it/s]

Power Factorization: 91%|
| 457/500 [02:28<00:09, 4.30it/s]

Power Factorization: 92%|
| 458/500 [02:29<00:10, 4.00it/s]

Power Factorization: 92%| 459/500
[02:29<00:10, 3.85it/s]

Power Factorization: 92%| 460/500
[02:29<00:09, 4.04it/s]

Power Factorization:
92%| | 461/500
[02:29<00:09, 4.17it/s]

Power Factorization:
92%| | 462/500
[02:29<00:08, 4.32it/s]

Power Factorization:
93%| | 463/500
[02:30<00:08, 4.30it/s]

Power Factorization:
93%| | 464/500
[02:30<00:08, 4.43it/s]

Power Factorization:
93%| | 465/500
[02:30<00:09, 3.81it/s]

Power Factorization:
93%| | 466/500
[02:30<00:08, 4.08it/s]

Power Factorization:
93%| | 467/500
[02:31<00:07, 4.20it/s]

Power Factorization:
94%| | 468/500
[02:31<00:08, 3.85it/s]

Power Factorization:
94%| | 469/500
[02:31<00:07, 3.88it/s]

Power Factorization:
94%| | 470/500
[02:32<00:07, 3.82it/s]

Power Factorization:
94%| | 471/500
[02:32<00:08, 3.62it/s]

Power Factorization:
94%| | 472/500
[02:32<00:07, 3.51it/s]

Power Factorization:	
95%	473/500
[02:32<00:07, 3.65it/s]	
Power Factorization:	
95%	474/500
[02:33<00:06, 3.90it/s]	
Power Factorization:	
95%	475/500
[02:33<00:06, 4.04it/s]	
Power Factorization:	
95%	476/500
[02:33<00:05, 4.26it/s]	
Power Factorization:	
95%	477/500
[02:33<00:05, 4.18it/s]	
Power Factorization:	
96%	478/500
[02:34<00:06, 3.52it/s]	
Power Factorization:	
96%	479/500
[02:34<00:05, 3.70it/s]	
Power Factorization:	
96%	480/500
[02:34<00:05, 3.98it/s]	
Power Factorization:	
96%	481/500
[02:34<00:04, 4.18it/s]	
Power Factorization:	
96%	482/500
[02:35<00:04, 4.37it/s]	
Power Factorization:	
97%	483/500
[02:35<00:03, 4.54it/s]	
Power Factorization:	
97%	484/500
[02:35<00:03, 4.31it/s]	

Power Factorization:	
97%	485/500
[02:35<00:03, 3.93it/s]	
Power Factorization:	
97%	486/500
[02:36<00:03, 4.21it/s]	
Power Factorization:	
97%	487/500
[02:36<00:02, 4.41it/s]	
Power Factorization:	
98%	488/500
[02:36<00:02, 4.52it/s]	
Power Factorization:	
98%	489/500
[02:36<00:02, 4.57it/s]	
Power Factorization:	
98%	490/500
[02:36<00:02, 4.49it/s]	
Power Factorization:	
98%	491/500
[02:37<00:02, 4.07it/s]	
Power Factorization:	
98%	492/500
[02:37<00:01, 4.33it/s]	
Power Factorization:	
99%	493/500
[02:37<00:01, 4.52it/s]	
Power Factorization:	
99%	494/500
[02:37<00:01, 4.68it/s]	
Power Factorization:	
99%	495/500
[02:37<00:01, 4.79it/s]	
Power Factorization:	
99%	496/500
[02:38<00:00, 4.84it/s]	

Power Factorization: 99%| | 497/500
[02:38<00:00, 4.59it/s]

Power Factorization: 100%| | 498/500
[02:38<00:00, 4.09it/s]

Power Factorization: 100%| | 499/500
[02:38<00:00, 4.31it/s]

Power Factorization: 100%| | 500/500
[02:39<00:00, 3.14it/s]

Cross Validation: 20%|
| 1/5 [02:39<10:36, 159.17s/it]

Power Factorization: 0%|
| 0/500 [00:00<?, ?it/s]

Power Factorization: 0%|
| 1/500 [00:00<01:43, 4.84it/s]

Power Factorization: 0%|
| 2/500 [00:00<01:44, 4.77it/s]

Power Factorization: 1%|
| 3/500 [00:00<01:45, 4.69it/s]

Power Factorization: 1%|
| 4/500 [00:00<02:09, 3.84it/s]

Power Factorization: 1%|
| 5/500 [00:01<01:56, 4.25it/s]

Power Factorization: 1%|
| 6/500 [00:01<01:49, 4.53it/s]

Power Factorization: 1%|
| 7/500 [00:01<01:45, 4.69it/s]

Power Factorization: 2%|
| 8/500 [00:01<01:42, 4.81it/s]

Power Factorization: 2%|
| 9/500 [00:01<01:41, 4.85it/s]

Power Factorization: 2%|
| 10/500 [00:02<01:58, 4.13it/s]

Power Factorization: 2%|
| 11/500 [00:02<01:52, 4.33it/s]

Power Factorization: 2%|
| 12/500 [00:02<01:46, 4.56it/s]

Power Factorization: 3%|
| 13/500 [00:02<01:42, 4.75it/s]

Power Factorization: 3%|
| 14/500 [00:03<01:40, 4.84it/s]

Power Factorization: 3%|
| 15/500 [00:03<01:38, 4.91it/s]

Power Factorization: 3%|
| 16/500 [00:03<01:46, 4.55it/s]

Power Factorization: 3%|
| 17/500 [00:03<01:51, 4.33it/s]

Power Factorization: 4%|
| 18/500 [00:03<01:46, 4.54it/s]

Power Factorization: 4%|
| 19/500 [00:04<01:42, 4.68it/s]

Power Factorization: 4%|
| 20/500 [00:04<01:40, 4.77it/s]

Power Factorization: 4%|
| 21/500 [00:04<01:39, 4.83it/s]

Power Factorization: 4%|
| 22/500 [00:04<01:40, 4.75it/s]

Power Factorization: 5%|
| 23/500 [00:05<01:58, 4.03it/s]

Power Factorization: 5%|
| 24/500 [00:05<01:50, 4.31it/s]

Power Factorization: 5%|
| 25/500 [00:05<01:44, 4.54it/s]

Power Factorization: 5%|
| 26/500 [00:05<01:39, 4.74it/s]

Power Factorization: 5%|
| 27/500 [00:05<01:37, 4.86it/s]

Power Factorization: 6%|
| 28/500 [00:06<01:36, 4.91it/s]

Power Factorization: 6%|
| 29/500 [00:06<01:47, 4.40it/s]

Power Factorization: 6%|
| 30/500 [00:06<01:44, 4.49it/s]

Power Factorization: 6%|
| 31/500 [00:06<01:40, 4.66it/s]

Power Factorization: 6%|
| 32/500 [00:06<01:37, 4.78it/s]

Power Factorization: 7%|
| 33/500 [00:07<01:35, 4.91it/s]

Power Factorization: 7%|
| 34/500 [00:07<01:34, 4.96it/s]

Power Factorization: 7%|
| 35/500 [00:07<01:39, 4.67it/s]

Power Factorization: 7%|
| 36/500 [00:07<01:47, 4.30it/s]

Power Factorization: 7%|
| 37/500 [00:08<01:44, 4.42it/s]

Power Factorization: 8%|
| 38/500 [00:08<01:40, 4.58it/s]

Power Factorization: 8%|
| 39/500 [00:08<01:38, 4.68it/s]

Power Factorization: 8%|
| 40/500 [00:08<01:36, 4.79it/s]

Power Factorization: 8%|
| 41/500 [00:08<01:35, 4.80it/s]

Power Factorization: 8%|
| 42/500 [00:09<01:55, 3.97it/s]

Power Factorization: 9%|
| 43/500 [00:09<01:48, 4.22it/s]

Power Factorization: 9%|
| 44/500 [00:09<01:42, 4.46it/s]

Power Factorization: 9%|
| 45/500 [00:09<01:37, 4.66it/s]

Power Factorization: 9%|
| 46/500 [00:10<01:35, 4.76it/s]

Power Factorization: 9%|
| 47/500 [00:10<01:36, 4.72it/s]

Power Factorization: 10%|
| 48/500 [00:10<01:38, 4.60it/s]

Power Factorization: 10%|
| 49/500 [00:10<01:46, 4.23it/s]

Power Factorization: 10%|
| 50/500 [00:10<01:40, 4.47it/s]

Power Factorization: 10%|
| 51/500 [00:11<01:36, 4.64it/s]

Power Factorization: 96%| | 480/500 [01:38<00:05, 3.46it/s]

Power Factorization: 96%| | 481/500 [01:38<00:05, 3.58it/s]

Power Factorization: 96%| | 482/500 [01:38<00:04, 3.87it/s]

Power Factorization: 97%| | 483/500 [01:38<00:04, 4.11it/s]

Power Factorization: 97%| | 484/500 [01:39<00:03, 4.32it/s]

Power Factorization: 97%| | 485/500 [01:39<00:03, 4.50it/s]

Power Factorization: 97%| | 486/500 [01:39<00:03, 4.65it/s]

Power Factorization: 97%| | 487/500 [01:39<00:02, 4.80it/s]

Power Factorization: 98%| | 488/500 [01:39<00:02, 4.86it/s]

Power Factorization: 98%	489/500 [01:40<00:02, 4.85it/s]
Power Factorization: 98%	490/500 [01:40<00:02, 4.79it/s]
Power Factorization: 98%	491/500 [01:40<00:01, 4.79it/s]
Power Factorization: 98%	492/500 [01:40<00:01, 4.87it/s]
Power Factorization: 99%	493/500 [01:40<00:01, 4.94it/s]
Power Factorization: 99%	494/500 [01:41<00:01, 4.99it/s]
Power Factorization: 99%	495/500 [01:41<00:00, 5.07it/s]
Power Factorization: 99%	496/500 [01:41<00:00, 5.08it/s]
Power Factorization: 99%	497/500 [01:41<00:00, 5.13it/s]
Power Factorization: 100%	498/500 [01:41<00:00, 5.21it/s]
Power Factorization: 100%	499/500 [01:42<00:00, 5.14it/s]
Power Factorization: 100%	500/500 [01:42<00:00, 4.89it/s]
Cross Validation: 20%	1/5 [01:42<06:49, 102.34s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:40, 4.95it/s]
Power Factorization: 0%	2/500 [00:00<01:40, 4.97it/s]
Power Factorization: 1%	3/500 [00:00<01:38, 5.05it/s]
Power Factorization: 1%	4/500 [00:00<01:38, 5.01it/s]
Power Factorization: 1%	5/500 [00:00<01:36, 5.12it/s]
Power Factorization: 1%	6/500 [00:01<01:35, 5.15it/s]
Power Factorization: 1%	7/500 [00:01<01:36, 5.10it/s]
Power Factorization: 2%	8/500 [00:01<01:35, 5.16it/s]
Power Factorization: 2%	9/500 [00:01<01:33, 5.22it/s]
Power Factorization: 2%	10/500 [00:01<01:33, 5.22it/s]

Power Factorization:	2%	11/500	[00:02<01:34,	5.19it/s]
Power Factorization:	2%	12/500	[00:02<01:36,	5.08it/s]
Power Factorization:	3%	13/500	[00:02<01:37,	4.99it/s]
Power Factorization:	3%	14/500	[00:02<01:38,	4.93it/s]
Power Factorization:	3%	15/500	[00:02<01:38,	4.90it/s]
Power Factorization:	3%	16/500	[00:03<01:37,	4.95it/s]
Power Factorization:	3%	17/500	[00:03<01:35,	5.07it/s]
Power Factorization:	4%	18/500	[00:03<01:34,	5.12it/s]
Power Factorization:	4%	19/500	[00:03<01:33,	5.12it/s]
Power Factorization:	4%	20/500	[00:03<01:34,	5.10it/s]
Power Factorization:	4%	21/500	[00:04<01:33,	5.14it/s]
Power Factorization:	4%	22/500	[00:04<01:33,	5.13it/s]
Power Factorization:	5%	23/500	[00:04<01:31,	5.19it/s]
Power Factorization:	5%	24/500	[00:04<01:31,	5.21it/s]
Power Factorization:	5%	25/500	[00:04<01:32,	5.12it/s]
Power Factorization:	5%	26/500	[00:05<01:33,	5.06it/s]
Power Factorization:	5%	27/500	[00:05<01:33,	5.05it/s]
Power Factorization:	6%	28/500	[00:05<01:31,	5.14it/s]
Power Factorization:	6%	29/500	[00:05<01:31,	5.15it/s]
Power Factorization:	6%	30/500	[00:05<01:30,	5.22it/s]
Power Factorization:	6%	31/500	[00:06<01:31,	5.15it/s]
Power Factorization:	6%	32/500	[00:06<01:33,	4.98it/s]
Power Factorization:	7%	33/500	[00:06<01:35,	4.90it/s]
Power Factorization:	7%	34/500	[00:06<01:34,	4.92it/s]

Power Factorization:	7%	35/500	[00:06<01:32,	5.05it/s]
Power Factorization:	7%	36/500	[00:07<01:29,	5.17it/s]
Power Factorization:	7%	37/500	[00:07<01:28,	5.20it/s]
Power Factorization:	8%	38/500	[00:07<01:29,	5.18it/s]
Power Factorization:	8%	39/500	[00:07<01:27,	5.26it/s]
Power Factorization:	8%	40/500	[00:07<01:27,	5.27it/s]
Power Factorization:	8%	41/500	[00:08<01:27,	5.24it/s]
Power Factorization:	8%	42/500	[00:08<01:27,	5.26it/s]
Power Factorization:	9%	43/500	[00:08<01:28,	5.18it/s]
Power Factorization:	9%	44/500	[00:08<01:28,	5.15it/s]
Power Factorization:	9%	45/500	[00:08<01:29,	5.06it/s]
Power Factorization:	9%	46/500	[00:09<01:31,	4.97it/s]
Power Factorization:	9%	47/500	[00:09<01:30,	5.03it/s]
Power Factorization:	10%	48/500	[00:09<01:29,	5.06it/s]
Power Factorization:	10%	49/500	[00:09<01:28,	5.08it/s]
Power Factorization:	10%	50/500	[00:09<01:28,	5.10it/s]
Power Factorization:	10%	51/500	[00:09<01:27,	5.11it/s]
Power Factorization:	10%	52/500	[00:10<01:27,	5.12it/s]
Power Factorization:	11%	53/500	[00:10<01:27,	5.13it/s]
Power Factorization:	11%	54/500	[00:10<01:27,	5.12it/s]
Power Factorization:	11%	55/500	[00:10<01:26,	5.13it/s]
Power Factorization:	11%	56/500	[00:10<01:26,	5.10it/s]
Power Factorization:	11%	57/500	[00:11<01:27,	5.04it/s]
Power Factorization:	12%	58/500	[00:11<01:28,	4.97it/s]

Power Factorization: 12%	59/500 [00:11<01:29, 4.92it/s]
Power Factorization: 12%	60/500 [00:11<01:29, 4.93it/s]
Power Factorization: 12%	61/500 [00:11<01:27, 5.00it/s]
Power Factorization: 12%	62/500 [00:12<01:26, 5.04it/s]
Power Factorization: 13%	63/500 [00:12<01:26, 5.06it/s]
Power Factorization: 13%	64/500 [00:12<01:25, 5.10it/s]
Power Factorization: 13%	65/500 [00:12<01:28, 4.92it/s]
Power Factorization: 13%	66/500 [00:12<01:28, 4.90it/s]
Power Factorization: 13%	67/500 [00:13<01:28, 4.88it/s]
Power Factorization: 14%	68/500 [00:13<01:28, 4.88it/s]
Power Factorization: 14%	69/500 [00:13<01:28, 4.88it/s]
Power Factorization: 14%	70/500 [00:13<01:27, 4.93it/s]
Power Factorization: 14%	71/500 [00:14<01:25, 5.01it/s]
Power Factorization: 14%	72/500 [00:14<01:24, 5.09it/s]
Power Factorization: 15%	73/500 [00:14<01:23, 5.09it/s]
Power Factorization: 15%	74/500 [00:14<01:22, 5.14it/s]
Power Factorization: 15%	75/500 [00:14<01:23, 5.12it/s]
Power Factorization: 15%	76/500 [00:14<01:22, 5.16it/s]
Power Factorization: 15%	77/500 [00:15<01:24, 5.01it/s]
Power Factorization: 16%	78/500 [00:15<01:34, 4.47it/s]
Power Factorization: 16%	79/500 [00:15<01:49, 3.85it/s]
Power Factorization: 16%	80/500 [00:16<01:48, 3.86it/s]
Power Factorization: 16%	81/500 [00:16<01:44, 4.01it/s]
Power Factorization: 16%	82/500 [00:16<01:39, 4.22it/s]

Power Factorization: 17%	83/500 [00:16<01:33, 4.44it/s]
Power Factorization: 17%	84/500 [00:16<01:29, 4.64it/s]
Power Factorization: 17%	85/500 [00:17<01:26, 4.80it/s]
Power Factorization: 17%	86/500 [00:17<01:23, 4.93it/s]
Power Factorization: 17%	87/500 [00:17<01:22, 4.99it/s]
Power Factorization: 18%	88/500 [00:17<01:21, 5.03it/s]
Power Factorization: 18%	89/500 [00:17<01:21, 5.07it/s]
Power Factorization: 18%	90/500 [00:18<01:22, 5.00it/s]
Power Factorization: 18%	91/500 [00:18<01:22, 4.98it/s]
Power Factorization: 18%	92/500 [00:18<01:21, 5.00it/s]
Power Factorization: 19%	93/500 [00:18<01:20, 5.09it/s]
Power Factorization: 19%	94/500 [00:18<01:19, 5.13it/s]
Power Factorization: 19%	95/500 [00:19<01:19, 5.11it/s]
Power Factorization: 19%	96/500 [00:19<01:18, 5.13it/s]
Power Factorization: 19%	97/500 [00:19<01:19, 5.07it/s]
Power Factorization: 20%	98/500 [00:19<01:20, 5.01it/s]
Power Factorization: 20%	99/500 [00:19<01:22, 4.83it/s]
Power Factorization: 20%	100/500 [00:20<01:25, 4.68it/s]
Power Factorization: 20%	101/500 [00:20<01:23, 4.76it/s]
Power Factorization: 20%	102/500 [00:20<01:23, 4.79it/s]
Power Factorization: 21%	103/500 [00:20<01:21, 4.87it/s]
Power Factorization: 21%	104/500 [00:20<01:20, 4.91it/s]
Power Factorization: 21%	105/500 [00:21<01:19, 4.97it/s]
Power Factorization: 21%	106/500 [00:21<01:17, 5.07it/s]

Power Factorization: 21%	107/500 [00:21<01:17, 5.05it/s]
Power Factorization: 22%	108/500 [00:21<01:16, 5.10it/s]
Power Factorization: 22%	109/500 [00:21<01:16, 5.10it/s]
Power Factorization: 22%	110/500 [00:22<01:16, 5.09it/s]
Power Factorization: 22%	111/500 [00:22<01:15, 5.15it/s]
Power Factorization: 22%	112/500 [00:22<01:17, 5.04it/s]
Power Factorization: 23%	113/500 [00:22<01:16, 5.08it/s]
Power Factorization: 23%	114/500 [00:22<01:15, 5.10it/s]
Power Factorization: 23%	115/500 [00:23<01:15, 5.09it/s]
Power Factorization: 23%	116/500 [00:23<01:16, 5.04it/s]
Power Factorization: 23%	117/500 [00:23<01:16, 4.99it/s]
Power Factorization: 24%	118/500 [00:23<01:16, 4.97it/s]
Power Factorization: 24%	119/500 [00:23<01:17, 4.91it/s]
Power Factorization: 24%	120/500 [00:24<01:18, 4.86it/s]
Power Factorization: 24%	121/500 [00:24<01:18, 4.84it/s]
Power Factorization: 24%	122/500 [00:24<01:27, 4.34it/s]
Power Factorization: 25%	123/500 [00:24<01:24, 4.47it/s]
Power Factorization: 25%	124/500 [00:25<01:42, 3.68it/s]
Power Factorization: 25%	125/500 [00:25<01:40, 3.73it/s]
Power Factorization: 25%	126/500 [00:25<01:35, 3.90it/s]
Power Factorization: 25%	127/500 [00:25<01:30, 4.11it/s]
Power Factorization: 26%	128/500 [00:26<01:26, 4.31it/s]
Power Factorization: 26%	129/500 [00:26<01:24, 4.38it/s]
Power Factorization: 26%	130/500 [00:26<01:26, 4.29it/s]

Power Factorization: 26%	131/500 [00:26<01:27, 4.23it/s]
Power Factorization: 26%	132/500 [00:27<01:29, 4.11it/s]
Power Factorization: 27%	133/500 [00:27<01:29, 4.11it/s]
Power Factorization: 27%	134/500 [00:27<01:29, 4.07it/s]
Power Factorization: 27%	135/500 [00:27<01:34, 3.87it/s]
Power Factorization: 27%	136/500 [00:28<01:31, 3.97it/s]
Power Factorization: 27%	137/500 [00:28<01:31, 3.97it/s]
Power Factorization: 28%	138/500 [00:28<01:31, 3.94it/s]
Power Factorization: 28%	139/500 [00:28<01:32, 3.88it/s]
Power Factorization: 28%	140/500 [00:29<01:37, 3.71it/s]
Power Factorization: 28%	141/500 [00:29<01:35, 3.77it/s]
Power Factorization: 28%	142/500 [00:29<01:37, 3.65it/s]
Power Factorization: 29%	143/500 [00:29<01:37, 3.68it/s]
Power Factorization: 29%	144/500 [00:30<01:35, 3.71it/s]
Power Factorization: 29%	145/500 [00:30<01:36, 3.66it/s]
Power Factorization: 29%	146/500 [00:30<01:37, 3.62it/s]
Power Factorization: 29%	147/500 [00:31<01:34, 3.72it/s]
Power Factorization: 30%	148/500 [00:31<01:32, 3.80it/s]
Power Factorization: 30%	149/500 [00:31<01:31, 3.83it/s]
Power Factorization: 30%	150/500 [00:31<01:29, 3.89it/s]
Power Factorization: 30%	151/500 [00:32<01:29, 3.92it/s]
Power Factorization: 30%	152/500 [00:32<01:28, 3.95it/s]
Power Factorization: 31%	153/500 [00:32<01:27, 3.98it/s]
Power Factorization: 31%	154/500 [00:32<01:26, 3.98it/s]

Power Factorization: 31%	155/500 [00:33<01:25, 4.02it/s]
Power Factorization: 31%	156/500 [00:33<01:24, 4.07it/s]
Power Factorization: 31%	157/500 [00:33<01:24, 4.06it/s]
Power Factorization: 32%	158/500 [00:33<01:27, 3.93it/s]
Power Factorization: 32%	159/500 [00:34<01:29, 3.82it/s]
Power Factorization: 32%	160/500 [00:34<01:27, 3.90it/s]
Power Factorization: 32%	161/500 [00:34<01:26, 3.91it/s]
Power Factorization: 32%	162/500 [00:34<01:24, 3.98it/s]
Power Factorization: 33%	163/500 [00:35<01:27, 3.84it/s]
Power Factorization: 33%	164/500 [00:35<01:25, 3.92it/s]
Power Factorization: 33%	165/500 [00:35<01:34, 3.54it/s]
Power Factorization: 33%	166/500 [00:35<01:36, 3.47it/s]
Power Factorization: 33%	167/500 [00:36<01:32, 3.61it/s]
Power Factorization: 34%	168/500 [00:36<01:28, 3.74it/s]
Power Factorization: 34%	169/500 [00:36<01:24, 3.92it/s]
Power Factorization: 34%	170/500 [00:36<01:20, 4.09it/s]
Power Factorization: 34%	171/500 [00:37<01:20, 4.09it/s]
Power Factorization: 34%	172/500 [00:37<01:18, 4.18it/s]
Power Factorization: 35%	173/500 [00:37<01:16, 4.26it/s]
Power Factorization: 35%	174/500 [00:37<01:15, 4.34it/s]
Power Factorization: 35%	175/500 [00:38<01:13, 4.41it/s]
Power Factorization: 35%	176/500 [00:38<01:13, 4.39it/s]
Power Factorization: 35%	177/500 [00:38<01:13, 4.41it/s]
Power Factorization: 36%	178/500 [00:38<01:11, 4.53it/s]

Power Factorization: 36%	179/500 [00:38<01:07, 4.73it/s]
Power Factorization: 36%	180/500 [00:39<01:05, 4.92it/s]
Power Factorization: 36%	181/500 [00:39<01:03, 5.01it/s]
Power Factorization: 36%	182/500 [00:39<01:02, 5.07it/s]
Power Factorization: 37%	183/500 [00:39<01:01, 5.16it/s]
Power Factorization: 37%	184/500 [00:39<01:01, 5.16it/s]
Power Factorization: 37%	185/500 [00:40<01:03, 4.95it/s]
Power Factorization: 37%	186/500 [00:40<01:03, 4.95it/s]
Power Factorization: 37%	187/500 [00:40<01:02, 5.02it/s]
Power Factorization: 38%	188/500 [00:40<01:01, 5.10it/s]
Power Factorization: 38%	189/500 [00:40<00:59, 5.19it/s]
Power Factorization: 38%	190/500 [00:41<00:58, 5.26it/s]
Power Factorization: 38%	191/500 [00:41<00:58, 5.29it/s]
Power Factorization: 38%	192/500 [00:41<00:57, 5.34it/s]
Power Factorization: 39%	193/500 [00:41<00:57, 5.34it/s]
Power Factorization: 39%	194/500 [00:41<00:57, 5.32it/s]
Power Factorization: 39%	195/500 [00:41<00:57, 5.33it/s]
Power Factorization: 39%	196/500 [00:42<00:56, 5.34it/s]
Power Factorization: 39%	197/500 [00:42<00:56, 5.32it/s]
Power Factorization: 40%	198/500 [00:42<00:57, 5.25it/s]
Power Factorization: 40%	199/500 [00:42<00:56, 5.30it/s]
Power Factorization: 40%	200/500 [00:42<00:57, 5.24it/s]
Power Factorization: 40%	201/500 [00:43<00:57, 5.17it/s]
Power Factorization: 40%	202/500 [00:43<00:57, 5.21it/s]

Power Factorization: 41%	203/500 [00:43<00:56, 5.24it/s]
Power Factorization: 41%	204/500 [00:43<00:56, 5.24it/s]
Power Factorization: 41%	205/500 [00:43<00:56, 5.22it/s]
Power Factorization: 41%	206/500 [00:44<00:56, 5.24it/s]
Power Factorization: 41%	207/500 [00:44<00:59, 4.91it/s]
Power Factorization: 42%	208/500 [00:44<00:59, 4.92it/s]
Power Factorization: 42%	209/500 [00:44<00:59, 4.92it/s]
Power Factorization: 42%	210/500 [00:44<00:58, 4.92it/s]
Power Factorization: 42%	211/500 [00:45<00:58, 4.95it/s]
Power Factorization: 42%	212/500 [00:45<00:56, 5.07it/s]
Power Factorization: 43%	213/500 [00:45<00:55, 5.15it/s]
Power Factorization: 43%	214/500 [00:45<00:54, 5.22it/s]
Power Factorization: 43%	215/500 [00:45<00:54, 5.24it/s]
Power Factorization: 43%	216/500 [00:46<00:53, 5.28it/s]
Power Factorization: 43%	217/500 [00:46<00:53, 5.34it/s]
Power Factorization: 44%	218/500 [00:46<00:52, 5.36it/s]
Power Factorization: 44%	219/500 [00:46<00:52, 5.34it/s]
Power Factorization: 44%	220/500 [00:46<00:51, 5.39it/s]
Power Factorization: 44%	221/500 [00:46<00:52, 5.33it/s]
Power Factorization: 44%	222/500 [00:47<00:52, 5.34it/s]
Power Factorization: 45%	223/500 [00:47<00:51, 5.36it/s]
Power Factorization: 45%	224/500 [00:47<00:51, 5.33it/s]
Power Factorization: 45%	225/500 [00:47<00:52, 5.26it/s]
Power Factorization: 45%	226/500 [00:47<00:52, 5.18it/s]

Power Factorization: 45%	227/500 [00:48<00:52, 5.21it/s]
Power Factorization: 46%	228/500 [00:48<00:51, 5.27it/s]
Power Factorization: 46%	229/500 [00:48<00:50, 5.32it/s]
Power Factorization: 46%	230/500 [00:48<00:50, 5.34it/s]
Power Factorization: 46%	231/500 [00:48<00:50, 5.31it/s]
Power Factorization: 46%	232/500 [00:49<00:50, 5.35it/s]
Power Factorization: 47%	233/500 [00:49<00:49, 5.36it/s]
Power Factorization: 47%	234/500 [00:49<00:49, 5.36it/s]
Power Factorization: 47%	235/500 [00:49<00:49, 5.32it/s]
Power Factorization: 47%	236/500 [00:49<00:49, 5.34it/s]
Power Factorization: 47%	237/500 [00:49<00:49, 5.34it/s]
Power Factorization: 48%	238/500 [00:50<00:48, 5.36it/s]
Power Factorization: 48%	239/500 [00:50<00:49, 5.22it/s]
Power Factorization: 48%	240/500 [00:50<00:49, 5.20it/s]
Power Factorization: 48%	241/500 [00:50<00:49, 5.23it/s]
Power Factorization: 48%	242/500 [00:50<00:49, 5.17it/s]
Power Factorization: 49%	243/500 [00:51<00:49, 5.17it/s]
Power Factorization: 49%	244/500 [00:51<00:48, 5.26it/s]
Power Factorization: 49%	245/500 [00:51<00:48, 5.26it/s]
Power Factorization: 49%	246/500 [00:51<00:48, 5.28it/s]
Power Factorization: 49%	247/500 [00:51<00:47, 5.31it/s]
Power Factorization: 50%	248/500 [00:52<00:46, 5.40it/s]
Power Factorization: 50%	249/500 [00:52<00:46, 5.43it/s]
Power Factorization: 50%	250/500 [00:52<00:46, 5.38it/s]

Power Factorization: 50%	251/500 [00:52<00:47, 5.23it/s]
Power Factorization: 50%	252/500 [00:52<00:47, 5.22it/s]
Power Factorization: 51%	253/500 [00:53<00:47, 5.22it/s]
Power Factorization: 51%	254/500 [00:53<00:46, 5.28it/s]
Power Factorization: 51%	255/500 [00:53<00:45, 5.33it/s]
Power Factorization: 51%	256/500 [00:53<00:45, 5.35it/s]
Power Factorization: 51%	257/500 [00:53<00:45, 5.33it/s]
Power Factorization: 52%	258/500 [00:53<00:45, 5.35it/s]
Power Factorization: 52%	259/500 [00:54<00:45, 5.35it/s]
Power Factorization: 52%	260/500 [00:54<00:44, 5.37it/s]
Power Factorization: 52%	261/500 [00:54<00:44, 5.38it/s]
Power Factorization: 52%	262/500 [00:54<00:44, 5.39it/s]
Power Factorization: 53%	263/500 [00:54<00:43, 5.39it/s]
Power Factorization: 53%	264/500 [00:55<00:43, 5.38it/s]
Power Factorization: 53%	265/500 [00:55<00:43, 5.37it/s]
Power Factorization: 53%	266/500 [00:55<00:43, 5.39it/s]
Power Factorization: 53%	267/500 [00:55<00:43, 5.40it/s]
Power Factorization: 54%	268/500 [00:55<00:42, 5.43it/s]
Power Factorization: 54%	269/500 [00:55<00:42, 5.47it/s]
Power Factorization: 54%	270/500 [00:56<00:41, 5.52it/s]
Power Factorization: 54%	271/500 [00:56<00:41, 5.55it/s]
Power Factorization: 54%	272/500 [00:56<00:40, 5.58it/s]
Power Factorization: 55%	273/500 [00:56<00:40, 5.60it/s]
Power Factorization: 55%	274/500 [00:56<00:40, 5.55it/s]

Power Factorization: 55%	275/500 [00:57<00:40, 5.55it/s]
Power Factorization: 55%	276/500 [00:57<00:40, 5.54it/s]
Power Factorization: 55%	277/500 [00:57<00:40, 5.47it/s]
Power Factorization: 56%	278/500 [00:57<00:40, 5.49it/s]
Power Factorization: 56%	279/500 [00:57<00:39, 5.53it/s]
Power Factorization: 56%	280/500 [00:57<00:40, 5.50it/s]
Power Factorization: 56%	281/500 [00:58<00:40, 5.45it/s]
Power Factorization: 56%	282/500 [00:58<00:40, 5.40it/s]
Power Factorization: 57%	283/500 [00:58<00:40, 5.40it/s]
Power Factorization: 57%	284/500 [00:58<00:39, 5.41it/s]
Power Factorization: 57%	285/500 [00:58<00:39, 5.40it/s]
Power Factorization: 57%	286/500 [00:59<00:39, 5.39it/s]
Power Factorization: 57%	287/500 [00:59<00:39, 5.43it/s]
Power Factorization: 58%	288/500 [00:59<00:39, 5.42it/s]
Power Factorization: 58%	289/500 [00:59<00:40, 5.23it/s]
Power Factorization: 58%	290/500 [00:59<00:40, 5.18it/s]
Power Factorization: 58%	291/500 [01:00<00:41, 5.09it/s]
Power Factorization: 58%	292/500 [01:00<00:40, 5.16it/s]
Power Factorization: 59%	293/500 [01:00<00:39, 5.20it/s]
Power Factorization: 59%	294/500 [01:00<00:39, 5.17it/s]
Power Factorization: 59%	295/500 [01:00<00:39, 5.24it/s]
Power Factorization: 59%	296/500 [01:00<00:38, 5.25it/s]
Power Factorization: 59%	297/500 [01:01<00:38, 5.30it/s]
Power Factorization: 60%	298/500 [01:01<00:37, 5.35it/s]

Power Factorization: 60%	299/500 [01:01<00:37, 5.34it/s]
Power Factorization: 60%	300/500 [01:01<00:37, 5.34it/s]
Power Factorization: 60%	301/500 [01:01<00:37, 5.31it/s]
Power Factorization: 60%	302/500 [01:02<00:36, 5.35it/s]
Power Factorization: 61%	303/500 [01:02<00:36, 5.35it/s]
Power Factorization: 61%	304/500 [01:02<00:36, 5.35it/s]
Power Factorization: 61%	305/500 [01:02<00:36, 5.30it/s]
Power Factorization: 61%	306/500 [01:02<00:36, 5.33it/s]
Power Factorization: 61%	307/500 [01:03<00:35, 5.37it/s]
Power Factorization: 62%	308/500 [01:03<00:36, 5.32it/s]
Power Factorization: 62%	309/500 [01:03<00:35, 5.34it/s]
Power Factorization: 62%	310/500 [01:03<00:35, 5.32it/s]
Power Factorization: 62%	311/500 [01:03<00:36, 5.25it/s]
Power Factorization: 62%	312/500 [01:04<00:36, 5.14it/s]
Power Factorization: 63%	313/500 [01:04<00:36, 5.14it/s]
Power Factorization: 63%	314/500 [01:04<00:35, 5.17it/s]
Power Factorization: 63%	315/500 [01:04<00:35, 5.22it/s]
Power Factorization: 63%	316/500 [01:04<00:35, 5.21it/s]
Power Factorization: 63%	317/500 [01:04<00:34, 5.25it/s]
Power Factorization: 64%	318/500 [01:05<00:34, 5.31it/s]
Power Factorization: 64%	319/500 [01:05<00:34, 5.28it/s]
Power Factorization: 64%	320/500 [01:05<00:33, 5.36it/s]
Power Factorization: 64%	321/500 [01:05<00:33, 5.41it/s]
Power Factorization: 64%	322/500 [01:05<00:33, 5.38it/s]

Power Factorization: 65%	323/500 [01:06<00:33,	5.34it/s]
Power Factorization: 65%	324/500 [01:06<00:33,	5.28it/s]
Power Factorization: 65%	325/500 [01:06<00:33,	5.27it/s]
Power Factorization: 65%	326/500 [01:06<00:33,	5.22it/s]
Power Factorization: 65%	327/500 [01:06<00:33,	5.10it/s]
Power Factorization: 66%	328/500 [01:07<00:34,	5.03it/s]
Power Factorization: 66%	329/500 [01:07<00:34,	5.00it/s]
Power Factorization: 66%	330/500 [01:07<00:34,	4.97it/s]
Power Factorization: 66%	331/500 [01:07<00:34,	4.95it/s]
Power Factorization: 66%	332/500 [01:07<00:33,	5.05it/s]
Power Factorization: 67%	333/500 [01:08<00:32,	5.09it/s]
Power Factorization: 67%	334/500 [01:08<00:32,	5.17it/s]
Power Factorization: 67%	335/500 [01:08<00:31,	5.22it/s]
Power Factorization: 67%	336/500 [01:08<00:31,	5.28it/s]
Power Factorization: 67%	337/500 [01:08<00:30,	5.34it/s]
Power Factorization: 68%	338/500 [01:08<00:30,	5.32it/s]
Power Factorization: 68%	339/500 [01:09<00:30,	5.32it/s]
Power Factorization: 68%	340/500 [01:09<00:29,	5.33it/s]
Power Factorization: 68%	341/500 [01:09<00:29,	5.31it/s]
Power Factorization: 68%	342/500 [01:09<00:29,	5.30it/s]
Power Factorization: 69%	343/500 [01:09<00:29,	5.35it/s]
Power Factorization: 69%	344/500 [01:10<00:29,	5.30it/s]
Power Factorization: 69%	345/500 [01:10<00:29,	5.32it/s]
Power Factorization: 69%	346/500 [01:10<00:28,	5.32it/s]

Power Factorization: 69%	347/500 [01:10<00:29, 5.21it/s]
Power Factorization: 70%	348/500 [01:10<00:29, 5.20it/s]
Power Factorization: 70%	349/500 [01:11<00:28, 5.26it/s]
Power Factorization: 70%	350/500 [01:11<00:28, 5.22it/s]
Power Factorization: 70%	351/500 [01:11<00:28, 5.29it/s]
Power Factorization: 70%	352/500 [01:11<00:28, 5.27it/s]
Power Factorization: 71%	353/500 [01:11<00:27, 5.25it/s]
Power Factorization: 71%	354/500 [01:12<00:29, 5.00it/s]
Power Factorization: 71%	355/500 [01:12<00:29, 4.96it/s]
Power Factorization: 71%	356/500 [01:12<00:28, 4.99it/s]
Power Factorization: 71%	357/500 [01:12<00:27, 5.11it/s]
Power Factorization: 72%	358/500 [01:12<00:27, 5.18it/s]
Power Factorization: 72%	359/500 [01:13<00:26, 5.23it/s]
Power Factorization: 72%	360/500 [01:13<00:26, 5.26it/s]
Power Factorization: 72%	361/500 [01:13<00:26, 5.28it/s]
Power Factorization: 72%	362/500 [01:13<00:25, 5.32it/s]
Power Factorization: 73%	363/500 [01:13<00:25, 5.29it/s]
Power Factorization: 73%	364/500 [01:13<00:25, 5.33it/s]
Power Factorization: 73%	365/500 [01:14<00:25, 5.33it/s]
Power Factorization: 73%	366/500 [01:14<00:25, 5.31it/s]
Power Factorization: 73%	367/500 [01:14<00:25, 5.30it/s]
Power Factorization: 74%	368/500 [01:14<00:25, 5.24it/s]
Power Factorization: 74%	369/500 [01:14<00:25, 5.21it/s]
Power Factorization: 74%	370/500 [01:15<00:24, 5.22it/s]

Power Factorization: 74%	371/500 [01:15<00:24, 5.23it/s]
Power Factorization: 74%	372/500 [01:15<00:24, 5.29it/s]
Power Factorization: 75%	373/500 [01:15<00:24, 5.27it/s]
Power Factorization: 75%	374/500 [01:15<00:23, 5.32it/s]
Power Factorization: 75%	375/500 [01:16<00:23, 5.34it/s]
Power Factorization: 75%	376/500 [01:16<00:23, 5.36it/s]
Power Factorization: 75%	377/500 [01:16<00:23, 5.28it/s]
Power Factorization: 76%	378/500 [01:16<00:23, 5.17it/s]
Power Factorization: 76%	379/500 [01:16<00:23, 5.08it/s]
Power Factorization: 76%	380/500 [01:17<00:24, 5.00it/s]
Power Factorization: 76%	381/500 [01:17<00:24, 4.93it/s]
Power Factorization: 76%	382/500 [01:17<00:23, 5.06it/s]
Power Factorization: 77%	383/500 [01:17<00:22, 5.09it/s]
Power Factorization: 77%	384/500 [01:17<00:22, 5.15it/s]
Power Factorization: 77%	385/500 [01:18<00:22, 5.19it/s]
Power Factorization: 77%	386/500 [01:18<00:21, 5.25it/s]
Power Factorization: 77%	387/500 [01:18<00:21, 5.28it/s]
Power Factorization: 78%	388/500 [01:18<00:21, 5.26it/s]
Power Factorization: 78%	389/500 [01:18<00:21, 5.28it/s]
Power Factorization: 78%	390/500 [01:18<00:20, 5.31it/s]
Power Factorization: 78%	391/500 [01:19<00:20, 5.33it/s]
Power Factorization: 78%	392/500 [01:19<00:20, 5.34it/s]
Power Factorization: 79%	393/500 [01:19<00:19, 5.36it/s]
Power Factorization: 79%	394/500 [01:19<00:19, 5.35it/s]

Power Factorization: 79%	395/500 [01:19<00:19, 5.35it/s]
Power Factorization: 79%	396/500 [01:20<00:19, 5.31it/s]
Power Factorization: 79%	397/500 [01:20<00:20, 5.13it/s]
Power Factorization: 80%	398/500 [01:20<00:20, 5.07it/s]
Power Factorization: 80%	399/500 [01:20<00:20, 5.01it/s]
Power Factorization: 80%	400/500 [01:20<00:20, 4.91it/s]
Power Factorization: 80%	401/500 [01:21<00:20, 4.90it/s]
Power Factorization: 80%	402/500 [01:21<00:20, 4.83it/s]
Power Factorization: 81%	403/500 [01:21<00:20, 4.84it/s]
Power Factorization: 81%	404/500 [01:21<00:19, 4.89it/s]
Power Factorization: 81%	405/500 [01:21<00:19, 4.94it/s]
Power Factorization: 81%	406/500 [01:22<00:18, 5.06it/s]
Power Factorization: 81%	407/500 [01:22<00:18, 5.11it/s]
Power Factorization: 82%	408/500 [01:22<00:18, 4.98it/s]
Power Factorization: 82%	409/500 [01:22<00:18, 5.01it/s]
Power Factorization: 82%	410/500 [01:22<00:17, 5.04it/s]
Power Factorization: 82%	411/500 [01:23<00:17, 5.15it/s]
Power Factorization: 82%	412/500 [01:23<00:16, 5.22it/s]
Power Factorization: 83%	413/500 [01:23<00:16, 5.28it/s]
Power Factorization: 83%	414/500 [01:23<00:16, 5.31it/s]
Power Factorization: 83%	415/500 [01:23<00:15, 5.32it/s]
Power Factorization: 83%	416/500 [01:24<00:15, 5.35it/s]
Power Factorization: 83%	417/500 [01:24<00:15, 5.37it/s]
Power Factorization: 84%	418/500 [01:24<00:15, 5.37it/s]

Power Factorization: 84%	419/500 [01:24<00:15,	5.37it/s]
Power Factorization: 84%	420/500 [01:24<00:14,	5.36it/s]
Power Factorization: 84%	421/500 [01:24<00:14,	5.34it/s]
Power Factorization: 84%	422/500 [01:25<00:14,	5.37it/s]
Power Factorization: 85%	423/500 [01:25<00:14,	5.37it/s]
Power Factorization: 85%	424/500 [01:25<00:14,	5.40it/s]
Power Factorization: 85%	425/500 [01:25<00:14,	5.18it/s]
Power Factorization: 85%	426/500 [01:25<00:14,	5.14it/s]
Power Factorization: 85%	427/500 [01:26<00:14,	5.19it/s]
Power Factorization: 86%	428/500 [01:26<00:13,	5.24it/s]
Power Factorization: 86%	429/500 [01:26<00:13,	5.28it/s]
Power Factorization: 86%	430/500 [01:26<00:13,	5.32it/s]
Power Factorization: 86%	431/500 [01:26<00:12,	5.37it/s]
Power Factorization: 86%	432/500 [01:27<00:12,	5.40it/s]
Power Factorization: 87%	433/500 [01:27<00:12,	5.35it/s]
Power Factorization: 87%	434/500 [01:27<00:12,	5.35it/s]
Power Factorization: 87%	435/500 [01:27<00:12,	5.33it/s]
Power Factorization: 87%	436/500 [01:27<00:13,	4.89it/s]
Power Factorization: 87%	437/500 [01:28<00:13,	4.57it/s]
Power Factorization: 88%	438/500 [01:28<00:13,	4.66it/s]
Power Factorization: 88%	439/500 [01:28<00:12,	4.74it/s]
Power Factorization: 88%	440/500 [01:28<00:12,	4.89it/s]
Power Factorization: 88%	441/500 [01:28<00:11,	5.00it/s]
Power Factorization: 88%	442/500 [01:29<00:11,	5.11it/s]

Power Factorization: 89%	443/500 [01:29<00:10,	5.18it/s]
Power Factorization: 89%	444/500 [01:29<00:10,	5.26it/s]
Power Factorization: 89%	445/500 [01:29<00:10,	5.29it/s]
Power Factorization: 89%	446/500 [01:29<00:10,	5.30it/s]
Power Factorization: 89%	447/500 [01:29<00:09,	5.33it/s]
Power Factorization: 90%	448/500 [01:30<00:09,	5.35it/s]
Power Factorization: 90%	449/500 [01:30<00:09,	5.35it/s]
Power Factorization: 90%	450/500 [01:30<00:09,	5.28it/s]
Power Factorization: 90%	451/500 [01:30<00:09,	5.09it/s]
Power Factorization: 90%	452/500 [01:30<00:09,	5.12it/s]
Power Factorization: 91%	453/500 [01:31<00:09,	5.15it/s]
Power Factorization: 91%	454/500 [01:31<00:08,	5.20it/s]
Power Factorization: 91%	455/500 [01:31<00:08,	5.25it/s]
Power Factorization: 91%	456/500 [01:31<00:08,	5.25it/s]
Power Factorization: 91%	457/500 [01:31<00:08,	5.14it/s]
Power Factorization: 92%	458/500 [01:32<00:08,	4.92it/s]
Power Factorization: 92%	459/500 [01:32<00:08,	4.86it/s]
Power Factorization: 92%	460/500 [01:32<00:08,	4.87it/s]
Power Factorization: 92%	461/500 [01:32<00:07,	4.97it/s]
Power Factorization: 92%	462/500 [01:32<00:07,	5.07it/s]
Power Factorization: 93%	463/500 [01:33<00:07,	5.15it/s]
Power Factorization: 93%	464/500 [01:33<00:06,	5.23it/s]
Power Factorization: 93%	465/500 [01:33<00:06,	5.26it/s]
Power Factorization: 93%	466/500 [01:33<00:06,	5.28it/s]

Power Factorization: 93%	467/500 [01:33<00:06, 5.27it/s]
Power Factorization: 94%	468/500 [01:34<00:06, 5.31it/s]
Power Factorization: 94%	469/500 [01:34<00:05, 5.33it/s]
Power Factorization: 94%	470/500 [01:34<00:05, 5.33it/s]
Power Factorization: 94%	471/500 [01:34<00:05, 5.34it/s]
Power Factorization: 94%	472/500 [01:34<00:05, 5.35it/s]
Power Factorization: 95%	473/500 [01:34<00:05, 5.35it/s]
Power Factorization: 95%	474/500 [01:35<00:04, 5.37it/s]
Power Factorization: 95%	475/500 [01:35<00:04, 5.38it/s]
Power Factorization: 95%	476/500 [01:35<00:04, 5.42it/s]
Power Factorization: 95%	477/500 [01:35<00:04, 5.36it/s]
Power Factorization: 96%	478/500 [01:35<00:04, 5.36it/s]
Power Factorization: 96%	479/500 [01:36<00:03, 5.41it/s]
Power Factorization: 96%	480/500 [01:36<00:03, 5.32it/s]
Power Factorization: 96%	481/500 [01:36<00:03, 5.13it/s]
Power Factorization: 96%	482/500 [01:36<00:03, 5.22it/s]
Power Factorization: 97%	483/500 [01:36<00:03, 5.25it/s]
Power Factorization: 97%	484/500 [01:37<00:03, 5.28it/s]
Power Factorization: 97%	485/500 [01:37<00:02, 5.31it/s]
Power Factorization: 97%	486/500 [01:37<00:02, 5.33it/s]
Power Factorization: 97%	487/500 [01:37<00:02, 5.37it/s]
Power Factorization: 98%	488/500 [01:37<00:02, 5.35it/s]
Power Factorization: 98%	489/500 [01:37<00:02, 5.36it/s]
Power Factorization: 98%	490/500 [01:38<00:01, 5.40it/s]

Power Factorization: 98%	491/500 [01:38<00:01, 5.46it/s]
Power Factorization: 98%	492/500 [01:38<00:01, 5.47it/s]
Power Factorization: 99%	493/500 [01:38<00:01, 5.46it/s]
Power Factorization: 99%	494/500 [01:38<00:01, 5.51it/s]
Power Factorization: 99%	495/500 [01:39<00:00, 5.54it/s]
Power Factorization: 99%	496/500 [01:39<00:00, 5.52it/s]
Power Factorization: 99%	497/500 [01:39<00:00, 5.52it/s]
Power Factorization: 100%	498/500 [01:39<00:00, 5.46it/s]
Power Factorization: 100%	499/500 [01:39<00:00, 5.41it/s]
Power Factorization: 100%	500/500 [01:40<00:00, 5.00it/s]
Cross Validation: 40%	2/5 [03:22<05:02, 101.00s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:37, 5.14it/s]
Power Factorization: 0%	2/500 [00:00<01:34, 5.29it/s]
Power Factorization: 1%	3/500 [00:00<01:33, 5.34it/s]
Power Factorization: 1%	4/500 [00:00<01:33, 5.31it/s]
Power Factorization: 1%	5/500 [00:00<01:32, 5.34it/s]
Power Factorization: 1%	6/500 [00:01<01:32, 5.37it/s]
Power Factorization: 1%	7/500 [00:01<01:31, 5.36it/s]
Power Factorization: 2%	8/500 [00:01<01:31, 5.38it/s]
Power Factorization: 2%	9/500 [00:01<01:32, 5.29it/s]
Power Factorization: 2%	10/500 [00:01<01:35, 5.14it/s]
Power Factorization: 2%	11/500 [00:02<01:35, 5.10it/s]
Power Factorization: 2%	12/500 [00:02<01:34, 5.14it/s]

Power Factorization:	3%	13/500	[00:02<01:33,	5.20it/s]
Power Factorization:	3%	14/500	[00:02<01:33,	5.20it/s]
Power Factorization:	3%	15/500	[00:02<01:32,	5.26it/s]
Power Factorization:	3%	16/500	[00:03<01:31,	5.27it/s]
Power Factorization:	3%	17/500	[00:03<01:31,	5.25it/s]
Power Factorization:	4%	18/500	[00:03<01:31,	5.29it/s]
Power Factorization:	4%	19/500	[00:03<01:31,	5.26it/s]
Power Factorization:	4%	20/500	[00:03<01:30,	5.28it/s]
Power Factorization:	4%	21/500	[00:03<01:30,	5.28it/s]
Power Factorization:	4%	22/500	[00:04<01:30,	5.27it/s]
Power Factorization:	5%	23/500	[00:04<01:31,	5.24it/s]
Power Factorization:	5%	24/500	[00:04<01:30,	5.25it/s]
Power Factorization:	5%	25/500	[00:04<01:29,	5.29it/s]
Power Factorization:	5%	26/500	[00:04<01:29,	5.28it/s]
Power Factorization:	5%	27/500	[00:05<01:28,	5.31it/s]
Power Factorization:	6%	28/500	[00:05<01:28,	5.34it/s]
Power Factorization:	6%	29/500	[00:05<01:28,	5.33it/s]
Power Factorization:	6%	30/500	[00:05<01:27,	5.34it/s]
Power Factorization:	6%	31/500	[00:05<01:28,	5.30it/s]
Power Factorization:	6%	32/500	[00:06<01:27,	5.33it/s]
Power Factorization:	7%	33/500	[00:06<01:29,	5.25it/s]
Power Factorization:	7%	34/500	[00:06<01:32,	5.05it/s]
Power Factorization:	7%	35/500	[00:06<01:36,	4.82it/s]
Power Factorization:	7%	36/500	[00:06<01:37,	4.75it/s]

Power Factorization:	7%	37/500 [00:07<01:37, 4.74it/s]
Power Factorization:	8%	38/500 [00:07<01:35, 4.83it/s]
Power Factorization:	8%	39/500 [00:07<01:32, 5.00it/s]
Power Factorization:	8%	40/500 [00:07<01:30, 5.11it/s]
Power Factorization:	8%	41/500 [00:07<01:28, 5.17it/s]
Power Factorization:	8%	42/500 [00:08<01:27, 5.22it/s]
Power Factorization:	9%	43/500 [00:08<01:27, 5.25it/s]
Power Factorization:	9%	44/500 [00:08<01:27, 5.19it/s]
Power Factorization:	9%	45/500 [00:08<01:31, 4.99it/s]
Power Factorization:	9%	46/500 [00:08<01:33, 4.88it/s]
Power Factorization:	9%	47/500 [00:09<01:51, 4.05it/s]
Power Factorization:	10%	48/500 [00:09<02:01, 3.73it/s]
Power Factorization:	10%	49/500 [00:09<02:05, 3.60it/s]
Power Factorization:	10%	50/500 [00:10<02:00, 3.73it/s]
Power Factorization:	10%	51/500 [00:10<01:59, 3.76it/s]
Power Factorization:	10%	52/500 [00:10<01:57, 3.82it/s]
Power Factorization:	11%	53/500 [00:10<01:54, 3.89it/s]
Power Factorization:	11%	54/500 [00:11<01:51, 3.99it/s]
Power Factorization:	11%	55/500 [00:11<01:50, 4.03it/s]
Power Factorization:	11%	56/500 [00:11<01:52, 3.96it/s]
Power Factorization:	11%	57/500 [00:11<01:53, 3.91it/s]
Power Factorization:	12%	58/500 [00:12<01:56, 3.80it/s]
Power Factorization:	12%	59/500 [00:12<01:55, 3.81it/s]
Power Factorization:	12%	60/500 [00:12<01:51, 3.93it/s]

Power Factorization: 12%	61/500 [00:12<01:49, 4.00it/s]
Power Factorization: 12%	62/500 [00:13<01:47, 4.08it/s]
Power Factorization: 13%	63/500 [00:13<01:48, 4.01it/s]
Power Factorization: 13%	64/500 [00:13<01:52, 3.89it/s]
Power Factorization: 13%	65/500 [00:13<01:49, 3.98it/s]
Power Factorization: 13%	66/500 [00:14<01:47, 4.03it/s]
Power Factorization: 13%	67/500 [00:14<01:47, 4.01it/s]
Power Factorization: 14%	68/500 [00:14<01:47, 4.01it/s]
Power Factorization: 14%	69/500 [00:14<01:46, 4.05it/s]
Power Factorization: 14%	70/500 [00:15<01:45, 4.08it/s]
Power Factorization: 14%	71/500 [00:15<01:45, 4.09it/s]
Power Factorization: 14%	72/500 [00:15<01:43, 4.14it/s]
Power Factorization: 15%	73/500 [00:15<01:43, 4.11it/s]
Power Factorization: 15%	74/500 [00:16<01:43, 4.12it/s]
Power Factorization: 15%	75/500 [00:16<01:40, 4.21it/s]
Power Factorization: 15%	76/500 [00:16<01:39, 4.25it/s]
Power Factorization: 15%	77/500 [00:16<01:40, 4.22it/s]
Power Factorization: 16%	78/500 [00:17<01:39, 4.23it/s]
Power Factorization: 16%	79/500 [00:17<01:39, 4.23it/s]
Power Factorization: 16%	80/500 [00:17<01:38, 4.25it/s]
Power Factorization: 16%	81/500 [00:17<01:38, 4.25it/s]
Power Factorization: 16%	82/500 [00:17<01:39, 4.19it/s]
Power Factorization: 17%	83/500 [00:18<01:39, 4.18it/s]
Power Factorization: 17%	84/500 [00:18<01:40, 4.12it/s]

Power Factorization: 17%	85/500 [00:18<01:40, 4.12it/s]
Power Factorization: 17%	86/500 [00:18<01:40, 4.13it/s]
Power Factorization: 17%	87/500 [00:19<01:40, 4.12it/s]
Power Factorization: 18%	88/500 [00:19<01:39, 4.14it/s]
Power Factorization: 18%	89/500 [00:19<01:37, 4.19it/s]
Power Factorization: 18%	90/500 [00:19<01:36, 4.25it/s]
Power Factorization: 18%	91/500 [00:20<01:34, 4.34it/s]
Power Factorization: 18%	92/500 [00:20<01:33, 4.35it/s]
Power Factorization: 19%	93/500 [00:20<01:33, 4.36it/s]
Power Factorization: 19%	94/500 [00:20<01:33, 4.32it/s]
Power Factorization: 19%	95/500 [00:21<01:35, 4.25it/s]
Power Factorization: 19%	96/500 [00:21<01:35, 4.24it/s]
Power Factorization: 19%	97/500 [00:21<01:35, 4.22it/s]
Power Factorization: 20%	98/500 [00:21<01:34, 4.27it/s]
Power Factorization: 20%	99/500 [00:21<01:33, 4.29it/s]
Power Factorization: 20%	100/500 [00:22<01:32, 4.33it/s]
Power Factorization: 20%	101/500 [00:22<01:32, 4.33it/s]
Power Factorization: 20%	102/500 [00:22<01:31, 4.36it/s]
Power Factorization: 21%	103/500 [00:22<01:32, 4.28it/s]
Power Factorization: 21%	104/500 [00:23<01:36, 4.11it/s]
Power Factorization: 21%	105/500 [00:23<01:35, 4.12it/s]
Power Factorization: 21%	106/500 [00:23<01:35, 4.14it/s]
Power Factorization: 21%	107/500 [00:23<01:34, 4.17it/s]
Power Factorization: 22%	108/500 [00:24<01:35, 4.13it/s]

Power Factorization: 22%	109/500 [00:24<01:42, 3.81it/s]
Power Factorization: 22%	110/500 [00:24<01:45, 3.70it/s]
Power Factorization: 22%	111/500 [00:25<01:53, 3.43it/s]
Power Factorization: 22%	112/500 [00:25<01:50, 3.50it/s]
Power Factorization: 23%	113/500 [00:25<02:14, 2.88it/s]
Power Factorization: 23%	114/500 [00:26<02:06, 3.06it/s]
Power Factorization: 23%	115/500 [00:26<01:55, 3.34it/s]
Power Factorization: 23%	116/500 [00:26<01:48, 3.55it/s]
Power Factorization: 23%	117/500 [00:26<01:43, 3.70it/s]
Power Factorization: 24%	118/500 [00:27<01:38, 3.86it/s]
Power Factorization: 24%	119/500 [00:27<01:35, 4.01it/s]
Power Factorization: 24%	120/500 [00:27<01:34, 4.04it/s]
Power Factorization: 24%	121/500 [00:27<01:30, 4.18it/s]
Power Factorization: 24%	122/500 [00:27<01:30, 4.20it/s]
Power Factorization: 25%	123/500 [00:28<01:27, 4.30it/s]
Power Factorization: 25%	124/500 [00:28<01:25, 4.41it/s]
Power Factorization: 25%	125/500 [00:28<01:22, 4.53it/s]
Power Factorization: 25%	126/500 [00:28<01:19, 4.70it/s]
Power Factorization: 25%	127/500 [00:29<01:16, 4.88it/s]
Power Factorization: 26%	128/500 [00:29<01:16, 4.88it/s]
Power Factorization: 26%	129/500 [00:29<01:16, 4.88it/s]
Power Factorization: 26%	130/500 [00:29<01:15, 4.88it/s]
Power Factorization: 26%	131/500 [00:29<01:16, 4.84it/s]
Power Factorization: 26%	132/500 [00:30<01:15, 4.86it/s]

Power Factorization: 27%	133/500 [00:30<01:15, 4.84it/s]
Power Factorization: 27%	134/500 [00:30<01:16, 4.79it/s]
Power Factorization: 27%	135/500 [00:30<01:18, 4.62it/s]
Power Factorization: 27%	136/500 [00:30<01:18, 4.66it/s]
Power Factorization: 27%	137/500 [00:31<01:16, 4.76it/s]
Power Factorization: 28%	138/500 [00:31<01:13, 4.90it/s]
Power Factorization: 28%	139/500 [00:31<01:12, 5.01it/s]
Power Factorization: 28%	140/500 [00:31<01:10, 5.10it/s]
Power Factorization: 28%	141/500 [00:31<01:09, 5.15it/s]
Power Factorization: 28%	142/500 [00:32<01:10, 5.10it/s]
Power Factorization: 29%	143/500 [00:32<01:10, 5.05it/s]
Power Factorization: 29%	144/500 [00:32<01:11, 5.00it/s]
Power Factorization: 29%	145/500 [00:32<01:11, 4.99it/s]
Power Factorization: 29%	146/500 [00:32<01:10, 5.02it/s]
Power Factorization: 29%	147/500 [00:33<01:09, 5.05it/s]
Power Factorization: 30%	148/500 [00:33<01:10, 5.00it/s]
Power Factorization: 30%	149/500 [00:33<01:10, 5.00it/s]
Power Factorization: 30%	150/500 [00:33<01:08, 5.09it/s]
Power Factorization: 30%	151/500 [00:33<01:08, 5.06it/s]
Power Factorization: 30%	152/500 [00:34<01:09, 4.97it/s]
Power Factorization: 31%	153/500 [00:34<01:09, 5.01it/s]
Power Factorization: 31%	154/500 [00:34<01:09, 4.99it/s]
Power Factorization: 31%	155/500 [00:34<01:08, 5.03it/s]
Power Factorization: 31%	156/500 [00:34<01:10, 4.90it/s]

Power Factorization: 31%	157/500 [00:35<01:18,	4.39it/s]
Power Factorization: 32%	158/500 [00:35<01:44,	3.26it/s]
Power Factorization: 32%	159/500 [00:35<01:47,	3.16it/s]
Power Factorization: 32%	160/500 [00:36<01:48,	3.12it/s]
Power Factorization: 32%	161/500 [00:36<01:46,	3.19it/s]
Power Factorization: 32%	162/500 [00:36<01:37,	3.47it/s]
Power Factorization: 33%	163/500 [00:37<01:32,	3.64it/s]
Power Factorization: 33%	164/500 [00:37<01:32,	3.63it/s]
Power Factorization: 33%	165/500 [00:37<01:31,	3.66it/s]
Power Factorization: 33%	166/500 [00:37<01:28,	3.76it/s]
Power Factorization: 33%	167/500 [00:38<01:26,	3.87it/s]
Power Factorization: 34%	168/500 [00:38<01:24,	3.95it/s]
Power Factorization: 34%	169/500 [00:38<01:23,	3.97it/s]
Power Factorization: 34%	170/500 [00:38<01:22,	3.99it/s]
Power Factorization: 34%	171/500 [00:39<01:22,	3.98it/s]
Power Factorization: 34%	172/500 [00:39<01:21,	4.02it/s]
Power Factorization: 35%	173/500 [00:39<01:21,	4.02it/s]
Power Factorization: 35%	174/500 [00:39<01:21,	4.00it/s]
Power Factorization: 35%	175/500 [00:40<01:21,	3.98it/s]
Power Factorization: 35%	176/500 [00:40<01:23,	3.90it/s]
Power Factorization: 35%	177/500 [00:40<01:34,	3.43it/s]
Power Factorization: 36%	178/500 [00:41<01:35,	3.39it/s]
Power Factorization: 36%	179/500 [00:41<01:30,	3.55it/s]
Power Factorization: 36%	180/500 [00:41<01:26,	3.72it/s]

Power Factorization: 36%	181/500 [00:41<01:28, 3.60it/s]
Power Factorization: 36%	182/500 [00:42<01:46, 2.98it/s]
Power Factorization: 37%	183/500 [00:42<01:45, 3.01it/s]
Power Factorization: 37%	184/500 [00:42<01:35, 3.30it/s]
Power Factorization: 37%	185/500 [00:43<01:36, 3.27it/s]
Power Factorization: 37%	186/500 [00:43<01:32, 3.39it/s]
Power Factorization: 37%	187/500 [00:43<01:27, 3.56it/s]
Power Factorization: 38%	188/500 [00:43<01:22, 3.77it/s]
Power Factorization: 38%	189/500 [00:44<01:16, 4.05it/s]
Power Factorization: 38%	190/500 [00:44<01:12, 4.27it/s]
Power Factorization: 38%	191/500 [00:44<01:09, 4.44it/s]
Power Factorization: 38%	192/500 [00:44<01:06, 4.64it/s]
Power Factorization: 39%	193/500 [00:44<01:03, 4.84it/s]
Power Factorization: 39%	194/500 [00:45<01:01, 4.98it/s]
Power Factorization: 39%	195/500 [00:45<00:59, 5.09it/s]
Power Factorization: 39%	196/500 [00:45<00:58, 5.18it/s]
Power Factorization: 39%	197/500 [00:45<00:59, 5.07it/s]
Power Factorization: 40%	198/500 [00:45<01:00, 4.98it/s]
Power Factorization: 40%	199/500 [00:46<01:01, 4.86it/s]
Power Factorization: 40%	200/500 [00:46<01:01, 4.89it/s]
Power Factorization: 40%	201/500 [00:46<01:01, 4.90it/s]
Power Factorization: 40%	202/500 [00:46<00:59, 5.02it/s]
Power Factorization: 41%	203/500 [00:46<00:58, 5.11it/s]
Power Factorization: 41%	204/500 [00:47<00:57, 5.16it/s]

Power Factorization: 41%	205/500 [00:47<00:56, 5.20it/s]
Power Factorization: 41%	206/500 [00:47<00:55, 5.26it/s]
Power Factorization: 41%	207/500 [00:47<00:56, 5.18it/s]
Power Factorization: 42%	208/500 [00:47<00:57, 5.10it/s]
Power Factorization: 42%	209/500 [00:48<00:57, 5.02it/s]
Power Factorization: 42%	210/500 [00:48<00:57, 5.08it/s]
Power Factorization: 42%	211/500 [00:48<00:56, 5.15it/s]
Power Factorization: 42%	212/500 [00:48<00:55, 5.23it/s]
Power Factorization: 43%	213/500 [00:48<00:54, 5.28it/s]
Power Factorization: 43%	214/500 [00:49<00:56, 5.10it/s]
Power Factorization: 43%	215/500 [00:49<01:02, 4.53it/s]
Power Factorization: 43%	216/500 [00:49<01:04, 4.38it/s]
Power Factorization: 43%	217/500 [00:49<01:02, 4.51it/s]
Power Factorization: 44%	218/500 [00:49<01:00, 4.70it/s]
Power Factorization: 44%	219/500 [00:50<00:57, 4.89it/s]
Power Factorization: 44%	220/500 [00:50<00:55, 5.02it/s]
Power Factorization: 44%	221/500 [00:50<00:54, 5.15it/s]
Power Factorization: 44%	222/500 [00:50<00:53, 5.17it/s]
Power Factorization: 45%	223/500 [00:50<00:53, 5.15it/s]
Power Factorization: 45%	224/500 [00:51<00:52, 5.22it/s]
Power Factorization: 45%	225/500 [00:51<00:52, 5.24it/s]
Power Factorization: 45%	226/500 [00:51<00:52, 5.26it/s]
Power Factorization: 45%	227/500 [00:51<00:51, 5.28it/s]
Power Factorization: 46%	228/500 [00:51<00:50, 5.36it/s]

Power Factorization: 46%	229/500 [00:52<00:50, 5.40it/s]
Power Factorization: 46%	230/500 [00:52<00:49, 5.43it/s]
Power Factorization: 46%	231/500 [00:52<00:49, 5.48it/s]
Power Factorization: 46%	232/500 [00:52<00:49, 5.44it/s]
Power Factorization: 47%	233/500 [00:52<00:48, 5.45it/s]
Power Factorization: 47%	234/500 [00:52<00:48, 5.51it/s]
Power Factorization: 47%	235/500 [00:53<00:48, 5.52it/s]
Power Factorization: 47%	236/500 [00:53<00:47, 5.56it/s]
Power Factorization: 47%	237/500 [00:53<00:47, 5.59it/s]
Power Factorization: 48%	238/500 [00:53<00:46, 5.61it/s]
Power Factorization: 48%	239/500 [00:53<00:46, 5.56it/s]
Power Factorization: 48%	240/500 [00:53<00:46, 5.58it/s]
Power Factorization: 48%	241/500 [00:54<00:46, 5.60it/s]
Power Factorization: 48%	242/500 [00:54<00:46, 5.60it/s]
Power Factorization: 49%	243/500 [00:54<00:45, 5.60it/s]
Power Factorization: 49%	244/500 [00:54<00:46, 5.54it/s]
Power Factorization: 49%	245/500 [00:54<00:46, 5.54it/s]
Power Factorization: 49%	246/500 [00:55<00:45, 5.54it/s]
Power Factorization: 49%	247/500 [00:55<00:45, 5.55it/s]
Power Factorization: 50%	248/500 [00:55<00:45, 5.55it/s]
Power Factorization: 50%	249/500 [00:55<00:45, 5.55it/s]
Power Factorization: 50%	250/500 [00:55<00:45, 5.53it/s]
Power Factorization: 50%	251/500 [00:55<00:44, 5.54it/s]
Power Factorization: 50%	252/500 [00:56<00:45, 5.50it/s]

Power Factorization: 51%	253/500 [00:56<00:44, 5.51it/s]
Power Factorization: 51%	254/500 [00:56<00:44, 5.55it/s]
Power Factorization: 51%	255/500 [00:56<00:44, 5.57it/s]
Power Factorization: 51%	256/500 [00:56<00:43, 5.59it/s]
Power Factorization: 51%	257/500 [00:57<00:43, 5.55it/s]
Power Factorization: 52%	258/500 [00:57<00:43, 5.57it/s]
Power Factorization: 52%	259/500 [00:57<00:43, 5.52it/s]
Power Factorization: 52%	260/500 [00:57<00:43, 5.48it/s]
Power Factorization: 52%	261/500 [00:57<00:43, 5.46it/s]
Power Factorization: 52%	262/500 [00:57<00:43, 5.52it/s]
Power Factorization: 53%	263/500 [00:58<00:43, 5.49it/s]
Power Factorization: 53%	264/500 [00:58<00:45, 5.22it/s]
Power Factorization: 53%	265/500 [00:58<00:46, 5.11it/s]
Power Factorization: 53%	266/500 [00:58<00:52, 4.47it/s]
Power Factorization: 53%	267/500 [00:59<00:53, 4.35it/s]
Power Factorization: 54%	268/500 [00:59<00:52, 4.39it/s]
Power Factorization: 54%	269/500 [00:59<00:50, 4.57it/s]
Power Factorization: 54%	270/500 [00:59<00:48, 4.75it/s]
Power Factorization: 54%	271/500 [00:59<00:46, 4.89it/s]
Power Factorization: 54%	272/500 [01:00<00:45, 5.01it/s]
Power Factorization: 55%	273/500 [01:00<00:44, 5.10it/s]
Power Factorization: 55%	274/500 [01:00<00:43, 5.15it/s]
Power Factorization: 55%	275/500 [01:00<00:43, 5.18it/s]
Power Factorization: 55%	276/500 [01:00<00:43, 5.20it/s]

Power Factorization: 55%	277/500 [01:01<00:42, 5.27it/s]
Power Factorization: 56%	278/500 [01:01<00:41, 5.38it/s]
Power Factorization: 56%	279/500 [01:01<00:41, 5.38it/s]
Power Factorization: 56%	280/500 [01:01<00:42, 5.21it/s]
Power Factorization: 56%	281/500 [01:01<00:41, 5.23it/s]
Power Factorization: 56%	282/500 [01:01<00:41, 5.23it/s]
Power Factorization: 57%	283/500 [01:02<00:41, 5.23it/s]
Power Factorization: 57%	284/500 [01:02<00:41, 5.23it/s]
Power Factorization: 57%	285/500 [01:02<00:44, 4.86it/s]
Power Factorization: 57%	286/500 [01:02<00:45, 4.65it/s]
Power Factorization: 57%	287/500 [01:03<00:46, 4.54it/s]
Power Factorization: 58%	288/500 [01:03<00:49, 4.25it/s]
Power Factorization: 58%	289/500 [01:03<00:50, 4.19it/s]
Power Factorization: 58%	290/500 [01:03<00:52, 3.97it/s]
Power Factorization: 58%	291/500 [01:04<00:54, 3.84it/s]
Power Factorization: 58%	292/500 [01:04<00:52, 3.98it/s]
Power Factorization: 59%	293/500 [01:04<00:50, 4.09it/s]
Power Factorization: 59%	294/500 [01:04<00:49, 4.17it/s]
Power Factorization: 59%	295/500 [01:05<00:48, 4.22it/s]
Power Factorization: 59%	296/500 [01:05<00:47, 4.32it/s]
Power Factorization: 59%	297/500 [01:05<00:50, 4.04it/s]
Power Factorization: 60%	298/500 [01:05<00:48, 4.19it/s]
Power Factorization: 60%	299/500 [01:06<00:48, 4.15it/s]
Power Factorization: 60%	300/500 [01:06<00:47, 4.21it/s]

Power Factorization: 60%	301/500 [01:06<00:47, 4.20it/s]
Power Factorization: 60%	302/500 [01:06<00:47, 4.14it/s]
Power Factorization: 61%	303/500 [01:07<00:49, 3.94it/s]
Power Factorization: 61%	304/500 [01:07<00:49, 3.98it/s]
Power Factorization: 61%	305/500 [01:07<00:49, 3.94it/s]
Power Factorization: 61%	306/500 [01:07<00:48, 3.98it/s]
Power Factorization: 61%	307/500 [01:08<00:47, 4.02it/s]
Power Factorization: 62%	308/500 [01:08<00:47, 4.06it/s]
Power Factorization: 62%	309/500 [01:08<00:46, 4.09it/s]
Power Factorization: 62%	310/500 [01:08<00:47, 3.97it/s]
Power Factorization: 62%	311/500 [01:09<00:47, 3.95it/s]
Power Factorization: 62%	312/500 [01:09<00:47, 3.99it/s]
Power Factorization: 63%	313/500 [01:09<00:46, 3.99it/s]
Power Factorization: 63%	314/500 [01:09<00:47, 3.90it/s]
Power Factorization: 63%	315/500 [01:10<00:44, 4.15it/s]
Power Factorization: 63%	316/500 [01:10<00:42, 4.31it/s]
Power Factorization: 63%	317/500 [01:10<00:40, 4.52it/s]
Power Factorization: 64%	318/500 [01:10<00:38, 4.74it/s]
Power Factorization: 64%	319/500 [01:10<00:37, 4.89it/s]
Power Factorization: 64%	320/500 [01:10<00:35, 5.04it/s]
Power Factorization: 64%	321/500 [01:11<00:34, 5.13it/s]
Power Factorization: 64%	322/500 [01:11<00:34, 5.17it/s]
Power Factorization: 65%	323/500 [01:11<00:34, 5.20it/s]
Power Factorization: 65%	324/500 [01:11<00:33, 5.30it/s]

Power Factorization: 65%	325/500 [01:11<00:32,	5.32it/s]
Power Factorization: 65%	326/500 [01:12<00:33,	5.19it/s]
Power Factorization: 65%	327/500 [01:12<00:33,	5.19it/s]
Power Factorization: 66%	328/500 [01:12<00:33,	5.20it/s]
Power Factorization: 66%	329/500 [01:12<00:32,	5.26it/s]
Power Factorization: 66%	330/500 [01:12<00:31,	5.32it/s]
Power Factorization: 66%	331/500 [01:13<00:31,	5.37it/s]
Power Factorization: 66%	332/500 [01:13<00:31,	5.41it/s]
Power Factorization: 67%	333/500 [01:13<00:30,	5.51it/s]
Power Factorization: 67%	334/500 [01:13<00:29,	5.55it/s]
Power Factorization: 67%	335/500 [01:13<00:29,	5.60it/s]
Power Factorization: 67%	336/500 [01:13<00:29,	5.55it/s]
Power Factorization: 67%	337/500 [01:14<00:29,	5.49it/s]
Power Factorization: 68%	338/500 [01:14<00:30,	5.34it/s]
Power Factorization: 68%	339/500 [01:14<00:29,	5.37it/s]
Power Factorization: 68%	340/500 [01:14<00:29,	5.45it/s]
Power Factorization: 68%	341/500 [01:14<00:29,	5.43it/s]
Power Factorization: 68%	342/500 [01:15<00:28,	5.46it/s]
Power Factorization: 69%	343/500 [01:15<00:28,	5.47it/s]
Power Factorization: 69%	344/500 [01:15<00:28,	5.55it/s]
Power Factorization: 69%	345/500 [01:15<00:28,	5.47it/s]
Power Factorization: 69%	346/500 [01:15<00:28,	5.39it/s]
Power Factorization: 69%	347/500 [01:15<00:28,	5.40it/s]
Power Factorization: 70%	348/500 [01:16<00:27,	5.45it/s]

Power Factorization: 70%	349/500 [01:16<00:27, 5.53it/s]
Power Factorization: 70%	350/500 [01:16<00:26, 5.56it/s]
Power Factorization: 70%	351/500 [01:16<00:26, 5.54it/s]
Power Factorization: 70%	352/500 [01:16<00:26, 5.55it/s]
Power Factorization: 71%	353/500 [01:17<00:27, 5.35it/s]
Power Factorization: 71%	354/500 [01:17<00:28, 5.08it/s]
Power Factorization: 71%	355/500 [01:17<00:28, 5.17it/s]
Power Factorization: 71%	356/500 [01:17<00:27, 5.21it/s]
Power Factorization: 71%	357/500 [01:17<00:27, 5.21it/s]
Power Factorization: 72%	358/500 [01:18<00:27, 5.25it/s]
Power Factorization: 72%	359/500 [01:18<00:26, 5.30it/s]
Power Factorization: 72%	360/500 [01:18<00:26, 5.32it/s]
Power Factorization: 72%	361/500 [01:18<00:25, 5.37it/s]
Power Factorization: 72%	362/500 [01:18<00:25, 5.43it/s]
Power Factorization: 73%	363/500 [01:18<00:24, 5.48it/s]
Power Factorization: 73%	364/500 [01:19<00:25, 5.43it/s]
Power Factorization: 73%	365/500 [01:19<00:24, 5.48it/s]
Power Factorization: 73%	366/500 [01:19<00:24, 5.44it/s]
Power Factorization: 73%	367/500 [01:19<00:24, 5.41it/s]
Power Factorization: 74%	368/500 [01:19<00:24, 5.40it/s]
Power Factorization: 74%	369/500 [01:20<00:24, 5.39it/s]
Power Factorization: 74%	370/500 [01:20<00:23, 5.45it/s]
Power Factorization: 74%	371/500 [01:20<00:23, 5.47it/s]
Power Factorization: 74%	372/500 [01:20<00:23, 5.46it/s]

Power Factorization: 75%	373/500 [01:20<00:23,	5.44it/s]
Power Factorization: 75%	374/500 [01:20<00:22,	5.49it/s]
Power Factorization: 75%	375/500 [01:21<00:22,	5.49it/s]
Power Factorization: 75%	376/500 [01:21<00:22,	5.48it/s]
Power Factorization: 75%	377/500 [01:21<00:22,	5.38it/s]
Power Factorization: 76%	378/500 [01:21<00:22,	5.35it/s]
Power Factorization: 76%	379/500 [01:21<00:22,	5.32it/s]
Power Factorization: 76%	380/500 [01:22<00:22,	5.26it/s]
Power Factorization: 76%	381/500 [01:22<00:22,	5.31it/s]
Power Factorization: 76%	382/500 [01:22<00:22,	5.33it/s]
Power Factorization: 77%	383/500 [01:22<00:21,	5.33it/s]
Power Factorization: 77%	384/500 [01:22<00:21,	5.32it/s]
Power Factorization: 77%	385/500 [01:23<00:21,	5.34it/s]
Power Factorization: 77%	386/500 [01:23<00:21,	5.35it/s]
Power Factorization: 77%	387/500 [01:23<00:21,	5.34it/s]
Power Factorization: 78%	388/500 [01:23<00:20,	5.36it/s]
Power Factorization: 78%	389/500 [01:23<00:20,	5.37it/s]
Power Factorization: 78%	390/500 [01:23<00:20,	5.37it/s]
Power Factorization: 78%	391/500 [01:24<00:20,	5.39it/s]
Power Factorization: 78%	392/500 [01:24<00:20,	5.16it/s]
Power Factorization: 79%	393/500 [01:25<00:34,	3.09it/s]
Power Factorization: 79%	394/500 [01:25<00:32,	3.28it/s]
Power Factorization: 79%	395/500 [01:25<00:29,	3.58it/s]
Power Factorization: 79%	396/500 [01:25<00:27,	3.84it/s]

Power Factorization: 79%	397/500 [01:25<00:25, 4.05it/s]
Power Factorization: 80%	398/500 [01:26<00:24, 4.19it/s]
Power Factorization: 80%	399/500 [01:26<00:22, 4.46it/s]
Power Factorization: 80%	400/500 [01:26<00:22, 4.39it/s]
Power Factorization: 80%	401/500 [01:26<00:23, 4.22it/s]
Power Factorization: 80%	402/500 [01:27<00:22, 4.34it/s]
Power Factorization: 81%	403/500 [01:27<00:21, 4.45it/s]
Power Factorization: 81%	404/500 [01:27<00:20, 4.62it/s]
Power Factorization: 81%	405/500 [01:27<00:20, 4.73it/s]
Power Factorization: 81%	406/500 [01:27<00:19, 4.84it/s]
Power Factorization: 81%	407/500 [01:28<00:18, 4.95it/s]
Power Factorization: 82%	408/500 [01:28<00:18, 5.03it/s]
Power Factorization: 82%	409/500 [01:28<00:18, 5.04it/s]
Power Factorization: 82%	410/500 [01:28<00:17, 5.11it/s]
Power Factorization: 82%	411/500 [01:28<00:17, 5.13it/s]
Power Factorization: 82%	412/500 [01:28<00:16, 5.20it/s]
Power Factorization: 83%	413/500 [01:29<00:16, 5.23it/s]
Power Factorization: 83%	414/500 [01:29<00:16, 5.27it/s]
Power Factorization: 83%	415/500 [01:29<00:16, 5.29it/s]
Power Factorization: 83%	416/500 [01:29<00:15, 5.26it/s]
Power Factorization: 83%	417/500 [01:29<00:16, 5.10it/s]
Power Factorization: 84%	418/500 [01:30<00:16, 4.92it/s]
Power Factorization: 84%	419/500 [01:30<00:16, 4.86it/s]
Power Factorization: 84%	420/500 [01:30<00:16, 4.86it/s]

Power Factorization: 84%	421/500 [01:30<00:16,	4.84it/s]
Power Factorization: 84%	422/500 [01:30<00:15,	4.93it/s]
Power Factorization: 85%	423/500 [01:31<00:15,	5.01it/s]
Power Factorization: 85%	424/500 [01:31<00:14,	5.07it/s]
Power Factorization: 85%	425/500 [01:31<00:14,	5.12it/s]
Power Factorization: 85%	426/500 [01:31<00:14,	5.19it/s]
Power Factorization: 85%	427/500 [01:31<00:14,	5.20it/s]
Power Factorization: 86%	428/500 [01:32<00:14,	5.08it/s]
Power Factorization: 86%	429/500 [01:32<00:14,	5.02it/s]
Power Factorization: 86%	430/500 [01:32<00:13,	5.02it/s]
Power Factorization: 86%	431/500 [01:32<00:13,	5.10it/s]
Power Factorization: 86%	432/500 [01:32<00:13,	5.14it/s]
Power Factorization: 87%	433/500 [01:33<00:12,	5.18it/s]
Power Factorization: 87%	434/500 [01:33<00:12,	5.16it/s]
Power Factorization: 87%	435/500 [01:33<00:12,	5.23it/s]
Power Factorization: 87%	436/500 [01:33<00:12,	5.21it/s]
Power Factorization: 87%	437/500 [01:33<00:11,	5.26it/s]
Power Factorization: 88%	438/500 [01:34<00:12,	4.85it/s]
Power Factorization: 88%	439/500 [01:34<00:13,	4.39it/s]
Power Factorization: 88%	440/500 [01:34<00:13,	4.47it/s]
Power Factorization: 88%	441/500 [01:34<00:12,	4.56it/s]
Power Factorization: 88%	442/500 [01:35<00:12,	4.70it/s]
Power Factorization: 89%	443/500 [01:35<00:11,	4.82it/s]
Power Factorization: 89%	444/500 [01:35<00:11,	4.97it/s]

Power Factorization: 89%	445/500 [01:35<00:10,	5.08it/s]
Power Factorization: 89%	446/500 [01:35<00:10,	5.16it/s]
Power Factorization: 89%	447/500 [01:35<00:10,	5.19it/s]
Power Factorization: 90%	448/500 [01:36<00:09,	5.24it/s]
Power Factorization: 90%	449/500 [01:36<00:09,	5.27it/s]
Power Factorization: 90%	450/500 [01:36<00:09,	5.33it/s]
Power Factorization: 90%	451/500 [01:36<00:09,	5.21it/s]
Power Factorization: 90%	452/500 [01:36<00:09,	5.11it/s]
Power Factorization: 91%	453/500 [01:37<00:09,	5.15it/s]
Power Factorization: 91%	454/500 [01:37<00:08,	5.21it/s]
Power Factorization: 91%	455/500 [01:37<00:08,	5.28it/s]
Power Factorization: 91%	456/500 [01:37<00:08,	5.30it/s]
Power Factorization: 91%	457/500 [01:37<00:08,	5.30it/s]
Power Factorization: 92%	458/500 [01:38<00:07,	5.27it/s]
Power Factorization: 92%	459/500 [01:38<00:07,	5.29it/s]
Power Factorization: 92%	460/500 [01:38<00:07,	5.32it/s]
Power Factorization: 92%	461/500 [01:38<00:07,	5.33it/s]
Power Factorization: 92%	462/500 [01:38<00:07,	5.34it/s]
Power Factorization: 93%	463/500 [01:38<00:06,	5.34it/s]
Power Factorization: 93%	464/500 [01:39<00:06,	5.32it/s]
Power Factorization: 93%	465/500 [01:39<00:06,	5.32it/s]
Power Factorization: 93%	466/500 [01:39<00:06,	5.33it/s]
Power Factorization: 93%	467/500 [01:39<00:06,	5.30it/s]
Power Factorization: 94%	468/500 [01:39<00:06,	5.28it/s]

Power Factorization: 94%	469/500 [01:40<00:05, 5.33it/s]
Power Factorization: 94%	470/500 [01:40<00:05, 5.33it/s]
Power Factorization: 94%	471/500 [01:40<00:05, 5.32it/s]
Power Factorization: 94%	472/500 [01:40<00:05, 5.33it/s]
Power Factorization: 95%	473/500 [01:40<00:05, 5.36it/s]
Power Factorization: 95%	474/500 [01:41<00:04, 5.35it/s]
Power Factorization: 95%	475/500 [01:41<00:04, 5.36it/s]
Power Factorization: 95%	476/500 [01:41<00:04, 5.34it/s]
Power Factorization: 95%	477/500 [01:41<00:04, 5.36it/s]
Power Factorization: 96%	478/500 [01:41<00:04, 5.33it/s]
Power Factorization: 96%	479/500 [01:41<00:03, 5.33it/s]
Power Factorization: 96%	480/500 [01:42<00:03, 5.27it/s]
Power Factorization: 96%	481/500 [01:42<00:03, 5.00it/s]
Power Factorization: 96%	482/500 [01:42<00:03, 5.00it/s]
Power Factorization: 97%	483/500 [01:42<00:03, 4.92it/s]
Power Factorization: 97%	484/500 [01:43<00:03, 4.88it/s]
Power Factorization: 97%	485/500 [01:43<00:03, 4.74it/s]
Power Factorization: 97%	486/500 [01:43<00:02, 4.76it/s]
Power Factorization: 97%	487/500 [01:43<00:02, 4.75it/s]
Power Factorization: 98%	488/500 [01:43<00:02, 4.77it/s]
Power Factorization: 98%	489/500 [01:44<00:02, 4.85it/s]
Power Factorization: 98%	490/500 [01:44<00:02, 4.70it/s]
Power Factorization: 98%	491/500 [01:44<00:01, 4.75it/s]
Power Factorization: 98%	492/500 [01:44<00:01, 4.84it/s]

Power Factorization: 99%	493/500 [01:44<00:01, 4.98it/s]
Power Factorization: 99%	494/500 [01:45<00:01, 5.03it/s]
Power Factorization: 99%	495/500 [01:45<00:00, 5.08it/s]
Power Factorization: 99%	496/500 [01:45<00:00, 5.09it/s]
Power Factorization: 99%	497/500 [01:45<00:00, 5.07it/s]
Power Factorization: 100%	498/500 [01:45<00:00, 5.11it/s]
Power Factorization: 100%	499/500 [01:46<00:00, 5.08it/s]
Power Factorization: 100%	500/500 [01:46<00:00, 4.71it/s]
Cross Validation: 60%	3/5 [05:08<03:26, 103.42s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:37, 5.10it/s]
Power Factorization: 0%	2/500 [00:00<01:42, 4.87it/s]
Power Factorization: 1%	3/500 [00:00<01:44, 4.78it/s]
Power Factorization: 1%	4/500 [00:00<01:44, 4.74it/s]
Power Factorization: 1%	5/500 [00:01<01:54, 4.31it/s]
Power Factorization: 1%	6/500 [00:01<01:54, 4.31it/s]
Power Factorization: 1%	7/500 [00:01<01:49, 4.50it/s]
Power Factorization: 2%	8/500 [00:01<01:46, 4.60it/s]
Power Factorization: 2%	9/500 [00:01<01:43, 4.73it/s]
Power Factorization: 2%	10/500 [00:02<01:49, 4.49it/s]
Power Factorization: 2%	11/500 [00:02<01:49, 4.47it/s]
Power Factorization: 2%	12/500 [00:02<02:23, 3.40it/s]
Power Factorization: 3%	13/500 [00:03<02:27, 3.31it/s]
Power Factorization: 3%	14/500 [00:03<02:24, 3.37it/s]

Power Factorization:	3%	15/500	[00:03<02:17,	3.52it/s]
Power Factorization:	3%	16/500	[00:03<02:13,	3.61it/s]
Power Factorization:	3%	17/500	[00:04<02:09,	3.74it/s]
Power Factorization:	4%	18/500	[00:04<02:12,	3.63it/s]
Power Factorization:	4%	19/500	[00:04<02:08,	3.73it/s]
Power Factorization:	4%	20/500	[00:05<02:03,	3.87it/s]
Power Factorization:	4%	21/500	[00:05<02:07,	3.74it/s]
Power Factorization:	4%	22/500	[00:05<02:12,	3.62it/s]
Power Factorization:	5%	23/500	[00:05<02:16,	3.49it/s]
Power Factorization:	5%	24/500	[00:06<02:26,	3.25it/s]
Power Factorization:	5%	25/500	[00:06<02:20,	3.38it/s]
Power Factorization:	5%	26/500	[00:06<02:11,	3.60it/s]
Power Factorization:	5%	27/500	[00:07<02:09,	3.66it/s]
Power Factorization:	6%	28/500	[00:07<02:12,	3.57it/s]
Power Factorization:	6%	29/500	[00:07<02:14,	3.50it/s]
Power Factorization:	6%	30/500	[00:07<02:13,	3.51it/s]
Power Factorization:	6%	31/500	[00:08<02:14,	3.49it/s]
Power Factorization:	6%	32/500	[00:08<02:14,	3.49it/s]
Power Factorization:	7%	33/500	[00:08<02:39,	2.92it/s]
Power Factorization:	7%	34/500	[00:09<03:27,	2.25it/s]
Power Factorization:	7%	35/500	[00:10<03:23,	2.28it/s]
Power Factorization:	7%	36/500	[00:10<03:59,	1.94it/s]
Power Factorization:	7%	37/500	[00:11<03:39,	2.11it/s]
Power Factorization:	8%	38/500	[00:11<03:21,	2.29it/s]

Power Factorization:	8%	39/500	[00:11<02:55,	2.63it/s]
Power Factorization:	8%	40/500	[00:12<02:41,	2.85it/s]
Power Factorization:	8%	41/500	[00:12<02:30,	3.04it/s]
Power Factorization:	8%	42/500	[00:12<02:21,	3.24it/s]
Power Factorization:	9%	43/500	[00:12<02:14,	3.40it/s]
Power Factorization:	9%	44/500	[00:13<02:12,	3.45it/s]
Power Factorization:	9%	45/500	[00:13<02:07,	3.57it/s]
Power Factorization:	9%	46/500	[00:13<02:04,	3.65it/s]
Power Factorization:	9%	47/500	[00:13<01:59,	3.79it/s]
Power Factorization:	10%	48/500	[00:14<01:59,	3.79it/s]
Power Factorization:	10%	49/500	[00:14<01:56,	3.86it/s]
Power Factorization:	10%	50/500	[00:14<01:53,	3.97it/s]
Power Factorization:	10%	51/500	[00:14<01:51,	4.04it/s]
Power Factorization:	10%	52/500	[00:15<01:49,	4.09it/s]
Power Factorization:	11%	53/500	[00:15<01:46,	4.21it/s]
Power Factorization:	11%	54/500	[00:15<01:44,	4.25it/s]
Power Factorization:	11%	55/500	[00:15<01:42,	4.35it/s]
Power Factorization:	11%	56/500	[00:15<01:41,	4.38it/s]
Power Factorization:	11%	57/500	[00:16<01:41,	4.37it/s]
Power Factorization:	12%	58/500	[00:16<01:41,	4.37it/s]
Power Factorization:	12%	59/500	[00:16<01:41,	4.34it/s]
Power Factorization:	12%	60/500	[00:16<01:40,	4.38it/s]
Power Factorization:	12%	61/500	[00:17<01:39,	4.41it/s]
Power Factorization:	12%	62/500	[00:17<01:40,	4.37it/s]

Power Factorization: 13%	63/500 [00:17<01:44, 4.18it/s]
Power Factorization: 13%	64/500 [00:17<01:45, 4.12it/s]
Power Factorization: 13%	65/500 [00:18<01:45, 4.14it/s]
Power Factorization: 13%	66/500 [00:18<01:41, 4.29it/s]
Power Factorization: 13%	67/500 [00:18<01:40, 4.29it/s]
Power Factorization: 14%	68/500 [00:18<01:41, 4.27it/s]
Power Factorization: 14%	69/500 [00:19<01:40, 4.28it/s]
Power Factorization: 14%	70/500 [00:19<01:39, 4.34it/s]
Power Factorization: 14%	71/500 [00:19<01:39, 4.32it/s]
Power Factorization: 14%	72/500 [00:19<01:38, 4.34it/s]
Power Factorization: 15%	73/500 [00:19<01:36, 4.42it/s]
Power Factorization: 15%	74/500 [00:20<01:36, 4.44it/s]
Power Factorization: 15%	75/500 [00:20<01:39, 4.26it/s]
Power Factorization: 15%	76/500 [00:20<01:37, 4.34it/s]
Power Factorization: 15%	77/500 [00:20<01:37, 4.33it/s]
Power Factorization: 16%	78/500 [00:21<01:36, 4.40it/s]
Power Factorization: 16%	79/500 [00:21<01:39, 4.23it/s]
Power Factorization: 16%	80/500 [00:21<01:37, 4.31it/s]
Power Factorization: 16%	81/500 [00:21<01:35, 4.40it/s]
Power Factorization: 16%	82/500 [00:22<01:37, 4.30it/s]
Power Factorization: 17%	83/500 [00:22<01:38, 4.22it/s]
Power Factorization: 17%	84/500 [00:22<01:38, 4.22it/s]
Power Factorization: 17%	85/500 [00:22<01:38, 4.20it/s]
Power Factorization: 17%	86/500 [00:22<01:37, 4.24it/s]

Power Factorization: 17%	87/500 [00:23<01:35, 4.33it/s]
Power Factorization: 18%	88/500 [00:23<01:35, 4.34it/s]
Power Factorization: 18%	89/500 [00:23<01:34, 4.33it/s]
Power Factorization: 18%	90/500 [00:23<01:34, 4.35it/s]
Power Factorization: 18%	91/500 [00:24<01:34, 4.32it/s]
Power Factorization: 18%	92/500 [00:24<01:34, 4.32it/s]
Power Factorization: 19%	93/500 [00:24<01:34, 4.32it/s]
Power Factorization: 19%	94/500 [00:24<01:32, 4.38it/s]
Power Factorization: 19%	95/500 [00:25<01:30, 4.49it/s]
Power Factorization: 19%	96/500 [00:25<01:27, 4.61it/s]
Power Factorization: 19%	97/500 [00:25<01:23, 4.83it/s]
Power Factorization: 20%	98/500 [00:25<01:20, 4.99it/s]
Power Factorization: 20%	99/500 [00:25<01:22, 4.88it/s]
Power Factorization: 20%	100/500 [00:26<01:31, 4.37it/s]
Power Factorization: 20%	101/500 [00:26<01:29, 4.47it/s]
Power Factorization: 20%	102/500 [00:26<01:26, 4.58it/s]
Power Factorization: 21%	103/500 [00:26<01:24, 4.72it/s]
Power Factorization: 21%	104/500 [00:26<01:21, 4.85it/s]
Power Factorization: 21%	105/500 [00:27<01:19, 4.98it/s]
Power Factorization: 21%	106/500 [00:27<01:17, 5.08it/s]
Power Factorization: 21%	107/500 [00:27<01:19, 4.97it/s]
Power Factorization: 22%	108/500 [00:27<01:23, 4.69it/s]
Power Factorization: 22%	109/500 [00:27<01:23, 4.70it/s]
Power Factorization: 22%	110/500 [00:28<01:26, 4.49it/s]

Power Factorization: 22%	111/500 [00:28<01:27, 4.43it/s]
Power Factorization: 22%	112/500 [00:28<01:26, 4.49it/s]
Power Factorization: 23%	113/500 [00:28<01:25, 4.51it/s]
Power Factorization: 23%	114/500 [00:29<01:25, 4.52it/s]
Power Factorization: 23%	115/500 [00:29<01:31, 4.19it/s]
Power Factorization: 23%	116/500 [00:29<01:31, 4.20it/s]
Power Factorization: 23%	117/500 [00:29<01:29, 4.29it/s]
Power Factorization: 24%	118/500 [00:30<01:26, 4.41it/s]
Power Factorization: 24%	119/500 [00:30<01:23, 4.56it/s]
Power Factorization: 24%	120/500 [00:30<01:22, 4.62it/s]
Power Factorization: 24%	121/500 [00:30<01:20, 4.72it/s]
Power Factorization: 24%	122/500 [00:30<01:17, 4.89it/s]
Power Factorization: 25%	123/500 [00:31<01:16, 4.95it/s]
Power Factorization: 25%	124/500 [00:31<01:17, 4.84it/s]
Power Factorization: 25%	125/500 [00:31<01:18, 4.77it/s]
Power Factorization: 25%	126/500 [00:31<01:19, 4.72it/s]
Power Factorization: 25%	127/500 [00:31<01:18, 4.74it/s]
Power Factorization: 26%	128/500 [00:32<01:18, 4.76it/s]
Power Factorization: 26%	129/500 [00:32<01:17, 4.77it/s]
Power Factorization: 26%	130/500 [00:32<01:17, 4.75it/s]
Power Factorization: 26%	131/500 [00:32<01:17, 4.77it/s]
Power Factorization: 26%	132/500 [00:32<01:16, 4.84it/s]
Power Factorization: 27%	133/500 [00:33<01:14, 4.96it/s]
Power Factorization: 27%	134/500 [00:33<01:11, 5.08it/s]

Power Factorization: 27%	135/500 [00:33<01:10, 5.19it/s]
Power Factorization: 27%	136/500 [00:33<01:09, 5.22it/s]
Power Factorization: 27%	137/500 [00:33<01:09, 5.24it/s]
Power Factorization: 28%	138/500 [00:34<01:09, 5.20it/s]
Power Factorization: 28%	139/500 [00:34<01:10, 5.14it/s]
Power Factorization: 28%	140/500 [00:34<01:11, 5.03it/s]
Power Factorization: 28%	141/500 [00:34<01:12, 4.98it/s]
Power Factorization: 28%	142/500 [00:34<01:11, 4.98it/s]
Power Factorization: 29%	143/500 [00:35<01:10, 5.07it/s]
Power Factorization: 29%	144/500 [00:35<01:11, 4.96it/s]
Power Factorization: 29%	145/500 [00:35<01:12, 4.93it/s]
Power Factorization: 29%	146/500 [00:35<01:11, 4.93it/s]
Power Factorization: 29%	147/500 [00:35<01:10, 5.02it/s]
Power Factorization: 30%	148/500 [00:36<01:08, 5.13it/s]
Power Factorization: 30%	149/500 [00:36<01:07, 5.16it/s]
Power Factorization: 30%	150/500 [00:36<01:06, 5.24it/s]
Power Factorization: 30%	151/500 [00:36<01:06, 5.29it/s]
Power Factorization: 30%	152/500 [00:36<01:05, 5.29it/s]
Power Factorization: 31%	153/500 [00:36<01:05, 5.32it/s]
Power Factorization: 31%	154/500 [00:37<01:06, 5.21it/s]
Power Factorization: 31%	155/500 [00:37<01:07, 5.09it/s]
Power Factorization: 31%	156/500 [00:37<01:08, 5.01it/s]
Power Factorization: 31%	157/500 [00:37<01:08, 4.99it/s]
Power Factorization: 32%	158/500 [00:37<01:07, 5.07it/s]

Power Factorization: 32%	159/500 [00:38<01:07, 5.08it/s]
Power Factorization: 32%	160/500 [00:38<01:06, 5.12it/s]
Power Factorization: 32%	161/500 [00:38<01:05, 5.17it/s]
Power Factorization: 32%	162/500 [00:38<01:05, 5.18it/s]
Power Factorization: 33%	163/500 [00:38<01:04, 5.21it/s]
Power Factorization: 33%	164/500 [00:39<01:04, 5.18it/s]
Power Factorization: 33%	165/500 [00:39<01:03, 5.24it/s]
Power Factorization: 33%	166/500 [00:39<01:03, 5.27it/s]
Power Factorization: 33%	167/500 [00:39<01:03, 5.23it/s]
Power Factorization: 34%	168/500 [00:39<01:02, 5.29it/s]
Power Factorization: 34%	169/500 [00:40<01:02, 5.28it/s]
Power Factorization: 34%	170/500 [00:40<01:02, 5.27it/s]
Power Factorization: 34%	171/500 [00:40<01:02, 5.28it/s]
Power Factorization: 34%	172/500 [00:40<01:02, 5.28it/s]
Power Factorization: 35%	173/500 [00:40<01:02, 5.27it/s]
Power Factorization: 35%	174/500 [00:41<01:00, 5.35it/s]
Power Factorization: 35%	175/500 [00:41<00:59, 5.42it/s]
Power Factorization: 35%	176/500 [00:41<00:57, 5.63it/s]
Power Factorization: 35%	177/500 [00:41<00:56, 5.69it/s]
Power Factorization: 36%	178/500 [00:41<00:56, 5.66it/s]
Power Factorization: 36%	179/500 [00:41<00:55, 5.73it/s]
Power Factorization: 36%	180/500 [00:42<00:55, 5.78it/s]
Power Factorization: 36%	181/500 [00:42<00:55, 5.75it/s]
Power Factorization: 36%	182/500 [00:42<00:55, 5.73it/s]

Power Factorization: 37%	183/500 [00:42<00:55, 5.75it/s]
Power Factorization: 37%	184/500 [00:42<00:54, 5.81it/s]
Power Factorization: 37%	185/500 [00:42<00:53, 5.93it/s]
Power Factorization: 37%	186/500 [00:43<00:51, 6.05it/s]
Power Factorization: 37%	187/500 [00:43<00:50, 6.17it/s]
Power Factorization: 38%	188/500 [00:43<00:49, 6.26it/s]
Power Factorization: 38%	189/500 [00:43<00:48, 6.35it/s]
Power Factorization: 38%	190/500 [00:43<00:48, 6.36it/s]
Power Factorization: 38%	191/500 [00:43<00:48, 6.40it/s]
Power Factorization: 38%	192/500 [00:43<00:48, 6.41it/s]
Power Factorization: 39%	193/500 [00:44<00:47, 6.43it/s]
Power Factorization: 39%	194/500 [00:44<00:47, 6.44it/s]
Power Factorization: 39%	195/500 [00:44<00:47, 6.44it/s]
Power Factorization: 39%	196/500 [00:44<00:47, 6.45it/s]
Power Factorization: 39%	197/500 [00:44<00:46, 6.48it/s]
Power Factorization: 40%	198/500 [00:44<00:46, 6.51it/s]
Power Factorization: 40%	199/500 [00:45<00:48, 6.19it/s]
Power Factorization: 40%	200/500 [00:45<00:49, 6.03it/s]
Power Factorization: 40%	201/500 [00:45<00:53, 5.56it/s]
Power Factorization: 40%	202/500 [00:45<00:54, 5.44it/s]
Power Factorization: 41%	203/500 [00:45<00:54, 5.42it/s]
Power Factorization: 41%	204/500 [00:46<00:54, 5.43it/s]
Power Factorization: 41%	205/500 [00:46<00:53, 5.48it/s]
Power Factorization: 41%	206/500 [00:46<00:53, 5.53it/s]

Power Factorization: 41%	207/500 [00:46<00:52, 5.61it/s]
Power Factorization: 42%	208/500 [00:46<00:51, 5.68it/s]
Power Factorization: 42%	209/500 [00:46<00:50, 5.76it/s]
Power Factorization: 42%	210/500 [00:47<00:50, 5.70it/s]
Power Factorization: 42%	211/500 [00:47<00:50, 5.68it/s]
Power Factorization: 42%	212/500 [00:47<00:49, 5.77it/s]
Power Factorization: 43%	213/500 [00:47<00:48, 5.90it/s]
Power Factorization: 43%	214/500 [00:47<00:47, 6.01it/s]
Power Factorization: 43%	215/500 [00:47<00:46, 6.11it/s]
Power Factorization: 43%	216/500 [00:48<00:45, 6.21it/s]
Power Factorization: 43%	217/500 [00:48<00:44, 6.30it/s]
Power Factorization: 44%	218/500 [00:48<00:44, 6.35it/s]
Power Factorization: 44%	219/500 [00:48<00:43, 6.42it/s]
Power Factorization: 44%	220/500 [00:48<00:43, 6.46it/s]
Power Factorization: 44%	221/500 [00:48<00:43, 6.48it/s]
Power Factorization: 44%	222/500 [00:48<00:42, 6.53it/s]
Power Factorization: 45%	223/500 [00:49<00:42, 6.57it/s]
Power Factorization: 45%	224/500 [00:49<00:41, 6.59it/s]
Power Factorization: 45%	225/500 [00:49<00:41, 6.62it/s]
Power Factorization: 45%	226/500 [00:49<00:41, 6.61it/s]
Power Factorization: 45%	227/500 [00:49<00:41, 6.57it/s]
Power Factorization: 46%	228/500 [00:49<00:41, 6.56it/s]
Power Factorization: 46%	229/500 [00:50<00:41, 6.59it/s]
Power Factorization: 46%	230/500 [00:50<00:41, 6.57it/s]

Power Factorization: 46%	231/500 [00:50<00:41, 6.56it/s]
Power Factorization: 46%	232/500 [00:50<00:40, 6.62it/s]
Power Factorization: 47%	233/500 [00:50<00:40, 6.61it/s]
Power Factorization: 47%	234/500 [00:50<00:40, 6.60it/s]
Power Factorization: 47%	235/500 [00:50<00:39, 6.63it/s]
Power Factorization: 47%	236/500 [00:51<00:40, 6.55it/s]
Power Factorization: 47%	237/500 [00:51<00:40, 6.44it/s]
Power Factorization: 48%	238/500 [00:51<00:41, 6.38it/s]
Power Factorization: 48%	239/500 [00:51<00:41, 6.29it/s]
Power Factorization: 48%	240/500 [00:51<00:42, 6.13it/s]
Power Factorization: 48%	241/500 [00:51<00:42, 6.14it/s]
Power Factorization: 48%	242/500 [00:52<00:41, 6.21it/s]
Power Factorization: 49%	243/500 [00:52<00:40, 6.30it/s]
Power Factorization: 49%	244/500 [00:52<00:40, 6.38it/s]
Power Factorization: 49%	245/500 [00:52<00:39, 6.43it/s]
Power Factorization: 49%	246/500 [00:52<00:38, 6.52it/s]
Power Factorization: 49%	247/500 [00:52<00:39, 6.48it/s]
Power Factorization: 50%	248/500 [00:52<00:39, 6.45it/s]
Power Factorization: 50%	249/500 [00:53<00:38, 6.45it/s]
Power Factorization: 50%	250/500 [00:53<00:38, 6.46it/s]
Power Factorization: 50%	251/500 [00:53<00:39, 6.29it/s]
Power Factorization: 50%	252/500 [00:53<00:38, 6.36it/s]
Power Factorization: 51%	253/500 [00:53<00:38, 6.38it/s]
Power Factorization: 51%	254/500 [00:53<00:38, 6.40it/s]

Power Factorization: 51%	255/500 [00:54<00:38, 6.37it/s]
Power Factorization: 51%	256/500 [00:54<00:38, 6.38it/s]
Power Factorization: 51%	257/500 [00:54<00:37, 6.40it/s]
Power Factorization: 52%	258/500 [00:54<00:37, 6.43it/s]
Power Factorization: 52%	259/500 [00:54<00:36, 6.54it/s]
Power Factorization: 52%	260/500 [00:54<00:36, 6.57it/s]
Power Factorization: 52%	261/500 [00:55<00:36, 6.59it/s]
Power Factorization: 52%	262/500 [00:55<00:36, 6.60it/s]
Power Factorization: 53%	263/500 [00:55<00:35, 6.60it/s]
Power Factorization: 53%	264/500 [00:55<00:35, 6.61it/s]
Power Factorization: 53%	265/500 [00:55<00:35, 6.58it/s]
Power Factorization: 53%	266/500 [00:55<00:35, 6.57it/s]
Power Factorization: 53%	267/500 [00:55<00:35, 6.59it/s]
Power Factorization: 54%	268/500 [00:56<00:35, 6.58it/s]
Power Factorization: 54%	269/500 [00:56<00:35, 6.56it/s]
Power Factorization: 54%	270/500 [00:56<00:34, 6.58it/s]
Power Factorization: 54%	271/500 [00:56<00:35, 6.51it/s]
Power Factorization: 54%	272/500 [00:56<00:35, 6.41it/s]
Power Factorization: 55%	273/500 [00:56<00:35, 6.31it/s]
Power Factorization: 55%	274/500 [00:57<00:36, 6.25it/s]
Power Factorization: 55%	275/500 [00:57<00:36, 6.23it/s]
Power Factorization: 55%	276/500 [00:57<00:36, 6.18it/s]
Power Factorization: 55%	277/500 [00:57<00:36, 6.15it/s]
Power Factorization: 56%	278/500 [00:57<00:36, 6.14it/s]

Power Factorization: 56%	279/500 [00:57<00:35, 6.16it/s]
Power Factorization: 56%	280/500 [00:57<00:35, 6.25it/s]
Power Factorization: 56%	281/500 [00:58<00:34, 6.29it/s]
Power Factorization: 56%	282/500 [00:58<00:34, 6.33it/s]
Power Factorization: 57%	283/500 [00:58<00:34, 6.38it/s]
Power Factorization: 57%	284/500 [00:58<00:33, 6.45it/s]
Power Factorization: 57%	285/500 [00:58<00:33, 6.47it/s]
Power Factorization: 57%	286/500 [00:58<00:33, 6.41it/s]
Power Factorization: 57%	287/500 [00:59<00:33, 6.31it/s]
Power Factorization: 58%	288/500 [00:59<00:33, 6.29it/s]
Power Factorization: 58%	289/500 [00:59<00:33, 6.35it/s]
Power Factorization: 58%	290/500 [00:59<00:33, 6.34it/s]
Power Factorization: 58%	291/500 [00:59<00:32, 6.40it/s]
Power Factorization: 58%	292/500 [00:59<00:32, 6.42it/s]
Power Factorization: 59%	293/500 [01:00<00:32, 6.46it/s]
Power Factorization: 59%	294/500 [01:00<00:31, 6.52it/s]
Power Factorization: 59%	295/500 [01:00<00:31, 6.52it/s]
Power Factorization: 59%	296/500 [01:00<00:31, 6.58it/s]
Power Factorization: 59%	297/500 [01:00<00:30, 6.55it/s]
Power Factorization: 60%	298/500 [01:00<00:30, 6.54it/s]
Power Factorization: 60%	299/500 [01:00<00:31, 6.48it/s]
Power Factorization: 60%	300/500 [01:01<00:30, 6.55it/s]
Power Factorization: 60%	301/500 [01:01<00:30, 6.54it/s]
Power Factorization: 60%	302/500 [01:01<00:30, 6.52it/s]

Power Factorization: 61%	303/500 [01:01<00:30, 6.49it/s]
Power Factorization: 61%	304/500 [01:01<00:29, 6.53it/s]
Power Factorization: 61%	305/500 [01:01<00:29, 6.56it/s]
Power Factorization: 61%	306/500 [01:01<00:29, 6.57it/s]
Power Factorization: 61%	307/500 [01:02<00:29, 6.58it/s]
Power Factorization: 62%	308/500 [01:02<00:29, 6.61it/s]
Power Factorization: 62%	309/500 [01:02<00:28, 6.61it/s]
Power Factorization: 62%	310/500 [01:02<00:28, 6.58it/s]
Power Factorization: 62%	311/500 [01:02<00:29, 6.43it/s]
Power Factorization: 62%	312/500 [01:02<00:29, 6.36it/s]
Power Factorization: 63%	313/500 [01:03<00:29, 6.37it/s]
Power Factorization: 63%	314/500 [01:03<00:29, 6.39it/s]
Power Factorization: 63%	315/500 [01:03<00:28, 6.44it/s]
Power Factorization: 63%	316/500 [01:03<00:28, 6.48it/s]
Power Factorization: 63%	317/500 [01:03<00:28, 6.50it/s]
Power Factorization: 64%	318/500 [01:03<00:28, 6.48it/s]
Power Factorization: 64%	319/500 [01:04<00:27, 6.47it/s]
Power Factorization: 64%	320/500 [01:04<00:27, 6.49it/s]
Power Factorization: 64%	321/500 [01:04<00:27, 6.45it/s]
Power Factorization: 64%	322/500 [01:04<00:27, 6.47it/s]
Power Factorization: 65%	323/500 [01:04<00:27, 6.46it/s]
Power Factorization: 65%	324/500 [01:04<00:28, 6.18it/s]
Power Factorization: 65%	325/500 [01:04<00:28, 6.17it/s]
Power Factorization: 65%	326/500 [01:05<00:28, 6.13it/s]

Power Factorization: 65%	327/500 [01:05<00:28, 6.13it/s]
Power Factorization: 66%	328/500 [01:05<00:27, 6.15it/s]
Power Factorization: 66%	329/500 [01:05<00:27, 6.23it/s]
Power Factorization: 66%	330/500 [01:05<00:27, 6.29it/s]
Power Factorization: 66%	331/500 [01:05<00:26, 6.36it/s]
Power Factorization: 66%	332/500 [01:06<00:26, 6.40it/s]
Power Factorization: 67%	333/500 [01:06<00:26, 6.39it/s]
Power Factorization: 67%	334/500 [01:06<00:26, 6.36it/s]
Power Factorization: 67%	335/500 [01:06<00:25, 6.37it/s]
Power Factorization: 67%	336/500 [01:06<00:25, 6.40it/s]
Power Factorization: 67%	337/500 [01:06<00:25, 6.43it/s]
Power Factorization: 68%	338/500 [01:07<00:25, 6.45it/s]
Power Factorization: 68%	339/500 [01:07<00:28, 5.64it/s]
Power Factorization: 68%	340/500 [01:07<00:30, 5.30it/s]
Power Factorization: 68%	341/500 [01:07<00:33, 4.76it/s]
Power Factorization: 68%	342/500 [01:07<00:32, 4.84it/s]
Power Factorization: 69%	343/500 [01:08<00:31, 5.03it/s]
Power Factorization: 69%	344/500 [01:08<00:29, 5.23it/s]
Power Factorization: 69%	345/500 [01:08<00:29, 5.23it/s]
Power Factorization: 69%	346/500 [01:08<00:29, 5.24it/s]
Power Factorization: 69%	347/500 [01:08<00:29, 5.21it/s]
Power Factorization: 70%	348/500 [01:09<00:28, 5.30it/s]
Power Factorization: 70%	349/500 [01:09<00:27, 5.43it/s]
Power Factorization: 70%	350/500 [01:09<00:26, 5.62it/s]

Power Factorization: 70%	351/500 [01:09<00:25, 5.78it/s]
Power Factorization: 70%	352/500 [01:09<00:25, 5.89it/s]
Power Factorization: 71%	353/500 [01:09<00:24, 6.06it/s]
Power Factorization: 71%	354/500 [01:09<00:23, 6.16it/s]
Power Factorization: 71%	355/500 [01:10<00:23, 6.16it/s]
Power Factorization: 71%	356/500 [01:10<00:23, 6.18it/s]
Power Factorization: 71%	357/500 [01:10<00:23, 6.19it/s]
Power Factorization: 72%	358/500 [01:10<00:22, 6.22it/s]
Power Factorization: 72%	359/500 [01:10<00:23, 6.04it/s]
Power Factorization: 72%	360/500 [01:11<00:24, 5.67it/s]
Power Factorization: 72%	361/500 [01:11<00:24, 5.58it/s]
Power Factorization: 72%	362/500 [01:11<00:25, 5.49it/s]
Power Factorization: 73%	363/500 [01:11<00:25, 5.44it/s]
Power Factorization: 73%	364/500 [01:11<00:25, 5.42it/s]
Power Factorization: 73%	365/500 [01:11<00:24, 5.43it/s]
Power Factorization: 73%	366/500 [01:12<00:24, 5.42it/s]
Power Factorization: 73%	367/500 [01:12<00:24, 5.34it/s]
Power Factorization: 74%	368/500 [01:12<00:24, 5.35it/s]
Power Factorization: 74%	369/500 [01:12<00:25, 5.07it/s]
Power Factorization: 74%	370/500 [01:12<00:25, 5.04it/s]
Power Factorization: 74%	371/500 [01:13<00:25, 5.00it/s]
Power Factorization: 74%	372/500 [01:13<00:25, 5.04it/s]
Power Factorization: 75%	373/500 [01:13<00:24, 5.12it/s]
Power Factorization: 75%	374/500 [01:13<00:25, 5.04it/s]

Power Factorization: 75%	375/500 [01:13<00:24,	5.20it/s]
Power Factorization: 75%	376/500 [01:14<00:23,	5.30it/s]
Power Factorization: 75%	377/500 [01:14<00:24,	5.01it/s]
Power Factorization: 76%	378/500 [01:14<00:23,	5.12it/s]
Power Factorization: 76%	379/500 [01:14<00:23,	5.25it/s]
Power Factorization: 76%	380/500 [01:14<00:22,	5.43it/s]
Power Factorization: 76%	381/500 [01:15<00:21,	5.52it/s]
Power Factorization: 76%	382/500 [01:15<00:20,	5.71it/s]
Power Factorization: 77%	383/500 [01:15<00:19,	5.86it/s]
Power Factorization: 77%	384/500 [01:15<00:19,	5.96it/s]
Power Factorization: 77%	385/500 [01:15<00:19,	5.85it/s]
Power Factorization: 77%	386/500 [01:15<00:19,	5.83it/s]
Power Factorization: 77%	387/500 [01:16<00:19,	5.85it/s]
Power Factorization: 78%	388/500 [01:16<00:19,	5.63it/s]
Power Factorization: 78%	389/500 [01:16<00:19,	5.65it/s]
Power Factorization: 78%	390/500 [01:16<00:19,	5.77it/s]
Power Factorization: 78%	391/500 [01:16<00:18,	5.87it/s]
Power Factorization: 78%	392/500 [01:16<00:17,	6.01it/s]
Power Factorization: 79%	393/500 [01:17<00:17,	6.14it/s]
Power Factorization: 79%	394/500 [01:17<00:17,	6.20it/s]
Power Factorization: 79%	395/500 [01:17<00:16,	6.26it/s]
Power Factorization: 79%	396/500 [01:17<00:16,	6.31it/s]
Power Factorization: 79%	397/500 [01:17<00:16,	6.39it/s]
Power Factorization: 80%	398/500 [01:17<00:16,	6.09it/s]

Power Factorization: 80%	399/500 [01:18<00:16,	5.98it/s]
Power Factorization: 80%	400/500 [01:18<00:17,	5.86it/s]
Power Factorization: 80%	401/500 [01:18<00:17,	5.82it/s]
Power Factorization: 80%	402/500 [01:18<00:16,	5.85it/s]
Power Factorization: 81%	403/500 [01:18<00:16,	5.95it/s]
Power Factorization: 81%	404/500 [01:18<00:15,	6.07it/s]
Power Factorization: 81%	405/500 [01:19<00:15,	6.18it/s]
Power Factorization: 81%	406/500 [01:19<00:15,	6.20it/s]
Power Factorization: 81%	407/500 [01:19<00:14,	6.26it/s]
Power Factorization: 82%	408/500 [01:19<00:14,	6.30it/s]
Power Factorization: 82%	409/500 [01:19<00:14,	6.31it/s]
Power Factorization: 82%	410/500 [01:19<00:14,	6.32it/s]
Power Factorization: 82%	411/500 [01:19<00:13,	6.38it/s]
Power Factorization: 82%	412/500 [01:20<00:13,	6.40it/s]
Power Factorization: 83%	413/500 [01:20<00:13,	6.41it/s]
Power Factorization: 83%	414/500 [01:20<00:13,	6.39it/s]
Power Factorization: 83%	415/500 [01:20<00:13,	6.40it/s]
Power Factorization: 83%	416/500 [01:20<00:13,	6.45it/s]
Power Factorization: 83%	417/500 [01:20<00:12,	6.53it/s]
Power Factorization: 84%	418/500 [01:21<00:12,	6.58it/s]
Power Factorization: 84%	419/500 [01:21<00:12,	6.61it/s]
Power Factorization: 84%	420/500 [01:21<00:12,	6.61it/s]
Power Factorization: 84%	421/500 [01:21<00:11,	6.65it/s]
Power Factorization: 84%	422/500 [01:21<00:11,	6.63it/s]

Power Factorization: 85%	423/500 [01:21<00:11,	6.48it/s]
Power Factorization: 85%	424/500 [01:21<00:11,	6.44it/s]
Power Factorization: 85%	425/500 [01:22<00:11,	6.43it/s]
Power Factorization: 85%	426/500 [01:22<00:11,	6.40it/s]
Power Factorization: 85%	427/500 [01:22<00:11,	6.42it/s]
Power Factorization: 86%	428/500 [01:22<00:11,	6.48it/s]
Power Factorization: 86%	429/500 [01:22<00:10,	6.54it/s]
Power Factorization: 86%	430/500 [01:22<00:10,	6.55it/s]
Power Factorization: 86%	431/500 [01:23<00:10,	6.52it/s]
Power Factorization: 86%	432/500 [01:23<00:10,	6.57it/s]
Power Factorization: 87%	433/500 [01:23<00:10,	6.61it/s]
Power Factorization: 87%	434/500 [01:23<00:10,	6.57it/s]
Power Factorization: 87%	435/500 [01:23<00:09,	6.54it/s]
Power Factorization: 87%	436/500 [01:23<00:09,	6.63it/s]
Power Factorization: 87%	437/500 [01:23<00:09,	6.53it/s]
Power Factorization: 88%	438/500 [01:24<00:09,	6.33it/s]
Power Factorization: 88%	439/500 [01:24<00:09,	6.20it/s]
Power Factorization: 88%	440/500 [01:24<00:09,	6.09it/s]
Power Factorization: 88%	441/500 [01:24<00:09,	5.92it/s]
Power Factorization: 88%	442/500 [01:24<00:09,	5.99it/s]
Power Factorization: 89%	443/500 [01:24<00:09,	5.90it/s]
Power Factorization: 89%	444/500 [01:25<00:09,	5.88it/s]
Power Factorization: 89%	445/500 [01:25<00:09,	5.94it/s]
Power Factorization: 89%	446/500 [01:25<00:08,	6.09it/s]

Power Factorization: 89%	447/500 [01:25<00:08,	6.23it/s]
Power Factorization: 90%	448/500 [01:25<00:08,	6.36it/s]
Power Factorization: 90%	449/500 [01:25<00:07,	6.44it/s]
Power Factorization: 90%	450/500 [01:26<00:07,	6.49it/s]
Power Factorization: 90%	451/500 [01:26<00:07,	6.50it/s]
Power Factorization: 90%	452/500 [01:26<00:07,	6.54it/s]
Power Factorization: 91%	453/500 [01:26<00:07,	6.55it/s]
Power Factorization: 91%	454/500 [01:26<00:06,	6.60it/s]
Power Factorization: 91%	455/500 [01:26<00:06,	6.62it/s]
Power Factorization: 91%	456/500 [01:26<00:06,	6.61it/s]
Power Factorization: 91%	457/500 [01:27<00:06,	6.61it/s]
Power Factorization: 92%	458/500 [01:27<00:06,	6.60it/s]
Power Factorization: 92%	459/500 [01:27<00:06,	6.65it/s]
Power Factorization: 92%	460/500 [01:27<00:06,	6.62it/s]
Power Factorization: 92%	461/500 [01:27<00:05,	6.64it/s]
Power Factorization: 92%	462/500 [01:27<00:05,	6.64it/s]
Power Factorization: 93%	463/500 [01:28<00:05,	6.66it/s]
Power Factorization: 93%	464/500 [01:28<00:05,	6.63it/s]
Power Factorization: 93%	465/500 [01:28<00:05,	6.61it/s]
Power Factorization: 93%	466/500 [01:28<00:05,	6.60it/s]
Power Factorization: 93%	467/500 [01:28<00:05,	6.59it/s]
Power Factorization: 94%	468/500 [01:28<00:04,	6.58it/s]
Power Factorization: 94%	469/500 [01:28<00:04,	6.60it/s]
Power Factorization: 94%	470/500 [01:29<00:04,	6.55it/s]

Power Factorization: 94%	471/500 [01:29<00:04,	6.56it/s]
Power Factorization: 94%	472/500 [01:29<00:04,	6.50it/s]
Power Factorization: 95%	473/500 [01:29<00:04,	6.26it/s]
Power Factorization: 95%	474/500 [01:29<00:04,	6.22it/s]
Power Factorization: 95%	475/500 [01:29<00:04,	6.25it/s]
Power Factorization: 95%	476/500 [01:30<00:03,	6.32it/s]
Power Factorization: 95%	477/500 [01:30<00:03,	6.36it/s]
Power Factorization: 96%	478/500 [01:30<00:03,	6.39it/s]
Power Factorization: 96%	479/500 [01:30<00:03,	6.42it/s]
Power Factorization: 96%	480/500 [01:30<00:03,	6.50it/s]
Power Factorization: 96%	481/500 [01:30<00:02,	6.51it/s]
Power Factorization: 96%	482/500 [01:30<00:02,	6.56it/s]
Power Factorization: 97%	483/500 [01:31<00:02,	6.54it/s]
Power Factorization: 97%	484/500 [01:31<00:02,	6.61it/s]
Power Factorization: 97%	485/500 [01:31<00:02,	6.59it/s]
Power Factorization: 97%	486/500 [01:31<00:02,	6.63it/s]
Power Factorization: 97%	487/500 [01:31<00:01,	6.62it/s]
Power Factorization: 98%	488/500 [01:31<00:01,	6.60it/s]
Power Factorization: 98%	489/500 [01:32<00:01,	6.61it/s]
Power Factorization: 98%	490/500 [01:32<00:01,	6.54it/s]
Power Factorization: 98%	491/500 [01:32<00:01,	6.16it/s]
Power Factorization: 98%	492/500 [01:32<00:01,	5.83it/s]
Power Factorization: 99%	493/500 [01:32<00:01,	5.69it/s]
Power Factorization: 99%	494/500 [01:32<00:01,	5.78it/s]

Power Factorization: 99%	495/500 [01:33<00:00, 5.81it/s]
Power Factorization: 99%	496/500 [01:33<00:00, 5.65it/s]
Power Factorization: 99%	497/500 [01:33<00:00, 5.51it/s]
Power Factorization: 100%	498/500 [01:33<00:00, 5.22it/s]
Power Factorization: 100%	499/500 [01:33<00:00, 5.07it/s]
Power Factorization: 100%	500/500 [01:34<00:00, 5.31it/s]
Cross Validation: 80%	4/5 [06:42<01:39, 99.75s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:49, 4.57it/s]
Power Factorization: 0%	2/500 [00:00<01:40, 4.94it/s]
Power Factorization: 1%	3/500 [00:00<01:38, 5.04it/s]
Power Factorization: 1%	4/500 [00:00<01:36, 5.16it/s]
Power Factorization: 1%	5/500 [00:00<01:34, 5.25it/s]
Power Factorization: 1%	6/500 [00:01<01:33, 5.31it/s]
Power Factorization: 1%	7/500 [00:01<01:33, 5.25it/s]
Power Factorization: 2%	8/500 [00:01<01:32, 5.32it/s]
Power Factorization: 2%	9/500 [00:01<01:32, 5.29it/s]
Power Factorization: 2%	10/500 [00:01<01:33, 5.26it/s]
Power Factorization: 2%	11/500 [00:02<01:53, 4.32it/s]
Power Factorization: 2%	12/500 [00:02<01:57, 4.14it/s]
Power Factorization: 3%	13/500 [00:02<01:53, 4.31it/s]
Power Factorization: 3%	14/500 [00:02<01:56, 4.16it/s]
Power Factorization: 3%	15/500 [00:03<01:57, 4.13it/s]
Power Factorization: 3%	16/500 [00:03<02:11, 3.69it/s]

Power Factorization:	3%	17/500	[00:03<02:03,	3.91it/s]
Power Factorization:	4%	18/500	[00:04<02:08,	3.74it/s]
Power Factorization:	4%	19/500	[00:04<01:59,	4.03it/s]
Power Factorization:	4%	20/500	[00:04<01:57,	4.08it/s]
Power Factorization:	4%	21/500	[00:04<01:49,	4.36it/s]
Power Factorization:	4%	22/500	[00:04<01:44,	4.56it/s]
Power Factorization:	5%	23/500	[00:05<01:49,	4.37it/s]
Power Factorization:	5%	24/500	[00:05<01:51,	4.26it/s]
Power Factorization:	5%	25/500	[00:05<01:53,	4.19it/s]
Power Factorization:	5%	26/500	[00:05<02:06,	3.76it/s]
Power Factorization:	5%	27/500	[00:06<02:16,	3.48it/s]
Power Factorization:	6%	28/500	[00:06<02:22,	3.31it/s]
Power Factorization:	6%	29/500	[00:07<02:29,	3.14it/s]
Power Factorization:	6%	30/500	[00:07<02:39,	2.95it/s]
Power Factorization:	6%	31/500	[00:07<02:36,	2.99it/s]
Power Factorization:	6%	32/500	[00:07<02:26,	3.20it/s]
Power Factorization:	7%	33/500	[00:08<02:23,	3.26it/s]
Power Factorization:	7%	34/500	[00:08<02:16,	3.42it/s]
Power Factorization:	7%	35/500	[00:08<02:06,	3.66it/s]
Power Factorization:	7%	36/500	[00:08<01:53,	4.09it/s]
Power Factorization:	7%	37/500	[00:09<01:42,	4.50it/s]
Power Factorization:	8%	38/500	[00:09<01:34,	4.90it/s]
Power Factorization:	8%	39/500	[00:09<01:27,	5.26it/s]
Power Factorization:	8%	40/500	[00:09<01:22,	5.56it/s]

Power Factorization:	8%	41/500	[00:09<01:18,	5.81it/s]
Power Factorization:	8%	42/500	[00:09<01:16,	6.02it/s]
Power Factorization:	9%	43/500	[00:10<01:13,	6.18it/s]
Power Factorization:	9%	44/500	[00:10<01:12,	6.28it/s]
Power Factorization:	9%	45/500	[00:10<01:11,	6.37it/s]
Power Factorization:	9%	46/500	[00:10<01:10,	6.47it/s]
Power Factorization:	9%	47/500	[00:10<01:10,	6.44it/s]
Power Factorization:	10%	48/500	[00:10<01:10,	6.38it/s]
Power Factorization:	10%	49/500	[00:10<01:10,	6.40it/s]
Power Factorization:	10%	50/500	[00:11<01:11,	6.30it/s]
Power Factorization:	10%	51/500	[00:11<01:14,	6.06it/s]
Power Factorization:	10%	52/500	[00:11<01:13,	6.09it/s]
Power Factorization:	11%	53/500	[00:11<01:12,	6.15it/s]
Power Factorization:	11%	54/500	[00:11<01:11,	6.24it/s]
Power Factorization:	11%	55/500	[00:11<01:10,	6.33it/s]
Power Factorization:	11%	56/500	[00:12<01:23,	5.34it/s]
Power Factorization:	11%	57/500	[00:12<01:20,	5.48it/s]
Power Factorization:	12%	58/500	[00:12<01:18,	5.65it/s]
Power Factorization:	12%	59/500	[00:12<01:17,	5.69it/s]
Power Factorization:	12%	60/500	[00:12<01:18,	5.64it/s]
Power Factorization:	12%	61/500	[00:13<01:16,	5.77it/s]
Power Factorization:	12%	62/500	[00:13<01:14,	5.90it/s]
Power Factorization:	13%	63/500	[00:13<01:12,	6.06it/s]
Power Factorization:	13%	64/500	[00:13<01:10,	6.20it/s]

Power Factorization: 13%	65/500 [00:13<01:09, 6.25it/s]
Power Factorization: 13%	66/500 [00:13<01:08, 6.32it/s]
Power Factorization: 13%	67/500 [00:13<01:08, 6.36it/s]
Power Factorization: 14%	68/500 [00:14<01:07, 6.41it/s]
Power Factorization: 14%	69/500 [00:14<01:07, 6.42it/s]
Power Factorization: 14%	70/500 [00:14<01:07, 6.38it/s]
Power Factorization: 14%	71/500 [00:14<01:07, 6.40it/s]
Power Factorization: 14%	72/500 [00:14<01:06, 6.43it/s]
Power Factorization: 15%	73/500 [00:14<01:06, 6.42it/s]
Power Factorization: 15%	74/500 [00:15<01:07, 6.27it/s]
Power Factorization: 15%	75/500 [00:15<01:08, 6.20it/s]
Power Factorization: 15%	76/500 [00:15<01:08, 6.19it/s]
Power Factorization: 15%	77/500 [00:15<01:08, 6.15it/s]
Power Factorization: 16%	78/500 [00:15<01:07, 6.21it/s]
Power Factorization: 16%	79/500 [00:15<01:07, 6.24it/s]
Power Factorization: 16%	80/500 [00:16<01:17, 5.39it/s]
Power Factorization: 16%	81/500 [00:16<01:21, 5.13it/s]
Power Factorization: 16%	82/500 [00:16<01:22, 5.09it/s]
Power Factorization: 17%	83/500 [00:16<01:43, 4.02it/s]
Power Factorization: 17%	84/500 [00:17<01:38, 4.23it/s]
Power Factorization: 17%	85/500 [00:17<01:35, 4.37it/s]
Power Factorization: 17%	86/500 [00:17<01:31, 4.51it/s]
Power Factorization: 17%	87/500 [00:17<01:28, 4.66it/s]
Power Factorization: 18%	88/500 [00:17<01:26, 4.79it/s]

Power Factorization: 18%	89/500 [00:18<01:26, 4.75it/s]
Power Factorization: 18%	90/500 [00:18<01:29, 4.58it/s]
Power Factorization: 18%	91/500 [00:18<01:28, 4.62it/s]
Power Factorization: 18%	92/500 [00:18<01:32, 4.40it/s]
Power Factorization: 19%	93/500 [00:19<01:39, 4.07it/s]
Power Factorization: 19%	94/500 [00:19<01:39, 4.10it/s]
Power Factorization: 19%	95/500 [00:19<01:40, 4.03it/s]
Power Factorization: 19%	96/500 [00:19<01:38, 4.08it/s]
Power Factorization: 19%	97/500 [00:20<01:32, 4.35it/s]
Power Factorization: 20%	98/500 [00:20<01:28, 4.52it/s]
Power Factorization: 20%	99/500 [00:20<01:26, 4.65it/s]
Power Factorization: 20%	100/500 [00:20<01:23, 4.80it/s]
Power Factorization: 20%	101/500 [00:20<01:20, 4.95it/s]
Power Factorization: 20%	102/500 [00:21<01:18, 5.06it/s]
Power Factorization: 21%	103/500 [00:21<01:17, 5.15it/s]
Power Factorization: 21%	104/500 [00:21<01:14, 5.31it/s]
Power Factorization: 21%	105/500 [00:21<01:12, 5.43it/s]
Power Factorization: 21%	106/500 [00:21<01:11, 5.51it/s]
Power Factorization: 21%	107/500 [00:21<01:10, 5.55it/s]
Power Factorization: 22%	108/500 [00:22<01:10, 5.54it/s]
Power Factorization: 22%	109/500 [00:22<01:11, 5.44it/s]
Power Factorization: 22%	110/500 [00:22<01:12, 5.37it/s]
Power Factorization: 22%	111/500 [00:22<01:14, 5.23it/s]
Power Factorization: 22%	112/500 [00:22<01:13, 5.26it/s]

Power Factorization: 23%	113/500 [00:23<01:13, 5.30it/s]
Power Factorization: 23%	114/500 [00:23<01:12, 5.30it/s]
Power Factorization: 23%	115/500 [00:23<01:13, 5.25it/s]
Power Factorization: 23%	116/500 [00:23<01:14, 5.18it/s]
Power Factorization: 23%	117/500 [00:23<01:12, 5.31it/s]
Power Factorization: 24%	118/500 [00:24<01:10, 5.44it/s]
Power Factorization: 24%	119/500 [00:24<01:11, 5.30it/s]
Power Factorization: 24%	120/500 [00:24<01:11, 5.30it/s]
Power Factorization: 24%	121/500 [00:24<01:12, 5.26it/s]
Power Factorization: 24%	122/500 [00:24<01:11, 5.26it/s]
Power Factorization: 25%	123/500 [00:24<01:10, 5.32it/s]
Power Factorization: 25%	124/500 [00:25<01:09, 5.41it/s]
Power Factorization: 25%	125/500 [00:25<01:08, 5.45it/s]
Power Factorization: 25%	126/500 [00:25<01:08, 5.46it/s]
Power Factorization: 25%	127/500 [00:25<01:10, 5.33it/s]
Power Factorization: 26%	128/500 [00:25<01:10, 5.30it/s]
Power Factorization: 26%	129/500 [00:26<01:11, 5.19it/s]
Power Factorization: 26%	130/500 [00:26<01:11, 5.20it/s]
Power Factorization: 26%	131/500 [00:26<01:11, 5.19it/s]
Power Factorization: 26%	132/500 [00:26<01:08, 5.40it/s]
Power Factorization: 27%	133/500 [00:26<01:05, 5.61it/s]
Power Factorization: 27%	134/500 [00:26<01:02, 5.85it/s]
Power Factorization: 27%	135/500 [00:27<01:00, 6.00it/s]
Power Factorization: 27%	136/500 [00:27<01:00, 6.03it/s]

Power Factorization: 27%	137/500 [00:27<00:59, 6.10it/s]
Power Factorization: 28%	138/500 [00:27<00:59, 6.09it/s]
Power Factorization: 28%	139/500 [00:27<00:59, 6.08it/s]
Power Factorization: 28%	140/500 [00:27<00:59, 6.01it/s]
Power Factorization: 28%	141/500 [00:28<01:02, 5.76it/s]
Power Factorization: 28%	142/500 [00:28<01:02, 5.71it/s]
Power Factorization: 29%	143/500 [00:28<01:03, 5.65it/s]
Power Factorization: 29%	144/500 [00:28<01:03, 5.60it/s]
Power Factorization: 29%	145/500 [00:28<01:03, 5.56it/s]
Power Factorization: 29%	146/500 [00:29<01:05, 5.44it/s]
Power Factorization: 29%	147/500 [00:29<01:05, 5.41it/s]
Power Factorization: 30%	148/500 [00:29<01:02, 5.59it/s]
Power Factorization: 30%	149/500 [00:29<01:00, 5.79it/s]
Power Factorization: 30%	150/500 [00:29<00:59, 5.92it/s]
Power Factorization: 30%	151/500 [00:29<00:57, 6.10it/s]
Power Factorization: 30%	152/500 [00:30<00:55, 6.21it/s]
Power Factorization: 31%	153/500 [00:30<00:55, 6.24it/s]
Power Factorization: 31%	154/500 [00:30<00:54, 6.35it/s]
Power Factorization: 31%	155/500 [00:30<00:53, 6.44it/s]
Power Factorization: 31%	156/500 [00:30<00:52, 6.50it/s]
Power Factorization: 31%	157/500 [00:30<00:53, 6.36it/s]
Power Factorization: 32%	158/500 [00:30<00:54, 6.30it/s]
Power Factorization: 32%	159/500 [00:31<00:54, 6.24it/s]
Power Factorization: 32%	160/500 [00:31<00:54, 6.26it/s]

Power Factorization: 32%	161/500 [00:31<00:53, 6.34it/s]
Power Factorization: 32%	162/500 [00:31<00:52, 6.39it/s]
Power Factorization: 33%	163/500 [00:31<00:52, 6.43it/s]
Power Factorization: 33%	164/500 [00:31<00:51, 6.54it/s]
Power Factorization: 33%	165/500 [00:32<00:50, 6.62it/s]
Power Factorization: 33%	166/500 [00:32<00:50, 6.65it/s]
Power Factorization: 33%	167/500 [00:32<00:51, 6.52it/s]
Power Factorization: 34%	168/500 [00:32<00:58, 5.70it/s]
Power Factorization: 34%	169/500 [00:32<00:58, 5.71it/s]
Power Factorization: 34%	170/500 [00:32<00:56, 5.84it/s]
Power Factorization: 34%	171/500 [00:33<00:55, 5.96it/s]
Power Factorization: 34%	172/500 [00:33<00:53, 6.10it/s]
Power Factorization: 35%	173/500 [00:33<00:52, 6.26it/s]
Power Factorization: 35%	174/500 [00:33<00:51, 6.35it/s]
Power Factorization: 35%	175/500 [00:33<00:50, 6.47it/s]
Power Factorization: 35%	176/500 [00:33<00:49, 6.52it/s]
Power Factorization: 35%	177/500 [00:33<00:49, 6.54it/s]
Power Factorization: 36%	178/500 [00:34<00:48, 6.58it/s]
Power Factorization: 36%	179/500 [00:34<00:48, 6.60it/s]
Power Factorization: 36%	180/500 [00:34<00:48, 6.62it/s]
Power Factorization: 36%	181/500 [00:34<00:48, 6.63it/s]
Power Factorization: 36%	182/500 [00:34<00:47, 6.67it/s]
Power Factorization: 37%	183/500 [00:34<00:47, 6.68it/s]
Power Factorization: 37%	184/500 [00:35<00:47, 6.67it/s]

Power Factorization: 37%	185/500 [00:35<00:47, 6.65it/s]
Power Factorization: 37%	186/500 [00:35<00:47, 6.64it/s]
Power Factorization: 37%	187/500 [00:35<00:47, 6.64it/s]
Power Factorization: 38%	188/500 [00:35<00:47, 6.60it/s]
Power Factorization: 38%	189/500 [00:35<00:47, 6.55it/s]
Power Factorization: 38%	190/500 [00:35<00:47, 6.55it/s]
Power Factorization: 38%	191/500 [00:36<00:47, 6.51it/s]
Power Factorization: 38%	192/500 [00:36<00:47, 6.53it/s]
Power Factorization: 39%	193/500 [00:36<00:46, 6.59it/s]
Power Factorization: 39%	194/500 [00:36<00:46, 6.64it/s]
Power Factorization: 39%	195/500 [00:36<00:46, 6.62it/s]
Power Factorization: 39%	196/500 [00:36<00:45, 6.66it/s]
Power Factorization: 39%	197/500 [00:37<00:45, 6.64it/s]
Power Factorization: 40%	198/500 [00:37<00:49, 6.06it/s]
Power Factorization: 40%	199/500 [00:37<00:48, 6.18it/s]
Power Factorization: 40%	200/500 [00:37<00:48, 6.24it/s]
Power Factorization: 40%	201/500 [00:37<00:47, 6.29it/s]
Power Factorization: 40%	202/500 [00:37<00:47, 6.24it/s]
Power Factorization: 41%	203/500 [00:37<00:47, 6.21it/s]
Power Factorization: 41%	204/500 [00:38<00:48, 6.11it/s]
Power Factorization: 41%	205/500 [00:38<00:47, 6.20it/s]
Power Factorization: 41%	206/500 [00:38<00:46, 6.30it/s]
Power Factorization: 41%	207/500 [00:38<00:47, 6.20it/s]
Power Factorization: 42%	208/500 [00:38<00:45, 6.35it/s]

Power Factorization: 42%	209/500 [00:38<00:44, 6.48it/s]
Power Factorization: 42%	210/500 [00:39<00:44, 6.54it/s]
Power Factorization: 42%	211/500 [00:39<00:44, 6.54it/s]
Power Factorization: 42%	212/500 [00:39<00:43, 6.59it/s]
Power Factorization: 43%	213/500 [00:39<00:43, 6.60it/s]
Power Factorization: 43%	214/500 [00:39<00:43, 6.62it/s]
Power Factorization: 43%	215/500 [00:39<00:43, 6.61it/s]
Power Factorization: 43%	216/500 [00:39<00:42, 6.64it/s]
Power Factorization: 43%	217/500 [00:40<00:49, 5.78it/s]
Power Factorization: 44%	218/500 [00:40<00:46, 6.10it/s]
Power Factorization: 44%	219/500 [00:40<00:44, 6.27it/s]
Power Factorization: 44%	220/500 [00:40<00:43, 6.38it/s]
Power Factorization: 44%	221/500 [00:40<00:43, 6.46it/s]
Power Factorization: 44%	222/500 [00:40<00:42, 6.54it/s]
Power Factorization: 45%	223/500 [00:41<00:42, 6.56it/s]
Power Factorization: 45%	224/500 [00:41<00:41, 6.59it/s]
Power Factorization: 45%	225/500 [00:41<00:41, 6.63it/s]
Power Factorization: 45%	226/500 [00:41<00:41, 6.64it/s]
Power Factorization: 45%	227/500 [00:41<00:41, 6.58it/s]
Power Factorization: 46%	228/500 [00:41<00:41, 6.48it/s]
Power Factorization: 46%	229/500 [00:42<00:42, 6.45it/s]
Power Factorization: 46%	230/500 [00:42<00:41, 6.46it/s]
Power Factorization: 46%	231/500 [00:42<00:41, 6.47it/s]
Power Factorization: 46%	232/500 [00:42<00:41, 6.51it/s]

Power Factorization: 47%	233/500 [00:42<00:40, 6.54it/s]
Power Factorization: 47%	234/500 [00:42<00:40, 6.62it/s]
Power Factorization: 47%	235/500 [00:42<00:39, 6.69it/s]
Power Factorization: 47%	236/500 [00:43<00:39, 6.69it/s]
Power Factorization: 47%	237/500 [00:43<00:39, 6.67it/s]
Power Factorization: 48%	238/500 [00:43<00:40, 6.51it/s]
Power Factorization: 48%	239/500 [00:43<00:40, 6.52it/s]
Power Factorization: 48%	240/500 [00:43<00:39, 6.50it/s]
Power Factorization: 48%	241/500 [00:43<00:39, 6.50it/s]
Power Factorization: 48%	242/500 [00:44<00:39, 6.50it/s]
Power Factorization: 49%	243/500 [00:44<00:39, 6.52it/s]
Power Factorization: 49%	244/500 [00:44<00:39, 6.49it/s]
Power Factorization: 49%	245/500 [00:44<00:39, 6.52it/s]
Power Factorization: 49%	246/500 [00:44<00:38, 6.57it/s]
Power Factorization: 49%	247/500 [00:44<00:38, 6.60it/s]
Power Factorization: 50%	248/500 [00:44<00:38, 6.58it/s]
Power Factorization: 50%	249/500 [00:45<00:38, 6.48it/s]
Power Factorization: 50%	250/500 [00:45<00:39, 6.34it/s]
Power Factorization: 50%	251/500 [00:45<00:40, 6.15it/s]
Power Factorization: 50%	252/500 [00:45<00:40, 6.17it/s]
Power Factorization: 51%	253/500 [00:45<00:39, 6.22it/s]
Power Factorization: 51%	254/500 [00:45<00:39, 6.21it/s]
Power Factorization: 51%	255/500 [00:46<00:45, 5.42it/s]
Power Factorization: 51%	256/500 [00:46<00:46, 5.28it/s]

Power Factorization: 51%	257/500 [00:46<00:45, 5.34it/s]
Power Factorization: 52%	258/500 [00:46<00:45, 5.37it/s]
Power Factorization: 52%	259/500 [00:46<00:45, 5.33it/s]
Power Factorization: 52%	260/500 [00:47<00:44, 5.34it/s]
Power Factorization: 52%	261/500 [00:47<00:45, 5.29it/s]
Power Factorization: 52%	262/500 [00:47<00:46, 5.15it/s]
Power Factorization: 53%	263/500 [00:47<00:50, 4.72it/s]
Power Factorization: 53%	264/500 [00:47<00:50, 4.70it/s]
Power Factorization: 53%	265/500 [00:48<00:49, 4.75it/s]
Power Factorization: 53%	266/500 [00:48<00:48, 4.82it/s]
Power Factorization: 53%	267/500 [00:48<00:45, 5.10it/s]
Power Factorization: 54%	268/500 [00:48<00:43, 5.34it/s]
Power Factorization: 54%	269/500 [00:48<00:41, 5.52it/s]
Power Factorization: 54%	270/500 [00:49<00:40, 5.65it/s]
Power Factorization: 54%	271/500 [00:49<00:39, 5.80it/s]
Power Factorization: 54%	272/500 [00:49<00:38, 5.89it/s]
Power Factorization: 55%	273/500 [00:49<00:39, 5.80it/s]
Power Factorization: 55%	274/500 [00:49<00:39, 5.79it/s]
Power Factorization: 55%	275/500 [00:49<00:38, 5.85it/s]
Power Factorization: 55%	276/500 [00:50<00:37, 5.93it/s]
Power Factorization: 55%	277/500 [00:50<00:37, 5.91it/s]
Power Factorization: 56%	278/500 [00:50<00:37, 5.87it/s]
Power Factorization: 56%	279/500 [00:50<00:37, 5.90it/s]
Power Factorization: 56%	280/500 [00:50<00:37, 5.86it/s]

Power Factorization: 56%	281/500 [00:50<00:37, 5.90it/s]
Power Factorization: 56%	282/500 [00:51<00:36, 6.00it/s]
Power Factorization: 57%	283/500 [00:51<00:35, 6.04it/s]
Power Factorization: 57%	284/500 [00:51<00:35, 6.17it/s]
Power Factorization: 57%	285/500 [00:51<00:34, 6.25it/s]
Power Factorization: 57%	286/500 [00:51<00:33, 6.34it/s]
Power Factorization: 57%	287/500 [00:51<00:33, 6.38it/s]
Power Factorization: 58%	288/500 [00:51<00:33, 6.33it/s]
Power Factorization: 58%	289/500 [00:52<00:33, 6.28it/s]
Power Factorization: 58%	290/500 [00:52<00:33, 6.32it/s]
Power Factorization: 58%	291/500 [00:52<00:32, 6.36it/s]
Power Factorization: 58%	292/500 [00:52<00:32, 6.44it/s]
Power Factorization: 59%	293/500 [00:52<00:31, 6.51it/s]
Power Factorization: 59%	294/500 [00:52<00:31, 6.55it/s]
Power Factorization: 59%	295/500 [00:53<00:31, 6.55it/s]
Power Factorization: 59%	296/500 [00:53<00:30, 6.61it/s]
Power Factorization: 59%	297/500 [00:53<00:30, 6.64it/s]
Power Factorization: 60%	298/500 [00:53<00:30, 6.59it/s]
Power Factorization: 60%	299/500 [00:53<00:30, 6.57it/s]
Power Factorization: 60%	300/500 [00:53<00:30, 6.56it/s]
Power Factorization: 60%	301/500 [00:54<00:32, 6.14it/s]
Power Factorization: 60%	302/500 [00:54<00:31, 6.21it/s]
Power Factorization: 61%	303/500 [00:54<00:31, 6.29it/s]
Power Factorization: 61%	304/500 [00:54<00:30, 6.42it/s]

Power Factorization: 61%	305/500 [00:54<00:30, 6.48it/s]
Power Factorization: 61%	306/500 [00:54<00:29, 6.54it/s]
Power Factorization: 61%	307/500 [00:54<00:29, 6.58it/s]
Power Factorization: 62%	308/500 [00:55<00:29, 6.60it/s]
Power Factorization: 62%	309/500 [00:55<00:28, 6.59it/s]
Power Factorization: 62%	310/500 [00:55<00:28, 6.60it/s]
Power Factorization: 62%	311/500 [00:55<00:28, 6.62it/s]
Power Factorization: 62%	312/500 [00:55<00:28, 6.63it/s]
Power Factorization: 63%	313/500 [00:55<00:28, 6.62it/s]
Power Factorization: 63%	314/500 [00:55<00:28, 6.50it/s]
Power Factorization: 63%	315/500 [00:56<00:33, 5.59it/s]
Power Factorization: 63%	316/500 [00:56<00:34, 5.33it/s]
Power Factorization: 63%	317/500 [00:56<00:34, 5.37it/s]
Power Factorization: 64%	318/500 [00:56<00:32, 5.57it/s]
Power Factorization: 64%	319/500 [00:56<00:31, 5.79it/s]
Power Factorization: 64%	320/500 [00:57<00:30, 5.97it/s]
Power Factorization: 64%	321/500 [00:57<00:29, 6.11it/s]
Power Factorization: 64%	322/500 [00:57<00:28, 6.29it/s]
Power Factorization: 65%	323/500 [00:57<00:27, 6.35it/s]
Power Factorization: 65%	324/500 [00:57<00:27, 6.43it/s]
Power Factorization: 65%	325/500 [00:57<00:26, 6.48it/s]
Power Factorization: 65%	326/500 [00:58<00:26, 6.53it/s]
Power Factorization: 65%	327/500 [00:58<00:26, 6.58it/s]
Power Factorization: 66%	328/500 [00:58<00:26, 6.44it/s]

Power Factorization: 66%	329/500 [00:58<00:26,	6.53it/s]
Power Factorization: 66%	330/500 [00:58<00:26,	6.54it/s]
Power Factorization: 66%	331/500 [00:58<00:25,	6.58it/s]
Power Factorization: 66%	332/500 [00:58<00:25,	6.63it/s]
Power Factorization: 67%	333/500 [00:59<00:25,	6.64it/s]
Power Factorization: 67%	334/500 [00:59<00:24,	6.68it/s]
Power Factorization: 67%	335/500 [00:59<00:24,	6.73it/s]
Power Factorization: 67%	336/500 [00:59<00:24,	6.68it/s]
Power Factorization: 67%	337/500 [00:59<00:24,	6.62it/s]
Power Factorization: 68%	338/500 [00:59<00:24,	6.63it/s]
Power Factorization: 68%	339/500 [00:59<00:24,	6.59it/s]
Power Factorization: 68%	340/500 [01:00<00:24,	6.43it/s]
Power Factorization: 68%	341/500 [01:00<00:24,	6.37it/s]
Power Factorization: 68%	342/500 [01:00<00:24,	6.39it/s]
Power Factorization: 69%	343/500 [01:00<00:24,	6.44it/s]
Power Factorization: 69%	344/500 [01:00<00:24,	6.49it/s]
Power Factorization: 69%	345/500 [01:00<00:23,	6.56it/s]
Power Factorization: 69%	346/500 [01:01<00:23,	6.56it/s]
Power Factorization: 69%	347/500 [01:01<00:23,	6.52it/s]
Power Factorization: 70%	348/500 [01:01<00:23,	6.48it/s]
Power Factorization: 70%	349/500 [01:01<00:23,	6.36it/s]
Power Factorization: 70%	350/500 [01:01<00:23,	6.25it/s]
Power Factorization: 70%	351/500 [01:01<00:23,	6.32it/s]
Power Factorization: 70%	352/500 [01:01<00:23,	6.42it/s]

Power Factorization: 71%	353/500 [01:02<00:23, 6.27it/s]
Power Factorization: 71%	354/500 [01:02<00:22, 6.36it/s]
Power Factorization: 71%	355/500 [01:02<00:22, 6.39it/s]
Power Factorization: 71%	356/500 [01:02<00:22, 6.29it/s]
Power Factorization: 71%	357/500 [01:02<00:22, 6.26it/s]
Power Factorization: 72%	358/500 [01:02<00:22, 6.20it/s]
Power Factorization: 72%	359/500 [01:03<00:22, 6.26it/s]
Power Factorization: 72%	360/500 [01:03<00:22, 6.34it/s]
Power Factorization: 72%	361/500 [01:03<00:21, 6.42it/s]
Power Factorization: 72%	362/500 [01:03<00:21, 6.48it/s]
Power Factorization: 73%	363/500 [01:03<00:21, 6.50it/s]
Power Factorization: 73%	364/500 [01:03<00:21, 6.36it/s]
Power Factorization: 73%	365/500 [01:04<00:21, 6.28it/s]
Power Factorization: 73%	366/500 [01:04<00:21, 6.13it/s]
Power Factorization: 73%	367/500 [01:04<00:22, 5.99it/s]
Power Factorization: 74%	368/500 [01:04<00:22, 5.89it/s]
Power Factorization: 74%	369/500 [01:04<00:22, 5.82it/s]
Power Factorization: 74%	370/500 [01:04<00:22, 5.70it/s]
Power Factorization: 74%	371/500 [01:05<00:22, 5.69it/s]
Power Factorization: 74%	372/500 [01:05<00:22, 5.65it/s]
Power Factorization: 75%	373/500 [01:05<00:22, 5.64it/s]
Power Factorization: 75%	374/500 [01:05<00:22, 5.56it/s]
Power Factorization: 75%	375/500 [01:05<00:23, 5.43it/s]
Power Factorization: 75%	376/500 [01:06<00:23, 5.38it/s]

Power Factorization: 75%	377/500 [01:06<00:23, 5.27it/s]
Power Factorization: 76%	378/500 [01:06<00:23, 5.24it/s]
Power Factorization: 76%	379/500 [01:06<00:23, 5.23it/s]
Power Factorization: 76%	380/500 [01:06<00:23, 5.06it/s]
Power Factorization: 76%	381/500 [01:07<00:27, 4.37it/s]
Power Factorization: 76%	382/500 [01:07<00:26, 4.49it/s]
Power Factorization: 77%	383/500 [01:07<00:26, 4.48it/s]
Power Factorization: 77%	384/500 [01:07<00:24, 4.64it/s]
Power Factorization: 77%	385/500 [01:07<00:24, 4.77it/s]
Power Factorization: 77%	386/500 [01:08<00:23, 4.76it/s]
Power Factorization: 77%	387/500 [01:08<00:24, 4.71it/s]
Power Factorization: 78%	388/500 [01:08<00:24, 4.61it/s]
Power Factorization: 78%	389/500 [01:08<00:23, 4.80it/s]
Power Factorization: 78%	390/500 [01:09<00:22, 4.88it/s]
Power Factorization: 78%	391/500 [01:09<00:21, 5.04it/s]
Power Factorization: 78%	392/500 [01:09<00:22, 4.90it/s]
Power Factorization: 79%	393/500 [01:09<00:21, 5.07it/s]
Power Factorization: 79%	394/500 [01:09<00:19, 5.31it/s]
Power Factorization: 79%	395/500 [01:09<00:18, 5.54it/s]
Power Factorization: 79%	396/500 [01:10<00:18, 5.69it/s]
Power Factorization: 79%	397/500 [01:10<00:17, 5.80it/s]
Power Factorization: 80%	398/500 [01:10<00:17, 5.92it/s]
Power Factorization: 80%	399/500 [01:10<00:16, 6.09it/s]
Power Factorization: 80%	400/500 [01:10<00:16, 6.21it/s]

Power Factorization: 80%	401/500 [01:10<00:15,	6.34it/s]
Power Factorization: 80%	402/500 [01:11<00:15,	6.47it/s]
Power Factorization: 81%	403/500 [01:11<00:14,	6.52it/s]
Power Factorization: 81%	404/500 [01:11<00:14,	6.58it/s]
Power Factorization: 81%	405/500 [01:11<00:14,	6.62it/s]
Power Factorization: 81%	406/500 [01:11<00:14,	6.65it/s]
Power Factorization: 81%	407/500 [01:11<00:13,	6.67it/s]
Power Factorization: 82%	408/500 [01:11<00:13,	6.68it/s]
Power Factorization: 82%	409/500 [01:12<00:13,	6.70it/s]
Power Factorization: 82%	410/500 [01:12<00:13,	6.76it/s]
Power Factorization: 82%	411/500 [01:12<00:13,	6.78it/s]
Power Factorization: 82%	412/500 [01:12<00:12,	6.79it/s]
Power Factorization: 83%	413/500 [01:12<00:12,	6.77it/s]
Power Factorization: 83%	414/500 [01:12<00:12,	6.72it/s]
Power Factorization: 83%	415/500 [01:12<00:12,	6.73it/s]
Power Factorization: 83%	416/500 [01:13<00:12,	6.69it/s]
Power Factorization: 83%	417/500 [01:13<00:12,	6.68it/s]
Power Factorization: 84%	418/500 [01:13<00:12,	6.73it/s]
Power Factorization: 84%	419/500 [01:13<00:12,	6.65it/s]
Power Factorization: 84%	420/500 [01:13<00:12,	6.65it/s]
Power Factorization: 84%	421/500 [01:13<00:11,	6.66it/s]
Power Factorization: 84%	422/500 [01:14<00:11,	6.59it/s]
Power Factorization: 85%	423/500 [01:14<00:15,	4.92it/s]
Power Factorization: 85%	424/500 [01:14<00:22,	3.40it/s]

Power Factorization: 85%	425/500 [01:15<00:23,	3.23it/s]
Power Factorization: 85%	426/500 [01:15<00:25,	2.92it/s]
Power Factorization: 85%	427/500 [01:15<00:22,	3.20it/s]
Power Factorization: 86%	428/500 [01:16<00:20,	3.54it/s]
Power Factorization: 86%	429/500 [01:16<00:18,	3.83it/s]
Power Factorization: 86%	430/500 [01:16<00:17,	4.09it/s]
Power Factorization: 86%	431/500 [01:16<00:16,	4.30it/s]
Power Factorization: 86%	432/500 [01:16<00:15,	4.44it/s]
Power Factorization: 87%	433/500 [01:17<00:14,	4.63it/s]
Power Factorization: 87%	434/500 [01:17<00:13,	4.79it/s]
Power Factorization: 87%	435/500 [01:17<00:13,	4.78it/s]
Power Factorization: 87%	436/500 [01:17<00:14,	4.41it/s]
Power Factorization: 87%	437/500 [01:17<00:14,	4.39it/s]
Power Factorization: 88%	438/500 [01:18<00:13,	4.43it/s]
Power Factorization: 88%	439/500 [01:18<00:13,	4.52it/s]
Power Factorization: 88%	440/500 [01:18<00:13,	4.60it/s]
Power Factorization: 88%	441/500 [01:18<00:12,	4.80it/s]
Power Factorization: 88%	442/500 [01:19<00:11,	4.89it/s]
Power Factorization: 89%	443/500 [01:19<00:11,	4.93it/s]
Power Factorization: 89%	444/500 [01:19<00:11,	4.91it/s]
Power Factorization: 89%	445/500 [01:19<00:11,	4.99it/s]
Power Factorization: 89%	446/500 [01:19<00:10,	5.07it/s]
Power Factorization: 89%	447/500 [01:19<00:10,	5.05it/s]
Power Factorization: 90%	448/500 [01:20<00:10,	5.20it/s]

Power Factorization: 90%	449/500 [01:20<00:09,	5.37it/s]
Power Factorization: 90%	450/500 [01:20<00:08,	5.60it/s]
Power Factorization: 90%	451/500 [01:20<00:08,	5.64it/s]
Power Factorization: 90%	452/500 [01:20<00:08,	5.76it/s]
Power Factorization: 91%	453/500 [01:21<00:08,	5.81it/s]
Power Factorization: 91%	454/500 [01:21<00:07,	5.88it/s]
Power Factorization: 91%	455/500 [01:21<00:07,	5.95it/s]
Power Factorization: 91%	456/500 [01:21<00:07,	6.05it/s]
Power Factorization: 91%	457/500 [01:21<00:07,	5.96it/s]
Power Factorization: 92%	458/500 [01:21<00:07,	5.90it/s]
Power Factorization: 92%	459/500 [01:22<00:07,	5.81it/s]
Power Factorization: 92%	460/500 [01:22<00:07,	5.27it/s]
Power Factorization: 92%	461/500 [01:22<00:07,	5.04it/s]
Power Factorization: 92%	462/500 [01:22<00:07,	4.97it/s]
Power Factorization: 93%	463/500 [01:22<00:07,	4.81it/s]
Power Factorization: 93%	464/500 [01:23<00:07,	4.87it/s]
Power Factorization: 93%	465/500 [01:23<00:06,	5.05it/s]
Power Factorization: 93%	466/500 [01:23<00:06,	5.29it/s]
Power Factorization: 93%	467/500 [01:23<00:06,	5.50it/s]
Power Factorization: 94%	468/500 [01:23<00:05,	5.76it/s]
Power Factorization: 94%	469/500 [01:23<00:05,	5.94it/s]
Power Factorization: 94%	470/500 [01:24<00:04,	6.13it/s]
Power Factorization: 94%	471/500 [01:24<00:04,	6.23it/s]
Power Factorization: 94%	472/500 [01:24<00:04,	6.28it/s]

Power Factorization: 95%	473/500 [01:24<00:04, 6.14it/s]
Power Factorization: 95%	474/500 [01:24<00:04, 6.11it/s]
Power Factorization: 95%	475/500 [01:24<00:04, 6.21it/s]
Power Factorization: 95%	476/500 [01:25<00:03, 6.26it/s]
Power Factorization: 95%	477/500 [01:25<00:03, 6.27it/s]
Power Factorization: 96%	478/500 [01:25<00:03, 6.31it/s]
Power Factorization: 96%	479/500 [01:25<00:03, 6.33it/s]
Power Factorization: 96%	480/500 [01:25<00:03, 6.39it/s]
Power Factorization: 96%	481/500 [01:25<00:02, 6.46it/s]
Power Factorization: 96%	482/500 [01:25<00:02, 6.45it/s]
Power Factorization: 97%	483/500 [01:26<00:02, 6.51it/s]
Power Factorization: 97%	484/500 [01:26<00:02, 6.56it/s]
Power Factorization: 97%	485/500 [01:26<00:02, 6.62it/s]
Power Factorization: 97%	486/500 [01:26<00:02, 6.67it/s]
Power Factorization: 97%	487/500 [01:26<00:02, 6.47it/s]
Power Factorization: 98%	488/500 [01:26<00:01, 6.42it/s]
Power Factorization: 98%	489/500 [01:27<00:01, 6.42it/s]
Power Factorization: 98%	490/500 [01:27<00:01, 6.46it/s]
Power Factorization: 98%	491/500 [01:27<00:01, 6.52it/s]
Power Factorization: 98%	492/500 [01:27<00:01, 6.59it/s]
Power Factorization: 99%	493/500 [01:27<00:01, 6.61it/s]
Power Factorization: 99%	494/500 [01:27<00:00, 6.56it/s]
Power Factorization: 99%	495/500 [01:27<00:00, 6.49it/s]
Power Factorization: 99%	496/500 [01:28<00:00, 6.14it/s]

Power Factorization: 99%| | 497/500 [01:28<00:00, 5.91it/s]

Power Factorization: 100%| | 498/500 [01:28<00:00, 5.96it/s]

Power Factorization: 100%| | 499/500 [01:28<00:00, 6.02it/s]

Power Factorization: 100%| | 500/500 [01:28<00:00, 5.63it/s]

Cross Validation: 100%| | 5/5 [08:11<00:00, 98.33s/it]

Grid Search: 6%| | 1/16 [08:11<2:02:55, 491.68s/it]

Average RMS for k=5, lambda=0.1: 4.1040, Execution time: 98.2939s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<01:24, 5.91it/s]

Power Factorization: 0%| | 2/500 [00:00<01:23, 5.99it/s]

Power Factorization: 1%| | 3/500 [00:00<01:20, 6.15it/s]

Power Factorization: 1%| | 4/500 [00:00<01:19, 6.27it/s]

Power Factorization: 1%| | 5/500 [00:00<01:17, 6.40it/s]

Power Factorization: 1%| | 6/500 [00:00<01:15, 6.54it/s]

Power Factorization: 1%| | 7/500 [00:01<01:14, 6.61it/s]

Power Factorization: 2%| | 8/500 [00:01<01:13, 6.70it/s]

Power Factorization: 2%| | 9/500 [00:01<01:13, 6.64it/s]

Power Factorization: 2%| | 10/500 [00:01<01:13, 6.65it/s]

Power Factorization: 2%| | 11/500 [00:01<01:12, 6.70it/s]

Power Factorization: 2%| | 12/500 [00:01<01:12, 6.72it/s]

Power Factorization: 3%| | 13/500 [00:01<01:13, 6.66it/s]

Power Factorization: 3%| | 14/500 [00:02<01:12, 6.73it/s]

Power Factorization: 3%| | 15/500 [00:02<01:12, 6.70it/s]

Power Factorization:	3%	16/500	[00:02<01:11,	6.75it/s]
Power Factorization:	3%	17/500	[00:02<01:11,	6.71it/s]
Power Factorization:	4%	18/500	[00:02<01:12,	6.67it/s]
Power Factorization:	4%	19/500	[00:02<01:12,	6.62it/s]
Power Factorization:	4%	20/500	[00:03<01:25,	5.63it/s]
Power Factorization:	4%	21/500	[00:03<01:22,	5.79it/s]
Power Factorization:	4%	22/500	[00:03<01:21,	5.86it/s]
Power Factorization:	5%	23/500	[00:03<01:21,	5.84it/s]
Power Factorization:	5%	24/500	[00:03<01:19,	5.99it/s]
Power Factorization:	5%	25/500	[00:03<01:18,	6.08it/s]
Power Factorization:	5%	26/500	[00:04<01:16,	6.18it/s]
Power Factorization:	5%	27/500	[00:04<01:15,	6.27it/s]
Power Factorization:	6%	28/500	[00:04<01:19,	5.93it/s]
Power Factorization:	6%	29/500	[00:04<01:19,	5.96it/s]
Power Factorization:	6%	30/500	[00:04<01:19,	5.93it/s]
Power Factorization:	6%	31/500	[00:04<01:18,	5.97it/s]
Power Factorization:	6%	32/500	[00:05<01:16,	6.11it/s]
Power Factorization:	7%	33/500	[00:05<01:15,	6.20it/s]
Power Factorization:	7%	34/500	[00:05<01:14,	6.27it/s]
Power Factorization:	7%	35/500	[00:05<01:12,	6.41it/s]
Power Factorization:	7%	36/500	[00:05<01:11,	6.51it/s]
Power Factorization:	7%	37/500	[00:05<01:10,	6.61it/s]
Power Factorization:	8%	38/500	[00:05<01:09,	6.69it/s]
Power Factorization:	8%	39/500	[00:06<01:08,	6.74it/s]

Power Factorization:	8%	40/500 [00:06<01:08, 6.73it/s]
Power Factorization:	8%	41/500 [00:06<01:07, 6.78it/s]
Power Factorization:	8%	42/500 [00:06<01:07, 6.82it/s]
Power Factorization:	9%	43/500 [00:06<01:08, 6.70it/s]
Power Factorization:	9%	44/500 [00:06<01:07, 6.71it/s]
Power Factorization:	9%	45/500 [00:07<01:08, 6.69it/s]
Power Factorization:	9%	46/500 [00:07<01:07, 6.70it/s]
Power Factorization:	9%	47/500 [00:07<01:07, 6.68it/s]
Power Factorization:	10%	48/500 [00:07<01:07, 6.70it/s]
Power Factorization:	10%	49/500 [00:07<01:07, 6.69it/s]
Power Factorization:	10%	50/500 [00:07<01:07, 6.70it/s]
Power Factorization:	10%	51/500 [00:07<01:07, 6.65it/s]
Power Factorization:	10%	52/500 [00:08<01:07, 6.67it/s]
Power Factorization:	11%	53/500 [00:08<01:07, 6.66it/s]
Power Factorization:	11%	54/500 [00:08<01:07, 6.64it/s]
Power Factorization:	11%	55/500 [00:08<01:07, 6.63it/s]
Power Factorization:	11%	56/500 [00:08<01:06, 6.68it/s]
Power Factorization:	11%	57/500 [00:08<01:06, 6.69it/s]
Power Factorization:	12%	58/500 [00:08<01:07, 6.55it/s]
Power Factorization:	12%	59/500 [00:09<01:08, 6.43it/s]
Power Factorization:	12%	60/500 [00:09<01:08, 6.46it/s]
Power Factorization:	12%	61/500 [00:09<01:07, 6.48it/s]
Power Factorization:	12%	62/500 [00:09<01:07, 6.48it/s]
Power Factorization:	13%	63/500 [00:09<01:07, 6.48it/s]

Power Factorization: 13%	64/500 [00:09<01:06, 6.55it/s]
Power Factorization: 13%	65/500 [00:10<01:05, 6.59it/s]
Power Factorization: 13%	66/500 [00:10<01:05, 6.60it/s]
Power Factorization: 13%	67/500 [00:10<01:05, 6.65it/s]
Power Factorization: 14%	68/500 [00:10<01:04, 6.71it/s]
Power Factorization: 14%	69/500 [00:10<01:04, 6.71it/s]
Power Factorization: 14%	70/500 [00:10<01:04, 6.71it/s]
Power Factorization: 14%	71/500 [00:10<01:03, 6.74it/s]
Power Factorization: 14%	72/500 [00:11<01:03, 6.79it/s]
Power Factorization: 15%	73/500 [00:11<01:03, 6.74it/s]
Power Factorization: 15%	74/500 [00:11<01:03, 6.69it/s]
Power Factorization: 15%	75/500 [00:11<01:04, 6.55it/s]
Power Factorization: 15%	76/500 [00:11<01:05, 6.45it/s]
Power Factorization: 15%	77/500 [00:11<01:06, 6.38it/s]
Power Factorization: 16%	78/500 [00:12<01:05, 6.40it/s]
Power Factorization: 16%	79/500 [00:12<01:04, 6.48it/s]
Power Factorization: 16%	80/500 [00:12<01:04, 6.51it/s]
Power Factorization: 16%	81/500 [00:12<01:04, 6.52it/s]
Power Factorization: 16%	82/500 [00:12<01:03, 6.57it/s]
Power Factorization: 17%	83/500 [00:12<01:03, 6.58it/s]
Power Factorization: 17%	84/500 [00:12<01:02, 6.66it/s]
Power Factorization: 17%	85/500 [00:13<01:02, 6.69it/s]
Power Factorization: 17%	86/500 [00:13<01:01, 6.69it/s]
Power Factorization: 17%	87/500 [00:13<01:01, 6.68it/s]

Power Factorization: 18%	88/500 [00:13<01:02, 6.63it/s]
Power Factorization: 18%	89/500 [00:13<01:01, 6.64it/s]
Power Factorization: 18%	90/500 [00:13<01:01, 6.66it/s]
Power Factorization: 18%	91/500 [00:13<01:01, 6.69it/s]
Power Factorization: 18%	92/500 [00:14<01:01, 6.65it/s]
Power Factorization: 19%	93/500 [00:14<01:02, 6.50it/s]
Power Factorization: 19%	94/500 [00:14<01:03, 6.43it/s]
Power Factorization: 19%	95/500 [00:14<01:03, 6.41it/s]
Power Factorization: 19%	96/500 [00:14<01:02, 6.51it/s]
Power Factorization: 19%	97/500 [00:14<01:01, 6.58it/s]
Power Factorization: 20%	98/500 [00:15<01:00, 6.66it/s]
Power Factorization: 20%	99/500 [00:15<00:59, 6.71it/s]
Power Factorization: 20%	100/500 [00:15<00:59, 6.73it/s]
Power Factorization: 20%	101/500 [00:15<00:59, 6.75it/s]
Power Factorization: 20%	102/500 [00:15<00:58, 6.75it/s]
Power Factorization: 21%	103/500 [00:15<00:59, 6.70it/s]
Power Factorization: 21%	104/500 [00:15<00:59, 6.67it/s]
Power Factorization: 21%	105/500 [00:16<00:59, 6.67it/s]
Power Factorization: 21%	106/500 [00:16<00:59, 6.66it/s]
Power Factorization: 21%	107/500 [00:16<00:58, 6.67it/s]
Power Factorization: 22%	108/500 [00:16<00:58, 6.67it/s]
Power Factorization: 22%	109/500 [00:16<00:58, 6.74it/s]
Power Factorization: 22%	110/500 [00:16<00:58, 6.66it/s]
Power Factorization: 22%	111/500 [00:17<00:58, 6.65it/s]

Power Factorization: 22%	112/500 [00:17<00:57, 6.70it/s]
Power Factorization: 23%	113/500 [00:17<00:57, 6.72it/s]
Power Factorization: 23%	114/500 [00:17<00:57, 6.71it/s]
Power Factorization: 23%	115/500 [00:17<00:57, 6.74it/s]
Power Factorization: 23%	116/500 [00:17<01:01, 6.22it/s]
Power Factorization: 23%	117/500 [00:18<01:10, 5.40it/s]
Power Factorization: 24%	118/500 [00:18<01:14, 5.15it/s]
Power Factorization: 24%	119/500 [00:18<01:17, 4.88it/s]
Power Factorization: 24%	120/500 [00:18<01:24, 4.50it/s]
Power Factorization: 24%	121/500 [00:18<01:21, 4.67it/s]
Power Factorization: 24%	122/500 [00:19<01:16, 4.96it/s]
Power Factorization: 25%	123/500 [00:19<01:13, 5.16it/s]
Power Factorization: 25%	124/500 [00:19<01:09, 5.38it/s]
Power Factorization: 25%	125/500 [00:19<01:07, 5.57it/s]
Power Factorization: 25%	126/500 [00:19<01:04, 5.76it/s]
Power Factorization: 25%	127/500 [00:19<01:03, 5.86it/s]
Power Factorization: 26%	128/500 [00:20<01:05, 5.71it/s]
Power Factorization: 26%	129/500 [00:20<01:04, 5.76it/s]
Power Factorization: 26%	130/500 [00:20<01:03, 5.83it/s]
Power Factorization: 26%	131/500 [00:20<01:02, 5.87it/s]
Power Factorization: 26%	132/500 [00:20<01:02, 5.86it/s]
Power Factorization: 27%	133/500 [00:20<01:02, 5.90it/s]
Power Factorization: 27%	134/500 [00:21<01:01, 5.93it/s]
Power Factorization: 27%	135/500 [00:21<01:02, 5.82it/s]

Power Factorization: 27%	136/500 [00:21<01:03, 5.76it/s]
Power Factorization: 27%	137/500 [00:21<01:01, 5.87it/s]
Power Factorization: 28%	138/500 [00:21<01:00, 6.01it/s]
Power Factorization: 28%	139/500 [00:21<00:58, 6.16it/s]
Power Factorization: 28%	140/500 [00:22<00:57, 6.27it/s]
Power Factorization: 28%	141/500 [00:22<00:55, 6.43it/s]
Power Factorization: 28%	142/500 [00:22<00:54, 6.52it/s]
Power Factorization: 29%	143/500 [00:22<00:53, 6.62it/s]
Power Factorization: 29%	144/500 [00:22<00:53, 6.71it/s]
Power Factorization: 29%	145/500 [00:22<00:52, 6.71it/s]
Power Factorization: 29%	146/500 [00:22<00:52, 6.76it/s]
Power Factorization: 29%	147/500 [00:23<00:51, 6.82it/s]
Power Factorization: 30%	148/500 [00:23<00:52, 6.75it/s]
Power Factorization: 30%	149/500 [00:23<00:52, 6.70it/s]
Power Factorization: 30%	150/500 [00:23<00:52, 6.71it/s]
Power Factorization: 30%	151/500 [00:23<00:51, 6.72it/s]
Power Factorization: 30%	152/500 [00:23<00:51, 6.80it/s]
Power Factorization: 31%	153/500 [00:24<00:51, 6.79it/s]
Power Factorization: 31%	154/500 [00:24<00:51, 6.69it/s]
Power Factorization: 31%	155/500 [00:24<00:52, 6.60it/s]
Power Factorization: 31%	156/500 [00:24<00:52, 6.59it/s]
Power Factorization: 31%	157/500 [00:24<00:52, 6.59it/s]
Power Factorization: 32%	158/500 [00:24<00:51, 6.70it/s]
Power Factorization: 32%	159/500 [00:24<00:50, 6.76it/s]

Power Factorization: 32%	160/500 [00:25<00:50, 6.80it/s]
Power Factorization: 32%	161/500 [00:25<00:49, 6.84it/s]
Power Factorization: 32%	162/500 [00:25<00:49, 6.83it/s]
Power Factorization: 33%	163/500 [00:25<00:49, 6.81it/s]
Power Factorization: 33%	164/500 [00:25<00:49, 6.75it/s]
Power Factorization: 33%	165/500 [00:25<00:49, 6.78it/s]
Power Factorization: 33%	166/500 [00:25<00:49, 6.81it/s]
Power Factorization: 33%	167/500 [00:26<00:48, 6.84it/s]
Power Factorization: 34%	168/500 [00:26<00:48, 6.87it/s]
Power Factorization: 34%	169/500 [00:26<00:48, 6.80it/s]
Power Factorization: 34%	170/500 [00:26<00:48, 6.76it/s]
Power Factorization: 34%	171/500 [00:26<00:48, 6.79it/s]
Power Factorization: 34%	172/500 [00:26<00:49, 6.67it/s]
Power Factorization: 35%	173/500 [00:26<00:48, 6.69it/s]
Power Factorization: 35%	174/500 [00:27<00:48, 6.75it/s]
Power Factorization: 35%	175/500 [00:27<00:48, 6.75it/s]
Power Factorization: 35%	176/500 [00:27<00:47, 6.77it/s]
Power Factorization: 35%	177/500 [00:27<00:47, 6.78it/s]
Power Factorization: 36%	178/500 [00:27<00:47, 6.76it/s]
Power Factorization: 36%	179/500 [00:27<00:47, 6.77it/s]
Power Factorization: 36%	180/500 [00:28<00:47, 6.69it/s]
Power Factorization: 36%	181/500 [00:28<00:48, 6.60it/s]
Power Factorization: 36%	182/500 [00:28<00:48, 6.57it/s]
Power Factorization: 37%	183/500 [00:28<00:47, 6.65it/s]

Power Factorization: 37%	184/500 [00:28<00:47, 6.68it/s]
Power Factorization: 37%	185/500 [00:28<00:47, 6.69it/s]
Power Factorization: 37%	186/500 [00:28<00:46, 6.76it/s]
Power Factorization: 37%	187/500 [00:29<00:46, 6.80it/s]
Power Factorization: 38%	188/500 [00:29<00:45, 6.86it/s]
Power Factorization: 38%	189/500 [00:29<00:45, 6.87it/s]
Power Factorization: 38%	190/500 [00:29<00:45, 6.82it/s]
Power Factorization: 38%	191/500 [00:29<00:45, 6.79it/s]
Power Factorization: 38%	192/500 [00:29<00:45, 6.83it/s]
Power Factorization: 39%	193/500 [00:29<00:44, 6.83it/s]
Power Factorization: 39%	194/500 [00:30<00:44, 6.90it/s]
Power Factorization: 39%	195/500 [00:30<00:44, 6.91it/s]
Power Factorization: 39%	196/500 [00:30<00:44, 6.84it/s]
Power Factorization: 39%	197/500 [00:30<00:44, 6.79it/s]
Power Factorization: 40%	198/500 [00:30<00:44, 6.81it/s]
Power Factorization: 40%	199/500 [00:30<00:44, 6.77it/s]
Power Factorization: 40%	200/500 [00:30<00:44, 6.74it/s]
Power Factorization: 40%	201/500 [00:31<00:43, 6.82it/s]
Power Factorization: 40%	202/500 [00:31<00:43, 6.79it/s]
Power Factorization: 41%	203/500 [00:31<00:43, 6.81it/s]
Power Factorization: 41%	204/500 [00:31<00:43, 6.80it/s]
Power Factorization: 41%	205/500 [00:31<00:43, 6.79it/s]
Power Factorization: 41%	206/500 [00:31<00:43, 6.74it/s]
Power Factorization: 41%	207/500 [00:32<00:43, 6.80it/s]

Power Factorization: 42%	208/500 [00:32<00:42, 6.81it/s]
Power Factorization: 42%	209/500 [00:32<00:42, 6.78it/s]
Power Factorization: 42%	210/500 [00:32<00:43, 6.69it/s]
Power Factorization: 42%	211/500 [00:32<00:43, 6.60it/s]
Power Factorization: 42%	212/500 [00:32<00:43, 6.62it/s]
Power Factorization: 43%	213/500 [00:32<00:43, 6.54it/s]
Power Factorization: 43%	214/500 [00:33<00:43, 6.60it/s]
Power Factorization: 43%	215/500 [00:33<00:42, 6.68it/s]
Power Factorization: 43%	216/500 [00:33<00:42, 6.68it/s]
Power Factorization: 43%	217/500 [00:33<00:41, 6.75it/s]
Power Factorization: 44%	218/500 [00:33<00:41, 6.76it/s]
Power Factorization: 44%	219/500 [00:33<00:41, 6.78it/s]
Power Factorization: 44%	220/500 [00:33<00:40, 6.89it/s]
Power Factorization: 44%	221/500 [00:34<00:40, 6.94it/s]
Power Factorization: 44%	222/500 [00:34<00:40, 6.93it/s]
Power Factorization: 45%	223/500 [00:34<00:40, 6.83it/s]
Power Factorization: 45%	224/500 [00:34<00:40, 6.77it/s]
Power Factorization: 45%	225/500 [00:34<00:40, 6.84it/s]
Power Factorization: 45%	226/500 [00:34<00:39, 6.86it/s]
Power Factorization: 45%	227/500 [00:34<00:40, 6.77it/s]
Power Factorization: 46%	228/500 [00:35<00:40, 6.80it/s]
Power Factorization: 46%	229/500 [00:35<00:39, 6.82it/s]
Power Factorization: 46%	230/500 [00:35<00:39, 6.86it/s]
Power Factorization: 46%	231/500 [00:35<00:39, 6.88it/s]

Power Factorization: 46%	232/500 [00:35<00:38, 6.92it/s]
Power Factorization: 47%	233/500 [00:35<00:38, 6.86it/s]
Power Factorization: 47%	234/500 [00:35<00:39, 6.82it/s]
Power Factorization: 47%	235/500 [00:36<00:38, 6.82it/s]
Power Factorization: 47%	236/500 [00:36<00:38, 6.88it/s]
Power Factorization: 47%	237/500 [00:36<00:38, 6.79it/s]
Power Factorization: 48%	238/500 [00:36<00:38, 6.81it/s]
Power Factorization: 48%	239/500 [00:36<00:38, 6.80it/s]
Power Factorization: 48%	240/500 [00:36<00:38, 6.81it/s]
Power Factorization: 48%	241/500 [00:37<00:38, 6.76it/s]
Power Factorization: 48%	242/500 [00:37<00:38, 6.78it/s]
Power Factorization: 49%	243/500 [00:37<00:37, 6.87it/s]
Power Factorization: 49%	244/500 [00:37<00:37, 6.81it/s]
Power Factorization: 49%	245/500 [00:37<00:37, 6.71it/s]
Power Factorization: 49%	246/500 [00:37<00:37, 6.69it/s]
Power Factorization: 49%	247/500 [00:37<00:37, 6.68it/s]
Power Factorization: 50%	248/500 [00:38<00:37, 6.76it/s]
Power Factorization: 50%	249/500 [00:38<00:36, 6.79it/s]
Power Factorization: 50%	250/500 [00:38<00:36, 6.82it/s]
Power Factorization: 50%	251/500 [00:38<00:36, 6.77it/s]
Power Factorization: 50%	252/500 [00:38<00:36, 6.83it/s]
Power Factorization: 51%	253/500 [00:38<00:36, 6.86it/s]
Power Factorization: 51%	254/500 [00:38<00:35, 6.87it/s]
Power Factorization: 51%	255/500 [00:39<00:35, 6.85it/s]

Power Factorization:	51%	256/500 [00:39<00:35,	6.92it/s]
Power Factorization:	51%	257/500 [00:39<00:35,	6.94it/s]
Power Factorization:	52%	258/500 [00:39<00:35,	6.89it/s]
Power Factorization:	52%	259/500 [00:39<00:34,	6.89it/s]
Power Factorization:	52%	260/500 [00:39<00:35,	6.85it/s]
Power Factorization:	52%	261/500 [00:39<00:35,	6.66it/s]
Power Factorization:	52%	262/500 [00:40<00:36,	6.56it/s]
Power Factorization:	53%	263/500 [00:40<00:37,	6.37it/s]
Power Factorization:	53%	264/500 [00:40<00:37,	6.25it/s]
Power Factorization:	53%	265/500 [00:40<00:38,	6.15it/s]
Power Factorization:	53%	266/500 [00:40<00:38,	6.03it/s]
Power Factorization:	53%	267/500 [00:40<00:39,	5.94it/s]
Power Factorization:	54%	268/500 [00:41<00:39,	5.89it/s]
Power Factorization:	54%	269/500 [00:41<00:39,	5.84it/s]
Power Factorization:	54%	270/500 [00:41<00:39,	5.80it/s]
Power Factorization:	54%	271/500 [00:41<00:39,	5.81it/s]
Power Factorization:	54%	272/500 [00:41<00:39,	5.77it/s]
Power Factorization:	55%	273/500 [00:42<00:39,	5.75it/s]
Power Factorization:	55%	274/500 [00:42<00:40,	5.55it/s]
Power Factorization:	55%	275/500 [00:42<00:41,	5.48it/s]
Power Factorization:	55%	276/500 [00:42<00:41,	5.37it/s]
Power Factorization:	55%	277/500 [00:42<00:42,	5.27it/s]
Power Factorization:	56%	278/500 [00:42<00:41,	5.41it/s]
Power Factorization:	56%	279/500 [00:43<00:40,	5.52it/s]

Power Factorization: 56%	280/500 [00:43<00:39, 5.63it/s]
Power Factorization: 56%	281/500 [00:43<00:38, 5.71it/s]
Power Factorization: 56%	282/500 [00:43<00:37, 5.81it/s]
Power Factorization: 57%	283/500 [00:43<00:36, 5.88it/s]
Power Factorization: 57%	284/500 [00:43<00:36, 5.86it/s]
Power Factorization: 57%	285/500 [00:44<00:37, 5.78it/s]
Power Factorization: 57%	286/500 [00:44<00:36, 5.94it/s]
Power Factorization: 57%	287/500 [00:44<00:35, 6.08it/s]
Power Factorization: 58%	288/500 [00:44<00:33, 6.25it/s]
Power Factorization: 58%	289/500 [00:44<00:32, 6.42it/s]
Power Factorization: 58%	290/500 [00:44<00:32, 6.50it/s]
Power Factorization: 58%	291/500 [00:45<00:31, 6.57it/s]
Power Factorization: 58%	292/500 [00:45<00:31, 6.60it/s]
Power Factorization: 59%	293/500 [00:45<00:30, 6.70it/s]
Power Factorization: 59%	294/500 [00:45<00:30, 6.71it/s]
Power Factorization: 59%	295/500 [00:45<00:30, 6.65it/s]
Power Factorization: 59%	296/500 [00:45<00:30, 6.65it/s]
Power Factorization: 59%	297/500 [00:45<00:30, 6.63it/s]
Power Factorization: 60%	298/500 [00:46<00:30, 6.64it/s]
Power Factorization: 60%	299/500 [00:46<00:30, 6.66it/s]
Power Factorization: 60%	300/500 [00:46<00:30, 6.56it/s]
Power Factorization: 60%	301/500 [00:46<00:30, 6.62it/s]
Power Factorization: 60%	302/500 [00:46<00:29, 6.61it/s]
Power Factorization: 61%	303/500 [00:46<00:29, 6.66it/s]

Power Factorization: 61%	304/500 [00:47<00:29, 6.76it/s]
Power Factorization: 61%	305/500 [00:47<00:28, 6.74it/s]
Power Factorization: 61%	306/500 [00:47<00:29, 6.67it/s]
Power Factorization: 61%	307/500 [00:47<00:30, 6.42it/s]
Power Factorization: 62%	308/500 [00:47<00:30, 6.28it/s]
Power Factorization: 62%	309/500 [00:47<00:31, 5.97it/s]
Power Factorization: 62%	310/500 [00:48<00:32, 5.91it/s]
Power Factorization: 62%	311/500 [00:48<00:31, 5.99it/s]
Power Factorization: 62%	312/500 [00:48<00:30, 6.09it/s]
Power Factorization: 63%	313/500 [00:48<00:35, 5.29it/s]
Power Factorization: 63%	314/500 [00:48<00:34, 5.43it/s]
Power Factorization: 63%	315/500 [00:48<00:32, 5.62it/s]
Power Factorization: 63%	316/500 [00:49<00:31, 5.87it/s]
Power Factorization: 63%	317/500 [00:49<00:31, 5.77it/s]
Power Factorization: 64%	318/500 [00:49<00:30, 5.88it/s]
Power Factorization: 64%	319/500 [00:49<00:30, 5.93it/s]
Power Factorization: 64%	320/500 [00:49<00:29, 6.05it/s]
Power Factorization: 64%	321/500 [00:49<00:28, 6.25it/s]
Power Factorization: 64%	322/500 [00:50<00:27, 6.37it/s]
Power Factorization: 65%	323/500 [00:50<00:27, 6.38it/s]
Power Factorization: 65%	324/500 [00:50<00:26, 6.53it/s]
Power Factorization: 65%	325/500 [00:50<00:26, 6.60it/s]
Power Factorization: 65%	326/500 [00:50<00:25, 6.71it/s]
Power Factorization: 65%	327/500 [00:50<00:25, 6.73it/s]

Power Factorization: 66%	328/500 [00:50<00:25, 6.77it/s]
Power Factorization: 66%	329/500 [00:51<00:24, 6.84it/s]
Power Factorization: 66%	330/500 [00:51<00:25, 6.80it/s]
Power Factorization: 66%	331/500 [00:51<00:25, 6.75it/s]
Power Factorization: 66%	332/500 [00:51<00:24, 6.82it/s]
Power Factorization: 67%	333/500 [00:51<00:24, 6.82it/s]
Power Factorization: 67%	334/500 [00:51<00:24, 6.71it/s]
Power Factorization: 67%	335/500 [00:51<00:24, 6.76it/s]
Power Factorization: 67%	336/500 [00:52<00:23, 6.88it/s]
Power Factorization: 67%	337/500 [00:52<00:23, 6.85it/s]
Power Factorization: 68%	338/500 [00:52<00:24, 6.74it/s]
Power Factorization: 68%	339/500 [00:52<00:24, 6.69it/s]
Power Factorization: 68%	340/500 [00:52<00:23, 6.71it/s]
Power Factorization: 68%	341/500 [00:52<00:23, 6.74it/s]
Power Factorization: 68%	342/500 [00:52<00:23, 6.77it/s]
Power Factorization: 69%	343/500 [00:53<00:23, 6.79it/s]
Power Factorization: 69%	344/500 [00:53<00:23, 6.77it/s]
Power Factorization: 69%	345/500 [00:53<00:22, 6.74it/s]
Power Factorization: 69%	346/500 [00:53<00:23, 6.66it/s]
Power Factorization: 69%	347/500 [00:53<00:22, 6.66it/s]
Power Factorization: 70%	348/500 [00:53<00:22, 6.65it/s]
Power Factorization: 70%	349/500 [00:54<00:22, 6.64it/s]
Power Factorization: 70%	350/500 [00:54<00:22, 6.68it/s]
Power Factorization: 70%	351/500 [00:54<00:22, 6.75it/s]

Power Factorization: 70%	352/500 [00:54<00:21, 6.75it/s]
Power Factorization: 71%	353/500 [00:54<00:21, 6.72it/s]
Power Factorization: 71%	354/500 [00:54<00:21, 6.77it/s]
Power Factorization: 71%	355/500 [00:54<00:21, 6.81it/s]
Power Factorization: 71%	356/500 [00:55<00:21, 6.85it/s]
Power Factorization: 71%	357/500 [00:55<00:20, 6.87it/s]
Power Factorization: 72%	358/500 [00:55<00:20, 6.83it/s]
Power Factorization: 72%	359/500 [00:55<00:20, 6.76it/s]
Power Factorization: 72%	360/500 [00:55<00:20, 6.73it/s]
Power Factorization: 72%	361/500 [00:55<00:20, 6.75it/s]
Power Factorization: 72%	362/500 [00:55<00:20, 6.77it/s]
Power Factorization: 73%	363/500 [00:56<00:20, 6.80it/s]
Power Factorization: 73%	364/500 [00:56<00:19, 6.80it/s]
Power Factorization: 73%	365/500 [00:56<00:19, 6.79it/s]
Power Factorization: 73%	366/500 [00:56<00:19, 6.85it/s]
Power Factorization: 73%	367/500 [00:56<00:19, 6.82it/s]
Power Factorization: 74%	368/500 [00:56<00:19, 6.84it/s]
Power Factorization: 74%	369/500 [00:56<00:19, 6.83it/s]
Power Factorization: 74%	370/500 [00:57<00:19, 6.81it/s]
Power Factorization: 74%	371/500 [00:57<00:18, 6.81it/s]
Power Factorization: 74%	372/500 [00:57<00:18, 6.75it/s]
Power Factorization: 75%	373/500 [00:57<00:18, 6.72it/s]
Power Factorization: 75%	374/500 [00:57<00:18, 6.71it/s]
Power Factorization: 75%	375/500 [00:57<00:18, 6.73it/s]

Power Factorization: 75%	376/500 [00:58<00:18, 6.73it/s]
Power Factorization: 75%	377/500 [00:58<00:18, 6.81it/s]
Power Factorization: 76%	378/500 [00:58<00:19, 6.29it/s]
Power Factorization: 76%	379/500 [00:58<00:18, 6.41it/s]
Power Factorization: 76%	380/500 [00:58<00:18, 6.41it/s]
Power Factorization: 76%	381/500 [00:58<00:18, 6.32it/s]
Power Factorization: 76%	382/500 [00:58<00:19, 6.09it/s]
Power Factorization: 77%	383/500 [00:59<00:22, 5.20it/s]
Power Factorization: 77%	384/500 [00:59<00:22, 5.23it/s]
Power Factorization: 77%	385/500 [00:59<00:22, 5.09it/s]
Power Factorization: 77%	386/500 [00:59<00:22, 5.12it/s]
Power Factorization: 77%	387/500 [01:00<00:21, 5.21it/s]
Power Factorization: 78%	388/500 [01:00<00:21, 5.30it/s]
Power Factorization: 78%	389/500 [01:00<00:20, 5.30it/s]
Power Factorization: 78%	390/500 [01:00<00:20, 5.34it/s]
Power Factorization: 78%	391/500 [01:00<00:20, 5.42it/s]
Power Factorization: 78%	392/500 [01:00<00:22, 4.90it/s]
Power Factorization: 79%	393/500 [01:01<00:21, 4.97it/s]
Power Factorization: 79%	394/500 [01:01<00:20, 5.13it/s]
Power Factorization: 79%	395/500 [01:01<00:19, 5.30it/s]
Power Factorization: 79%	396/500 [01:01<00:19, 5.42it/s]
Power Factorization: 79%	397/500 [01:01<00:18, 5.58it/s]
Power Factorization: 80%	398/500 [01:02<00:18, 5.61it/s]
Power Factorization: 80%	399/500 [01:02<00:17, 5.67it/s]

Power Factorization: 80%	400/500 [01:02<00:17, 5.64it/s]
Power Factorization: 80%	401/500 [01:02<00:17, 5.76it/s]
Power Factorization: 80%	402/500 [01:02<00:16, 5.98it/s]
Power Factorization: 81%	403/500 [01:02<00:15, 6.17it/s]
Power Factorization: 81%	404/500 [01:03<00:15, 6.35it/s]
Power Factorization: 81%	405/500 [01:03<00:14, 6.43it/s]
Power Factorization: 81%	406/500 [01:03<00:14, 6.54it/s]
Power Factorization: 81%	407/500 [01:03<00:13, 6.66it/s]
Power Factorization: 82%	408/500 [01:03<00:13, 6.69it/s]
Power Factorization: 82%	409/500 [01:03<00:13, 6.76it/s]
Power Factorization: 82%	410/500 [01:03<00:13, 6.81it/s]
Power Factorization: 82%	411/500 [01:04<00:13, 6.73it/s]
Power Factorization: 82%	412/500 [01:04<00:13, 6.69it/s]
Power Factorization: 83%	413/500 [01:04<00:13, 6.69it/s]
Power Factorization: 83%	414/500 [01:04<00:12, 6.71it/s]
Power Factorization: 83%	415/500 [01:04<00:12, 6.73it/s]
Power Factorization: 83%	416/500 [01:04<00:12, 6.80it/s]
Power Factorization: 83%	417/500 [01:04<00:12, 6.77it/s]
Power Factorization: 84%	418/500 [01:05<00:12, 6.76it/s]
Power Factorization: 84%	419/500 [01:05<00:11, 6.76it/s]
Power Factorization: 84%	420/500 [01:05<00:11, 6.75it/s]
Power Factorization: 84%	421/500 [01:05<00:11, 6.81it/s]
Power Factorization: 84%	422/500 [01:05<00:11, 6.68it/s]
Power Factorization: 85%	423/500 [01:05<00:11, 6.68it/s]

Power Factorization: 85%	424/500 [01:05<00:11,	6.82it/s]
Power Factorization: 85%	425/500 [01:06<00:11,	6.80it/s]
Power Factorization: 85%	426/500 [01:06<00:10,	6.75it/s]
Power Factorization: 85%	427/500 [01:06<00:10,	6.75it/s]
Power Factorization: 86%	428/500 [01:06<00:10,	6.79it/s]
Power Factorization: 86%	429/500 [01:06<00:10,	6.77it/s]
Power Factorization: 86%	430/500 [01:06<00:10,	6.81it/s]
Power Factorization: 86%	431/500 [01:07<00:10,	6.81it/s]
Power Factorization: 86%	432/500 [01:07<00:10,	6.69it/s]
Power Factorization: 87%	433/500 [01:07<00:09,	6.72it/s]
Power Factorization: 87%	434/500 [01:07<00:09,	6.78it/s]
Power Factorization: 87%	435/500 [01:07<00:09,	6.77it/s]
Power Factorization: 87%	436/500 [01:07<00:09,	6.77it/s]
Power Factorization: 87%	437/500 [01:07<00:09,	6.78it/s]
Power Factorization: 88%	438/500 [01:08<00:09,	6.77it/s]
Power Factorization: 88%	439/500 [01:08<00:09,	6.75it/s]
Power Factorization: 88%	440/500 [01:08<00:08,	6.80it/s]
Power Factorization: 88%	441/500 [01:08<00:08,	6.81it/s]
Power Factorization: 88%	442/500 [01:08<00:08,	6.72it/s]
Power Factorization: 89%	443/500 [01:08<00:08,	6.64it/s]
Power Factorization: 89%	444/500 [01:08<00:08,	6.65it/s]
Power Factorization: 89%	445/500 [01:09<00:08,	6.57it/s]
Power Factorization: 89%	446/500 [01:09<00:08,	6.67it/s]
Power Factorization: 89%	447/500 [01:09<00:07,	6.74it/s]

Power Factorization: 90%	448/500 [01:09<00:07, 6.80it/s]
Power Factorization: 90%	449/500 [01:09<00:07, 6.81it/s]
Power Factorization: 90%	450/500 [01:09<00:07, 6.85it/s]
Power Factorization: 90%	451/500 [01:09<00:07, 6.84it/s]
Power Factorization: 90%	452/500 [01:10<00:06, 6.86it/s]
Power Factorization: 91%	453/500 [01:10<00:06, 6.84it/s]
Power Factorization: 91%	454/500 [01:10<00:06, 6.80it/s]
Power Factorization: 91%	455/500 [01:10<00:06, 6.58it/s]
Power Factorization: 91%	456/500 [01:10<00:06, 6.39it/s]
Power Factorization: 91%	457/500 [01:10<00:06, 6.31it/s]
Power Factorization: 92%	458/500 [01:11<00:06, 6.25it/s]
Power Factorization: 92%	459/500 [01:11<00:06, 6.22it/s]
Power Factorization: 92%	460/500 [01:11<00:06, 6.21it/s]
Power Factorization: 92%	461/500 [01:11<00:06, 6.16it/s]
Power Factorization: 92%	462/500 [01:11<00:06, 6.12it/s]
Power Factorization: 93%	463/500 [01:11<00:06, 5.62it/s]
Power Factorization: 93%	464/500 [01:12<00:06, 5.59it/s]
Power Factorization: 93%	465/500 [01:12<00:06, 5.74it/s]
Power Factorization: 93%	466/500 [01:12<00:05, 5.84it/s]
Power Factorization: 93%	467/500 [01:12<00:05, 6.00it/s]
Power Factorization: 94%	468/500 [01:12<00:05, 6.20it/s]
Power Factorization: 94%	469/500 [01:12<00:04, 6.39it/s]
Power Factorization: 94%	470/500 [01:13<00:04, 6.54it/s]
Power Factorization: 94%	471/500 [01:13<00:04, 6.58it/s]

Power Factorization: 94%	472/500 [01:13<00:04, 6.67it/s]
Power Factorization: 95%	473/500 [01:13<00:04, 6.73it/s]
Power Factorization: 95%	474/500 [01:13<00:03, 6.70it/s]
Power Factorization: 95%	475/500 [01:13<00:03, 6.76it/s]
Power Factorization: 95%	476/500 [01:13<00:03, 6.84it/s]
Power Factorization: 95%	477/500 [01:14<00:03, 6.83it/s]
Power Factorization: 96%	478/500 [01:14<00:03, 6.80it/s]
Power Factorization: 96%	479/500 [01:14<00:03, 6.90it/s]
Power Factorization: 96%	480/500 [01:14<00:02, 6.92it/s]
Power Factorization: 96%	481/500 [01:14<00:02, 6.90it/s]
Power Factorization: 96%	482/500 [01:14<00:02, 6.84it/s]
Power Factorization: 97%	483/500 [01:14<00:02, 6.79it/s]
Power Factorization: 97%	484/500 [01:15<00:02, 6.84it/s]
Power Factorization: 97%	485/500 [01:15<00:02, 6.78it/s]
Power Factorization: 97%	486/500 [01:15<00:02, 6.81it/s]
Power Factorization: 97%	487/500 [01:15<00:01, 6.78it/s]
Power Factorization: 98%	488/500 [01:15<00:01, 6.84it/s]
Power Factorization: 98%	489/500 [01:15<00:01, 6.85it/s]
Power Factorization: 98%	490/500 [01:15<00:01, 6.89it/s]
Power Factorization: 98%	491/500 [01:16<00:01, 6.88it/s]
Power Factorization: 98%	492/500 [01:16<00:01, 6.86it/s]
Power Factorization: 99%	493/500 [01:16<00:01, 6.90it/s]
Power Factorization: 99%	494/500 [01:16<00:00, 6.90it/s]
Power Factorization: 99%	495/500 [01:16<00:00, 6.99it/s]

Power Factorization: 99%	496/500 [01:16<00:00, 6.92it/s]
Power Factorization: 99%	497/500 [01:16<00:00, 6.92it/s]
Power Factorization: 100%	498/500 [01:17<00:00, 6.97it/s]
Power Factorization: 100%	499/500 [01:17<00:00, 6.93it/s]
Power Factorization: 100%	500/500 [01:17<00:00, 6.46it/s]
Cross Validation: 20%	1/5 [01:17<05:09, 77.46s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:15, 6.65it/s]
Power Factorization: 0%	2/500 [00:00<01:14, 6.69it/s]
Power Factorization: 1%	3/500 [00:00<01:14, 6.69it/s]
Power Factorization: 1%	4/500 [00:00<01:13, 6.78it/s]
Power Factorization: 1%	5/500 [00:00<01:12, 6.82it/s]
Power Factorization: 1%	6/500 [00:00<01:13, 6.76it/s]
Power Factorization: 1%	7/500 [00:01<01:12, 6.76it/s]
Power Factorization: 2%	8/500 [00:01<01:12, 6.83it/s]
Power Factorization: 2%	9/500 [00:01<01:11, 6.86it/s]
Power Factorization: 2%	10/500 [00:01<01:10, 6.91it/s]
Power Factorization: 2%	11/500 [00:01<01:10, 6.90it/s]
Power Factorization: 2%	12/500 [00:01<01:10, 6.88it/s]
Power Factorization: 3%	13/500 [00:01<01:10, 6.89it/s]
Power Factorization: 3%	14/500 [00:02<01:11, 6.83it/s]
Power Factorization: 3%	15/500 [00:02<01:10, 6.87it/s]
Power Factorization: 3%	16/500 [00:02<01:10, 6.85it/s]
Power Factorization: 3%	17/500 [00:02<01:11, 6.77it/s]

Power Factorization:	4%	18/500	[00:02<01:10,	6.86it/s]
Power Factorization:	4%	19/500	[00:02<01:10,	6.87it/s]
Power Factorization:	4%	20/500	[00:02<01:10,	6.85it/s]
Power Factorization:	4%	21/500	[00:03<01:10,	6.81it/s]
Power Factorization:	4%	22/500	[00:03<01:09,	6.91it/s]
Power Factorization:	5%	23/500	[00:03<01:09,	6.84it/s]
Power Factorization:	5%	24/500	[00:03<01:08,	6.93it/s]
Power Factorization:	5%	25/500	[00:03<01:08,	6.91it/s]
Power Factorization:	5%	26/500	[00:03<01:09,	6.87it/s]
Power Factorization:	5%	27/500	[00:03<01:10,	6.75it/s]
Power Factorization:	6%	28/500	[00:04<01:10,	6.72it/s]
Power Factorization:	6%	29/500	[00:04<01:10,	6.70it/s]
Power Factorization:	6%	30/500	[00:04<01:10,	6.66it/s]
Power Factorization:	6%	31/500	[00:04<01:10,	6.66it/s]
Power Factorization:	6%	32/500	[00:04<01:09,	6.72it/s]
Power Factorization:	7%	33/500	[00:04<01:09,	6.76it/s]
Power Factorization:	7%	34/500	[00:04<01:09,	6.73it/s]
Power Factorization:	7%	35/500	[00:05<01:08,	6.80it/s]
Power Factorization:	7%	36/500	[00:05<01:08,	6.79it/s]
Power Factorization:	7%	37/500	[00:05<01:07,	6.85it/s]
Power Factorization:	8%	38/500	[00:05<01:07,	6.81it/s]
Power Factorization:	8%	39/500	[00:05<01:08,	6.73it/s]
Power Factorization:	8%	40/500	[00:05<01:08,	6.71it/s]
Power Factorization:	8%	41/500	[00:06<01:08,	6.74it/s]

Power Factorization:	8%	42/500 [00:06<01:08, 6.73it/s]
Power Factorization:	9%	43/500 [00:06<01:08, 6.71it/s]
Power Factorization:	9%	44/500 [00:06<01:07, 6.78it/s]
Power Factorization:	9%	45/500 [00:06<01:07, 6.77it/s]
Power Factorization:	9%	46/500 [00:06<01:06, 6.81it/s]
Power Factorization:	9%	47/500 [00:06<01:06, 6.83it/s]
Power Factorization:	10%	48/500 [00:07<01:05, 6.89it/s]
Power Factorization:	10%	49/500 [00:07<01:05, 6.86it/s]
Power Factorization:	10%	50/500 [00:07<01:05, 6.82it/s]
Power Factorization:	10%	51/500 [00:07<01:06, 6.78it/s]
Power Factorization:	10%	52/500 [00:07<01:06, 6.73it/s]
Power Factorization:	11%	53/500 [00:07<01:06, 6.77it/s]
Power Factorization:	11%	54/500 [00:07<01:05, 6.78it/s]
Power Factorization:	11%	55/500 [00:08<01:04, 6.86it/s]
Power Factorization:	11%	56/500 [00:08<01:03, 6.95it/s]
Power Factorization:	11%	57/500 [00:08<01:03, 6.98it/s]
Power Factorization:	12%	58/500 [00:08<01:03, 6.94it/s]
Power Factorization:	12%	59/500 [00:08<01:04, 6.86it/s]
Power Factorization:	12%	60/500 [00:08<01:04, 6.84it/s]
Power Factorization:	12%	61/500 [00:08<01:04, 6.78it/s]
Power Factorization:	12%	62/500 [00:09<01:04, 6.82it/s]
Power Factorization:	13%	63/500 [00:09<01:04, 6.79it/s]
Power Factorization:	13%	64/500 [00:09<01:04, 6.77it/s]
Power Factorization:	13%	65/500 [00:09<01:04, 6.75it/s]

Power Factorization: 13%	66/500 [00:09<01:04, 6.76it/s]
Power Factorization: 13%	67/500 [00:09<01:03, 6.79it/s]
Power Factorization: 14%	68/500 [00:09<01:03, 6.79it/s]
Power Factorization: 14%	69/500 [00:10<01:04, 6.73it/s]
Power Factorization: 14%	70/500 [00:10<01:10, 6.11it/s]
Power Factorization: 14%	71/500 [00:10<01:09, 6.18it/s]
Power Factorization: 14%	72/500 [00:10<01:10, 6.10it/s]
Power Factorization: 15%	73/500 [00:10<01:11, 5.96it/s]
Power Factorization: 15%	74/500 [00:11<01:14, 5.69it/s]
Power Factorization: 15%	75/500 [00:11<01:15, 5.64it/s]
Power Factorization: 15%	76/500 [00:11<01:15, 5.59it/s]
Power Factorization: 15%	77/500 [00:11<01:15, 5.58it/s]
Power Factorization: 16%	78/500 [00:11<01:15, 5.60it/s]
Power Factorization: 16%	79/500 [00:11<01:15, 5.60it/s]
Power Factorization: 16%	80/500 [00:12<01:14, 5.63it/s]
Power Factorization: 16%	81/500 [00:12<01:14, 5.64it/s]
Power Factorization: 16%	82/500 [00:12<01:15, 5.56it/s]
Power Factorization: 17%	83/500 [00:12<01:14, 5.58it/s]
Power Factorization: 17%	84/500 [00:12<01:15, 5.53it/s]
Power Factorization: 17%	85/500 [00:13<01:17, 5.38it/s]
Power Factorization: 17%	86/500 [00:13<01:17, 5.36it/s]
Power Factorization: 17%	87/500 [00:13<01:22, 5.02it/s]
Power Factorization: 18%	88/500 [00:13<01:23, 4.94it/s]
Power Factorization: 18%	89/500 [00:13<01:21, 5.05it/s]

Power Factorization: 18%	90/500 [00:14<01:18, 5.20it/s]
Power Factorization: 18%	91/500 [00:14<01:16, 5.35it/s]
Power Factorization: 18%	92/500 [00:14<01:15, 5.43it/s]
Power Factorization: 19%	93/500 [00:14<01:13, 5.56it/s]
Power Factorization: 19%	94/500 [00:14<01:12, 5.60it/s]
Power Factorization: 19%	95/500 [00:14<01:11, 5.63it/s]
Power Factorization: 19%	96/500 [00:15<01:10, 5.71it/s]
Power Factorization: 19%	97/500 [00:15<01:12, 5.55it/s]
Power Factorization: 20%	98/500 [00:15<01:13, 5.50it/s]
Power Factorization: 20%	99/500 [00:15<01:11, 5.64it/s]
Power Factorization: 20%	100/500 [00:15<01:08, 5.87it/s]
Power Factorization: 20%	101/500 [00:15<01:05, 6.05it/s]
Power Factorization: 20%	102/500 [00:16<01:04, 6.21it/s]
Power Factorization: 21%	103/500 [00:16<01:02, 6.38it/s]
Power Factorization: 21%	104/500 [00:16<01:00, 6.56it/s]
Power Factorization: 21%	105/500 [00:16<00:59, 6.59it/s]
Power Factorization: 21%	106/500 [00:16<00:59, 6.67it/s]
Power Factorization: 21%	107/500 [00:16<00:58, 6.72it/s]
Power Factorization: 22%	108/500 [00:16<00:58, 6.72it/s]
Power Factorization: 22%	109/500 [00:17<00:57, 6.76it/s]
Power Factorization: 22%	110/500 [00:17<00:58, 6.67it/s]
Power Factorization: 22%	111/500 [00:17<00:58, 6.62it/s]
Power Factorization: 22%	112/500 [00:17<00:58, 6.65it/s]
Power Factorization: 23%	113/500 [00:17<00:57, 6.70it/s]

Power Factorization: 23%	114/500 [00:17<00:57, 6.72it/s]
Power Factorization: 23%	115/500 [00:17<00:56, 6.80it/s]
Power Factorization: 23%	116/500 [00:18<00:56, 6.82it/s]
Power Factorization: 23%	117/500 [00:18<00:56, 6.80it/s]
Power Factorization: 24%	118/500 [00:18<00:55, 6.84it/s]
Power Factorization: 24%	119/500 [00:18<00:55, 6.84it/s]
Power Factorization: 24%	120/500 [00:18<00:55, 6.88it/s]
Power Factorization: 24%	121/500 [00:18<00:54, 6.92it/s]
Power Factorization: 24%	122/500 [00:19<00:54, 6.89it/s]
Power Factorization: 25%	123/500 [00:19<00:54, 6.87it/s]
Power Factorization: 25%	124/500 [00:19<00:54, 6.85it/s]
Power Factorization: 25%	125/500 [00:19<00:54, 6.82it/s]
Power Factorization: 25%	126/500 [00:19<00:55, 6.74it/s]
Power Factorization: 25%	127/500 [00:19<00:55, 6.66it/s]
Power Factorization: 26%	128/500 [00:19<00:56, 6.56it/s]
Power Factorization: 26%	129/500 [00:20<00:57, 6.47it/s]
Power Factorization: 26%	130/500 [00:20<00:58, 6.37it/s]
Power Factorization: 26%	131/500 [00:20<00:59, 6.17it/s]
Power Factorization: 26%	132/500 [00:20<00:59, 6.19it/s]
Power Factorization: 27%	133/500 [00:20<00:58, 6.28it/s]
Power Factorization: 27%	134/500 [00:20<00:57, 6.41it/s]
Power Factorization: 27%	135/500 [00:21<00:56, 6.51it/s]
Power Factorization: 27%	136/500 [00:21<00:54, 6.63it/s]
Power Factorization: 27%	137/500 [00:21<00:54, 6.65it/s]

Power Factorization: 28%	138/500 [00:21<00:53, 6.72it/s]
Power Factorization: 28%	139/500 [00:21<00:53, 6.74it/s]
Power Factorization: 28%	140/500 [00:21<00:53, 6.76it/s]
Power Factorization: 28%	141/500 [00:21<00:53, 6.71it/s]
Power Factorization: 28%	142/500 [00:22<00:53, 6.74it/s]
Power Factorization: 29%	143/500 [00:22<00:52, 6.75it/s]
Power Factorization: 29%	144/500 [00:22<00:52, 6.79it/s]
Power Factorization: 29%	145/500 [00:22<00:53, 6.64it/s]
Power Factorization: 29%	146/500 [00:22<00:54, 6.54it/s]
Power Factorization: 29%	147/500 [00:22<00:53, 6.55it/s]
Power Factorization: 30%	148/500 [00:22<00:53, 6.59it/s]
Power Factorization: 30%	149/500 [00:23<00:53, 6.57it/s]
Power Factorization: 30%	150/500 [00:23<00:53, 6.60it/s]
Power Factorization: 30%	151/500 [00:23<00:52, 6.63it/s]
Power Factorization: 30%	152/500 [00:23<00:52, 6.63it/s]
Power Factorization: 31%	153/500 [00:23<00:51, 6.71it/s]
Power Factorization: 31%	154/500 [00:23<00:50, 6.80it/s]
Power Factorization: 31%	155/500 [00:24<00:50, 6.81it/s]
Power Factorization: 31%	156/500 [00:24<00:50, 6.84it/s]
Power Factorization: 31%	157/500 [00:24<00:49, 6.86it/s]
Power Factorization: 32%	158/500 [00:24<00:50, 6.82it/s]
Power Factorization: 32%	159/500 [00:24<00:50, 6.81it/s]
Power Factorization: 32%	160/500 [00:24<00:49, 6.83it/s]
Power Factorization: 32%	161/500 [00:24<00:49, 6.83it/s]

Power Factorization: 32%	162/500 [00:25<00:49, 6.83it/s]
Power Factorization: 33%	163/500 [00:25<00:49, 6.81it/s]
Power Factorization: 33%	164/500 [00:25<00:49, 6.84it/s]
Power Factorization: 33%	165/500 [00:25<00:49, 6.83it/s]
Power Factorization: 33%	166/500 [00:25<00:49, 6.81it/s]
Power Factorization: 33%	167/500 [00:25<00:48, 6.81it/s]
Power Factorization: 34%	168/500 [00:25<00:48, 6.79it/s]
Power Factorization: 34%	169/500 [00:26<00:48, 6.80it/s]
Power Factorization: 34%	170/500 [00:26<00:48, 6.78it/s]
Power Factorization: 34%	171/500 [00:26<00:48, 6.76it/s]
Power Factorization: 34%	172/500 [00:26<00:48, 6.73it/s]
Power Factorization: 35%	173/500 [00:26<00:48, 6.73it/s]
Power Factorization: 35%	174/500 [00:26<00:48, 6.69it/s]
Power Factorization: 35%	175/500 [00:26<00:48, 6.63it/s]
Power Factorization: 35%	176/500 [00:27<00:49, 6.57it/s]
Power Factorization: 35%	177/500 [00:27<00:48, 6.61it/s]
Power Factorization: 36%	178/500 [00:27<00:48, 6.61it/s]
Power Factorization: 36%	179/500 [00:27<00:48, 6.67it/s]
Power Factorization: 36%	180/500 [00:27<00:47, 6.72it/s]
Power Factorization: 36%	181/500 [00:27<00:47, 6.71it/s]
Power Factorization: 36%	182/500 [00:28<00:47, 6.73it/s]
Power Factorization: 37%	183/500 [00:28<00:46, 6.77it/s]
Power Factorization: 37%	184/500 [00:28<00:46, 6.79it/s]
Power Factorization: 37%	185/500 [00:28<00:46, 6.79it/s]

Power Factorization: 37%	186/500 [00:28<00:46, 6.81it/s]
Power Factorization: 37%	187/500 [00:28<00:45, 6.81it/s]
Power Factorization: 38%	188/500 [00:28<00:45, 6.82it/s]
Power Factorization: 38%	189/500 [00:29<00:45, 6.88it/s]
Power Factorization: 38%	190/500 [00:29<00:45, 6.86it/s]
Power Factorization: 38%	191/500 [00:29<00:44, 6.92it/s]
Power Factorization: 38%	192/500 [00:29<00:45, 6.84it/s]
Power Factorization: 39%	193/500 [00:29<00:45, 6.81it/s]
Power Factorization: 39%	194/500 [00:29<00:44, 6.86it/s]
Power Factorization: 39%	195/500 [00:29<00:44, 6.80it/s]
Power Factorization: 39%	196/500 [00:30<00:44, 6.77it/s]
Power Factorization: 39%	197/500 [00:30<00:45, 6.71it/s]
Power Factorization: 40%	198/500 [00:30<00:44, 6.77it/s]
Power Factorization: 40%	199/500 [00:30<00:44, 6.76it/s]
Power Factorization: 40%	200/500 [00:30<00:44, 6.75it/s]
Power Factorization: 40%	201/500 [00:30<00:43, 6.83it/s]
Power Factorization: 40%	202/500 [00:30<00:43, 6.86it/s]
Power Factorization: 41%	203/500 [00:31<00:43, 6.77it/s]
Power Factorization: 41%	204/500 [00:31<00:43, 6.80it/s]
Power Factorization: 41%	205/500 [00:31<00:43, 6.75it/s]
Power Factorization: 41%	206/500 [00:31<00:44, 6.54it/s]
Power Factorization: 41%	207/500 [00:31<00:45, 6.46it/s]
Power Factorization: 42%	208/500 [00:31<00:45, 6.44it/s]
Power Factorization: 42%	209/500 [00:32<00:46, 6.32it/s]

Power Factorization: 42%	210/500 [00:32<00:48, 6.01it/s]
Power Factorization: 42%	211/500 [00:32<00:48, 5.95it/s]
Power Factorization: 42%	212/500 [00:32<00:47, 6.04it/s]
Power Factorization: 43%	213/500 [00:32<00:46, 6.18it/s]
Power Factorization: 43%	214/500 [00:32<00:45, 6.29it/s]
Power Factorization: 43%	215/500 [00:33<00:44, 6.40it/s]
Power Factorization: 43%	216/500 [00:33<00:44, 6.42it/s]
Power Factorization: 43%	217/500 [00:33<00:43, 6.47it/s]
Power Factorization: 44%	218/500 [00:33<00:43, 6.55it/s]
Power Factorization: 44%	219/500 [00:33<00:42, 6.60it/s]
Power Factorization: 44%	220/500 [00:33<00:42, 6.60it/s]
Power Factorization: 44%	221/500 [00:33<00:42, 6.61it/s]
Power Factorization: 44%	222/500 [00:34<00:42, 6.61it/s]
Power Factorization: 45%	223/500 [00:34<00:41, 6.63it/s]
Power Factorization: 45%	224/500 [00:34<00:41, 6.64it/s]
Power Factorization: 45%	225/500 [00:34<00:41, 6.68it/s]
Power Factorization: 45%	226/500 [00:34<00:40, 6.73it/s]
Power Factorization: 45%	227/500 [00:34<00:40, 6.80it/s]
Power Factorization: 46%	228/500 [00:34<00:40, 6.76it/s]
Power Factorization: 46%	229/500 [00:35<00:40, 6.77it/s]
Power Factorization: 46%	230/500 [00:35<00:39, 6.79it/s]
Power Factorization: 46%	231/500 [00:35<00:39, 6.73it/s]
Power Factorization: 46%	232/500 [00:35<00:39, 6.75it/s]
Power Factorization: 47%	233/500 [00:35<00:39, 6.73it/s]

Power Factorization: 47%	234/500 [00:35<00:39, 6.69it/s]
Power Factorization: 47%	235/500 [00:35<00:40, 6.61it/s]
Power Factorization: 47%	236/500 [00:36<00:39, 6.60it/s]
Power Factorization: 47%	237/500 [00:36<00:39, 6.64it/s]
Power Factorization: 48%	238/500 [00:36<00:39, 6.65it/s]
Power Factorization: 48%	239/500 [00:36<00:38, 6.71it/s]
Power Factorization: 48%	240/500 [00:36<00:38, 6.72it/s]
Power Factorization: 48%	241/500 [00:36<00:38, 6.77it/s]
Power Factorization: 48%	242/500 [00:37<00:38, 6.70it/s]
Power Factorization: 49%	243/500 [00:37<00:38, 6.75it/s]
Power Factorization: 49%	244/500 [00:37<00:37, 6.77it/s]
Power Factorization: 49%	245/500 [00:37<00:37, 6.73it/s]
Power Factorization: 49%	246/500 [00:37<00:44, 5.69it/s]
Power Factorization: 49%	247/500 [00:37<00:48, 5.22it/s]
Power Factorization: 50%	248/500 [00:38<00:48, 5.15it/s]
Power Factorization: 50%	249/500 [00:38<00:57, 4.38it/s]
Power Factorization: 50%	250/500 [00:38<00:54, 4.58it/s]
Power Factorization: 50%	251/500 [00:38<00:52, 4.78it/s]
Power Factorization: 50%	252/500 [00:39<00:50, 4.94it/s]
Power Factorization: 51%	253/500 [00:39<00:48, 5.05it/s]
Power Factorization: 51%	254/500 [00:39<00:49, 5.00it/s]
Power Factorization: 51%	255/500 [00:39<00:47, 5.13it/s]
Power Factorization: 51%	256/500 [00:39<00:45, 5.37it/s]
Power Factorization: 51%	257/500 [00:39<00:43, 5.57it/s]

Power Factorization: 52%	258/500 [00:40<00:42, 5.72it/s]
Power Factorization: 52%	259/500 [00:40<00:41, 5.86it/s]
Power Factorization: 52%	260/500 [00:40<00:39, 6.05it/s]
Power Factorization: 52%	261/500 [00:40<00:38, 6.21it/s]
Power Factorization: 52%	262/500 [00:40<00:37, 6.34it/s]
Power Factorization: 53%	263/500 [00:40<00:36, 6.44it/s]
Power Factorization: 53%	264/500 [00:41<00:35, 6.58it/s]
Power Factorization: 53%	265/500 [00:41<00:35, 6.69it/s]
Power Factorization: 53%	266/500 [00:41<00:34, 6.73it/s]
Power Factorization: 53%	267/500 [00:41<00:34, 6.71it/s]
Power Factorization: 54%	268/500 [00:41<00:34, 6.78it/s]
Power Factorization: 54%	269/500 [00:41<00:34, 6.76it/s]
Power Factorization: 54%	270/500 [00:41<00:33, 6.77it/s]
Power Factorization: 54%	271/500 [00:42<00:33, 6.80it/s]
Power Factorization: 54%	272/500 [00:42<00:33, 6.77it/s]
Power Factorization: 55%	273/500 [00:42<00:33, 6.78it/s]
Power Factorization: 55%	274/500 [00:42<00:33, 6.83it/s]
Power Factorization: 55%	275/500 [00:42<00:33, 6.79it/s]
Power Factorization: 55%	276/500 [00:42<00:32, 6.83it/s]
Power Factorization: 55%	277/500 [00:42<00:33, 6.74it/s]
Power Factorization: 56%	278/500 [00:43<00:32, 6.76it/s]
Power Factorization: 56%	279/500 [00:43<00:33, 6.50it/s]
Power Factorization: 56%	280/500 [00:43<00:34, 6.37it/s]
Power Factorization: 56%	281/500 [00:43<00:34, 6.40it/s]

Power Factorization: 56%	282/500 [00:43<00:33, 6.47it/s]
Power Factorization: 57%	283/500 [00:43<00:33, 6.51it/s]
Power Factorization: 57%	284/500 [00:43<00:32, 6.60it/s]
Power Factorization: 57%	285/500 [00:44<00:32, 6.68it/s]
Power Factorization: 57%	286/500 [00:44<00:32, 6.69it/s]
Power Factorization: 57%	287/500 [00:44<00:31, 6.70it/s]
Power Factorization: 58%	288/500 [00:44<00:31, 6.75it/s]
Power Factorization: 58%	289/500 [00:44<00:31, 6.60it/s]
Power Factorization: 58%	290/500 [00:44<00:31, 6.65it/s]
Power Factorization: 58%	291/500 [00:45<00:31, 6.71it/s]
Power Factorization: 58%	292/500 [00:45<00:30, 6.75it/s]
Power Factorization: 59%	293/500 [00:45<00:30, 6.77it/s]
Power Factorization: 59%	294/500 [00:45<00:30, 6.85it/s]
Power Factorization: 59%	295/500 [00:45<00:30, 6.82it/s]
Power Factorization: 59%	296/500 [00:45<00:29, 6.83it/s]
Power Factorization: 59%	297/500 [00:45<00:29, 6.85it/s]
Power Factorization: 60%	298/500 [00:46<00:29, 6.85it/s]
Power Factorization: 60%	299/500 [00:46<00:29, 6.79it/s]
Power Factorization: 60%	300/500 [00:46<00:29, 6.72it/s]
Power Factorization: 60%	301/500 [00:46<00:29, 6.69it/s]
Power Factorization: 60%	302/500 [00:46<00:29, 6.83it/s]
Power Factorization: 61%	303/500 [00:46<00:28, 6.80it/s]
Power Factorization: 61%	304/500 [00:46<00:29, 6.72it/s]
Power Factorization: 61%	305/500 [00:47<00:28, 6.80it/s]

Power Factorization: 61%	306/500 [00:47<00:28, 6.78it/s]
Power Factorization: 61%	307/500 [00:47<00:28, 6.81it/s]
Power Factorization: 62%	308/500 [00:47<00:28, 6.85it/s]
Power Factorization: 62%	309/500 [00:47<00:27, 6.87it/s]
Power Factorization: 62%	310/500 [00:47<00:27, 6.90it/s]
Power Factorization: 62%	311/500 [00:47<00:27, 6.79it/s]
Power Factorization: 62%	312/500 [00:48<00:27, 6.75it/s]
Power Factorization: 63%	313/500 [00:48<00:27, 6.74it/s]
Power Factorization: 63%	314/500 [00:48<00:27, 6.81it/s]
Power Factorization: 63%	315/500 [00:48<00:27, 6.82it/s]
Power Factorization: 63%	316/500 [00:48<00:27, 6.71it/s]
Power Factorization: 63%	317/500 [00:48<00:27, 6.69it/s]
Power Factorization: 64%	318/500 [00:49<00:27, 6.73it/s]
Power Factorization: 64%	319/500 [00:49<00:26, 6.80it/s]
Power Factorization: 64%	320/500 [00:49<00:26, 6.84it/s]
Power Factorization: 64%	321/500 [00:49<00:26, 6.83it/s]
Power Factorization: 64%	322/500 [00:49<00:26, 6.84it/s]
Power Factorization: 65%	323/500 [00:49<00:26, 6.68it/s]
Power Factorization: 65%	324/500 [00:49<00:26, 6.75it/s]
Power Factorization: 65%	325/500 [00:50<00:25, 6.74it/s]
Power Factorization: 65%	326/500 [00:50<00:25, 6.83it/s]
Power Factorization: 65%	327/500 [00:50<00:25, 6.88it/s]
Power Factorization: 66%	328/500 [00:50<00:25, 6.86it/s]
Power Factorization: 66%	329/500 [00:50<00:25, 6.82it/s]

Power Factorization: 66%	330/500 [00:50<00:24,	6.88it/s]
Power Factorization: 66%	331/500 [00:50<00:24,	6.90it/s]
Power Factorization: 66%	332/500 [00:51<00:24,	6.92it/s]
Power Factorization: 67%	333/500 [00:51<00:24,	6.87it/s]
Power Factorization: 67%	334/500 [00:51<00:24,	6.85it/s]
Power Factorization: 67%	335/500 [00:51<00:24,	6.82it/s]
Power Factorization: 67%	336/500 [00:51<00:23,	6.87it/s]
Power Factorization: 67%	337/500 [00:51<00:24,	6.78it/s]
Power Factorization: 68%	338/500 [00:51<00:23,	6.83it/s]
Power Factorization: 68%	339/500 [00:52<00:23,	6.82it/s]
Power Factorization: 68%	340/500 [00:52<00:23,	6.89it/s]
Power Factorization: 68%	341/500 [00:52<00:23,	6.85it/s]
Power Factorization: 68%	342/500 [00:52<00:23,	6.82it/s]
Power Factorization: 69%	343/500 [00:52<00:23,	6.79it/s]
Power Factorization: 69%	344/500 [00:52<00:23,	6.72it/s]
Power Factorization: 69%	345/500 [00:52<00:23,	6.68it/s]
Power Factorization: 69%	346/500 [00:53<00:22,	6.76it/s]
Power Factorization: 69%	347/500 [00:53<00:22,	6.82it/s]
Power Factorization: 70%	348/500 [00:53<00:22,	6.83it/s]
Power Factorization: 70%	349/500 [00:53<00:22,	6.86it/s]
Power Factorization: 70%	350/500 [00:53<00:21,	6.82it/s]
Power Factorization: 70%	351/500 [00:53<00:21,	6.81it/s]
Power Factorization: 70%	352/500 [00:53<00:21,	6.84it/s]
Power Factorization: 71%	353/500 [00:54<00:21,	6.82it/s]

Power Factorization: 71%	354/500 [00:54<00:21, 6.76it/s]
Power Factorization: 71%	355/500 [00:54<00:21, 6.77it/s]
Power Factorization: 71%	356/500 [00:54<00:21, 6.83it/s]
Power Factorization: 71%	357/500 [00:54<00:20, 6.83it/s]
Power Factorization: 72%	358/500 [00:54<00:20, 6.83it/s]
Power Factorization: 72%	359/500 [00:55<00:20, 6.91it/s]
Power Factorization: 72%	360/500 [00:55<00:20, 6.90it/s]
Power Factorization: 72%	361/500 [00:55<00:20, 6.89it/s]
Power Factorization: 72%	362/500 [00:55<00:20, 6.84it/s]
Power Factorization: 73%	363/500 [00:55<00:19, 6.89it/s]
Power Factorization: 73%	364/500 [00:55<00:19, 6.93it/s]
Power Factorization: 73%	365/500 [00:55<00:19, 6.87it/s]
Power Factorization: 73%	366/500 [00:56<00:19, 6.93it/s]
Power Factorization: 73%	367/500 [00:56<00:19, 6.97it/s]
Power Factorization: 74%	368/500 [00:56<00:19, 6.90it/s]
Power Factorization: 74%	369/500 [00:56<00:18, 6.97it/s]
Power Factorization: 74%	370/500 [00:56<00:18, 6.92it/s]
Power Factorization: 74%	371/500 [00:56<00:18, 6.85it/s]
Power Factorization: 74%	372/500 [00:56<00:18, 6.78it/s]
Power Factorization: 75%	373/500 [00:57<00:18, 6.75it/s]
Power Factorization: 75%	374/500 [00:57<00:18, 6.80it/s]
Power Factorization: 75%	375/500 [00:57<00:18, 6.80it/s]
Power Factorization: 75%	376/500 [00:57<00:18, 6.81it/s]
Power Factorization: 75%	377/500 [00:57<00:17, 6.87it/s]

Power Factorization: 76%	378/500 [00:57<00:17, 6.84it/s]
Power Factorization: 76%	379/500 [00:57<00:17, 6.86it/s]
Power Factorization: 76%	380/500 [00:58<00:17, 6.88it/s]
Power Factorization: 76%	381/500 [00:58<00:17, 6.86it/s]
Power Factorization: 76%	382/500 [00:58<00:17, 6.82it/s]
Power Factorization: 77%	383/500 [00:58<00:16, 6.89it/s]
Power Factorization: 77%	384/500 [00:58<00:16, 6.94it/s]
Power Factorization: 77%	385/500 [00:58<00:16, 7.01it/s]
Power Factorization: 77%	386/500 [00:58<00:16, 6.94it/s]
Power Factorization: 77%	387/500 [00:59<00:16, 6.89it/s]
Power Factorization: 78%	388/500 [00:59<00:16, 6.85it/s]
Power Factorization: 78%	389/500 [00:59<00:16, 6.82it/s]
Power Factorization: 78%	390/500 [00:59<00:16, 6.80it/s]
Power Factorization: 78%	391/500 [00:59<00:15, 6.87it/s]
Power Factorization: 78%	392/500 [00:59<00:15, 6.92it/s]
Power Factorization: 79%	393/500 [00:59<00:15, 6.91it/s]
Power Factorization: 79%	394/500 [01:00<00:15, 6.92it/s]
Power Factorization: 79%	395/500 [01:00<00:15, 6.92it/s]
Power Factorization: 79%	396/500 [01:00<00:15, 6.86it/s]
Power Factorization: 79%	397/500 [01:00<00:15, 6.85it/s]
Power Factorization: 80%	398/500 [01:00<00:14, 6.91it/s]
Power Factorization: 80%	399/500 [01:00<00:14, 6.97it/s]
Power Factorization: 80%	400/500 [01:00<00:14, 6.80it/s]
Power Factorization: 80%	401/500 [01:01<00:14, 6.75it/s]

Power Factorization: 80%	402/500 [01:01<00:14, 6.75it/s]
Power Factorization: 81%	403/500 [01:01<00:14, 6.78it/s]
Power Factorization: 81%	404/500 [01:01<00:14, 6.80it/s]
Power Factorization: 81%	405/500 [01:01<00:13, 6.79it/s]
Power Factorization: 81%	406/500 [01:01<00:13, 6.75it/s]
Power Factorization: 81%	407/500 [01:02<00:13, 6.69it/s]
Power Factorization: 82%	408/500 [01:02<00:13, 6.67it/s]
Power Factorization: 82%	409/500 [01:02<00:13, 6.78it/s]
Power Factorization: 82%	410/500 [01:02<00:13, 6.88it/s]
Power Factorization: 82%	411/500 [01:02<00:12, 6.92it/s]
Power Factorization: 82%	412/500 [01:02<00:12, 6.84it/s]
Power Factorization: 83%	413/500 [01:02<00:12, 6.88it/s]
Power Factorization: 83%	414/500 [01:03<00:12, 6.82it/s]
Power Factorization: 83%	415/500 [01:03<00:12, 6.71it/s]
Power Factorization: 83%	416/500 [01:03<00:12, 6.74it/s]
Power Factorization: 83%	417/500 [01:03<00:12, 6.76it/s]
Power Factorization: 84%	418/500 [01:03<00:12, 6.80it/s]
Power Factorization: 84%	419/500 [01:03<00:11, 6.86it/s]
Power Factorization: 84%	420/500 [01:03<00:11, 6.89it/s]
Power Factorization: 84%	421/500 [01:04<00:11, 6.85it/s]
Power Factorization: 84%	422/500 [01:04<00:11, 6.74it/s]
Power Factorization: 85%	423/500 [01:04<00:11, 6.54it/s]
Power Factorization: 85%	424/500 [01:04<00:11, 6.56it/s]
Power Factorization: 85%	425/500 [01:04<00:11, 6.63it/s]

Power Factorization: 85%	426/500 [01:04<00:11,	6.70it/s]
Power Factorization: 85%	427/500 [01:04<00:10,	6.73it/s]
Power Factorization: 86%	428/500 [01:05<00:10,	6.83it/s]
Power Factorization: 86%	429/500 [01:05<00:10,	6.90it/s]
Power Factorization: 86%	430/500 [01:05<00:10,	6.91it/s]
Power Factorization: 86%	431/500 [01:05<00:09,	6.94it/s]
Power Factorization: 86%	432/500 [01:05<00:09,	6.96it/s]
Power Factorization: 87%	433/500 [01:05<00:09,	6.99it/s]
Power Factorization: 87%	434/500 [01:05<00:09,	6.95it/s]
Power Factorization: 87%	435/500 [01:06<00:09,	6.95it/s]
Power Factorization: 87%	436/500 [01:06<00:09,	6.87it/s]
Power Factorization: 87%	437/500 [01:06<00:09,	6.84it/s]
Power Factorization: 88%	438/500 [01:06<00:09,	6.86it/s]
Power Factorization: 88%	439/500 [01:06<00:08,	6.84it/s]
Power Factorization: 88%	440/500 [01:06<00:08,	6.89it/s]
Power Factorization: 88%	441/500 [01:07<00:08,	6.86it/s]
Power Factorization: 88%	442/500 [01:07<00:08,	6.90it/s]
Power Factorization: 89%	443/500 [01:07<00:08,	6.94it/s]
Power Factorization: 89%	444/500 [01:07<00:08,	6.88it/s]
Power Factorization: 89%	445/500 [01:07<00:08,	6.83it/s]
Power Factorization: 89%	446/500 [01:07<00:07,	6.85it/s]
Power Factorization: 89%	447/500 [01:07<00:07,	6.81it/s]
Power Factorization: 90%	448/500 [01:08<00:07,	6.79it/s]
Power Factorization: 90%	449/500 [01:08<00:07,	6.79it/s]

Power Factorization: 90%	450/500 [01:08<00:07, 6.80it/s]
Power Factorization: 90%	451/500 [01:08<00:07, 6.74it/s]
Power Factorization: 90%	452/500 [01:08<00:07, 6.68it/s]
Power Factorization: 91%	453/500 [01:08<00:06, 6.72it/s]
Power Factorization: 91%	454/500 [01:08<00:06, 6.73it/s]
Power Factorization: 91%	455/500 [01:09<00:06, 6.78it/s]
Power Factorization: 91%	456/500 [01:09<00:06, 6.82it/s]
Power Factorization: 91%	457/500 [01:09<00:06, 6.92it/s]
Power Factorization: 92%	458/500 [01:09<00:06, 6.88it/s]
Power Factorization: 92%	459/500 [01:09<00:05, 6.86it/s]
Power Factorization: 92%	460/500 [01:09<00:05, 6.93it/s]
Power Factorization: 92%	461/500 [01:09<00:05, 6.90it/s]
Power Factorization: 92%	462/500 [01:10<00:05, 6.85it/s]
Power Factorization: 93%	463/500 [01:10<00:05, 6.84it/s]
Power Factorization: 93%	464/500 [01:10<00:05, 6.88it/s]
Power Factorization: 93%	465/500 [01:10<00:05, 6.92it/s]
Power Factorization: 93%	466/500 [01:10<00:04, 6.91it/s]
Power Factorization: 93%	467/500 [01:10<00:04, 6.86it/s]
Power Factorization: 94%	468/500 [01:10<00:04, 6.82it/s]
Power Factorization: 94%	469/500 [01:11<00:04, 6.78it/s]
Power Factorization: 94%	470/500 [01:11<00:04, 6.79it/s]
Power Factorization: 94%	471/500 [01:11<00:04, 6.85it/s]
Power Factorization: 94%	472/500 [01:11<00:04, 6.86it/s]
Power Factorization: 95%	473/500 [01:11<00:03, 6.82it/s]

Power Factorization: 95%	474/500 [01:11<00:03, 6.90it/s]
Power Factorization: 95%	475/500 [01:11<00:03, 6.87it/s]
Power Factorization: 95%	476/500 [01:12<00:03, 6.92it/s]
Power Factorization: 95%	477/500 [01:12<00:03, 6.95it/s]
Power Factorization: 96%	478/500 [01:12<00:03, 6.89it/s]
Power Factorization: 96%	479/500 [01:12<00:03, 6.84it/s]
Power Factorization: 96%	480/500 [01:12<00:02, 6.78it/s]
Power Factorization: 96%	481/500 [01:12<00:02, 6.76it/s]
Power Factorization: 96%	482/500 [01:13<00:02, 6.70it/s]
Power Factorization: 97%	483/500 [01:13<00:02, 6.72it/s]
Power Factorization: 97%	484/500 [01:13<00:02, 6.74it/s]
Power Factorization: 97%	485/500 [01:13<00:02, 6.80it/s]
Power Factorization: 97%	486/500 [01:13<00:02, 6.78it/s]
Power Factorization: 97%	487/500 [01:13<00:01, 6.81it/s]
Power Factorization: 98%	488/500 [01:13<00:01, 6.92it/s]
Power Factorization: 98%	489/500 [01:14<00:01, 6.86it/s]
Power Factorization: 98%	490/500 [01:14<00:01, 6.90it/s]
Power Factorization: 98%	491/500 [01:14<00:01, 6.95it/s]
Power Factorization: 98%	492/500 [01:14<00:01, 6.87it/s]
Power Factorization: 99%	493/500 [01:14<00:01, 6.93it/s]
Power Factorization: 99%	494/500 [01:14<00:00, 6.97it/s]
Power Factorization: 99%	495/500 [01:14<00:00, 6.83it/s]
Power Factorization: 99%	496/500 [01:15<00:00, 6.86it/s]
Power Factorization: 99%	497/500 [01:15<00:00, 6.89it/s]

Power Factorization: 100%	498/500 [01:15<00:00, 6.92it/s]
Power Factorization: 100%	499/500 [01:15<00:00, 6.92it/s]
Power Factorization: 100%	500/500 [01:15<00:00, 6.61it/s]
Cross Validation: 40%	2/5 [02:33<03:49, 76.40s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:12, 6.89it/s]
Power Factorization: 0%	2/500 [00:00<01:13, 6.74it/s]
Power Factorization: 1%	3/500 [00:00<01:13, 6.74it/s]
Power Factorization: 1%	4/500 [00:00<01:14, 6.65it/s]
Power Factorization: 1%	5/500 [00:00<01:13, 6.74it/s]
Power Factorization: 1%	6/500 [00:00<01:13, 6.73it/s]
Power Factorization: 1%	7/500 [00:01<01:12, 6.79it/s]
Power Factorization: 2%	8/500 [00:01<01:12, 6.78it/s]
Power Factorization: 2%	9/500 [00:01<01:12, 6.80it/s]
Power Factorization: 2%	10/500 [00:01<01:12, 6.74it/s]
Power Factorization: 2%	11/500 [00:01<01:12, 6.71it/s]
Power Factorization: 2%	12/500 [00:01<01:11, 6.78it/s]
Power Factorization: 3%	13/500 [00:01<01:11, 6.80it/s]
Power Factorization: 3%	14/500 [00:02<01:11, 6.82it/s]
Power Factorization: 3%	15/500 [00:02<01:09, 6.93it/s]
Power Factorization: 3%	16/500 [00:02<01:10, 6.87it/s]
Power Factorization: 3%	17/500 [00:02<01:10, 6.85it/s]
Power Factorization: 4%	18/500 [00:02<01:10, 6.85it/s]
Power Factorization: 4%	19/500 [00:02<01:10, 6.82it/s]

Power Factorization:	4%	20/500	[00:02<01:10,	6.83it/s]
Power Factorization:	4%	21/500	[00:03<01:09,	6.89it/s]
Power Factorization:	4%	22/500	[00:03<01:08,	6.94it/s]
Power Factorization:	5%	23/500	[00:03<01:08,	6.94it/s]
Power Factorization:	5%	24/500	[00:03<01:08,	6.93it/s]
Power Factorization:	5%	25/500	[00:03<01:09,	6.87it/s]
Power Factorization:	5%	26/500	[00:03<01:09,	6.81it/s]
Power Factorization:	5%	27/500	[00:03<01:09,	6.84it/s]
Power Factorization:	6%	28/500	[00:04<01:08,	6.89it/s]
Power Factorization:	6%	29/500	[00:04<01:09,	6.80it/s]
Power Factorization:	6%	30/500	[00:04<01:09,	6.77it/s]
Power Factorization:	6%	31/500	[00:04<01:08,	6.80it/s]
Power Factorization:	6%	32/500	[00:04<01:07,	6.91it/s]
Power Factorization:	7%	33/500	[00:04<01:08,	6.85it/s]
Power Factorization:	7%	34/500	[00:04<01:08,	6.85it/s]
Power Factorization:	7%	35/500	[00:05<01:07,	6.84it/s]
Power Factorization:	7%	36/500	[00:05<01:08,	6.81it/s]
Power Factorization:	7%	37/500	[00:05<01:08,	6.77it/s]
Power Factorization:	8%	38/500	[00:05<01:08,	6.72it/s]
Power Factorization:	8%	39/500	[00:05<01:08,	6.72it/s]
Power Factorization:	8%	40/500	[00:05<01:08,	6.75it/s]
Power Factorization:	8%	41/500	[00:06<01:07,	6.79it/s]
Power Factorization:	8%	42/500	[00:06<01:06,	6.84it/s]
Power Factorization:	9%	43/500	[00:06<01:07,	6.81it/s]

Power Factorization:	9%	44/500 [00:06<01:06, 6.86it/s]
Power Factorization:	9%	45/500 [00:06<01:05, 6.91it/s]
Power Factorization:	9%	46/500 [00:06<01:05, 6.98it/s]
Power Factorization:	9%	47/500 [00:06<01:05, 6.89it/s]
Power Factorization:	10%	48/500 [00:07<01:05, 6.86it/s]
Power Factorization:	10%	49/500 [00:07<01:05, 6.84it/s]
Power Factorization:	10%	50/500 [00:07<01:06, 6.79it/s]
Power Factorization:	10%	51/500 [00:07<01:05, 6.85it/s]
Power Factorization:	10%	52/500 [00:07<01:05, 6.82it/s]
Power Factorization:	11%	53/500 [00:07<01:05, 6.83it/s]
Power Factorization:	11%	54/500 [00:07<01:04, 6.88it/s]
Power Factorization:	11%	55/500 [00:08<01:04, 6.91it/s]
Power Factorization:	11%	56/500 [00:08<01:04, 6.88it/s]
Power Factorization:	11%	57/500 [00:08<01:04, 6.87it/s]
Power Factorization:	12%	58/500 [00:08<01:04, 6.89it/s]
Power Factorization:	12%	59/500 [00:08<01:03, 6.91it/s]
Power Factorization:	12%	60/500 [00:08<01:04, 6.87it/s]
Power Factorization:	12%	61/500 [00:08<01:04, 6.82it/s]
Power Factorization:	12%	62/500 [00:09<01:03, 6.89it/s]
Power Factorization:	13%	63/500 [00:09<01:03, 6.86it/s]
Power Factorization:	13%	64/500 [00:09<01:03, 6.90it/s]
Power Factorization:	13%	65/500 [00:09<01:03, 6.89it/s]
Power Factorization:	13%	66/500 [00:09<01:03, 6.82it/s]
Power Factorization:	13%	67/500 [00:09<01:03, 6.77it/s]

Power Factorization: 14%	68/500 [00:09<01:04,	6.71it/s]
Power Factorization: 14%	69/500 [00:10<01:05,	6.60it/s]
Power Factorization: 14%	70/500 [00:10<01:05,	6.60it/s]
Power Factorization: 14%	71/500 [00:10<01:05,	6.53it/s]
Power Factorization: 14%	72/500 [00:10<01:06,	6.47it/s]
Power Factorization: 15%	73/500 [00:10<01:07,	6.35it/s]
Power Factorization: 15%	74/500 [00:10<01:08,	6.18it/s]
Power Factorization: 15%	75/500 [00:11<01:08,	6.17it/s]
Power Factorization: 15%	76/500 [00:11<01:07,	6.24it/s]
Power Factorization: 15%	77/500 [00:11<01:06,	6.32it/s]
Power Factorization: 16%	78/500 [00:11<01:05,	6.44it/s]
Power Factorization: 16%	79/500 [00:11<01:04,	6.54it/s]
Power Factorization: 16%	80/500 [00:11<01:03,	6.61it/s]
Power Factorization: 16%	81/500 [00:11<01:02,	6.70it/s]
Power Factorization: 16%	82/500 [00:12<01:01,	6.75it/s]
Power Factorization: 17%	83/500 [00:12<01:01,	6.74it/s]
Power Factorization: 17%	84/500 [00:12<01:01,	6.76it/s]
Power Factorization: 17%	85/500 [00:12<01:01,	6.76it/s]
Power Factorization: 17%	86/500 [00:12<01:00,	6.82it/s]
Power Factorization: 17%	87/500 [00:12<01:00,	6.81it/s]
Power Factorization: 18%	88/500 [00:13<01:00,	6.79it/s]
Power Factorization: 18%	89/500 [00:13<01:00,	6.81it/s]
Power Factorization: 18%	90/500 [00:13<01:00,	6.79it/s]
Power Factorization: 18%	91/500 [00:13<01:00,	6.80it/s]

Power Factorization: 18%	92/500 [00:13<00:59, 6.85it/s]
Power Factorization: 19%	93/500 [00:13<00:59, 6.84it/s]
Power Factorization: 19%	94/500 [00:13<01:00, 6.76it/s]
Power Factorization: 19%	95/500 [00:14<01:00, 6.67it/s]
Power Factorization: 19%	96/500 [00:14<01:00, 6.64it/s]
Power Factorization: 19%	97/500 [00:14<01:01, 6.54it/s]
Power Factorization: 20%	98/500 [00:14<01:01, 6.48it/s]
Power Factorization: 20%	99/500 [00:14<01:01, 6.55it/s]
Power Factorization: 20%	100/500 [00:14<01:00, 6.64it/s]
Power Factorization: 20%	101/500 [00:14<00:59, 6.68it/s]
Power Factorization: 20%	102/500 [00:15<01:00, 6.63it/s]
Power Factorization: 21%	103/500 [00:15<01:00, 6.59it/s]
Power Factorization: 21%	104/500 [00:15<01:00, 6.55it/s]
Power Factorization: 21%	105/500 [00:15<00:59, 6.62it/s]
Power Factorization: 21%	106/500 [00:15<00:59, 6.58it/s]
Power Factorization: 21%	107/500 [00:15<00:59, 6.55it/s]
Power Factorization: 22%	108/500 [00:16<00:59, 6.64it/s]
Power Factorization: 22%	109/500 [00:16<00:59, 6.61it/s]
Power Factorization: 22%	110/500 [00:16<00:59, 6.59it/s]
Power Factorization: 22%	111/500 [00:16<00:59, 6.57it/s]
Power Factorization: 22%	112/500 [00:16<00:59, 6.53it/s]
Power Factorization: 23%	113/500 [00:16<00:58, 6.60it/s]
Power Factorization: 23%	114/500 [00:16<00:59, 6.54it/s]
Power Factorization: 23%	115/500 [00:17<00:58, 6.53it/s]

Power Factorization: 23%	116/500 [00:17<00:58, 6.55it/s]
Power Factorization: 23%	117/500 [00:17<00:59, 6.49it/s]
Power Factorization: 24%	118/500 [00:17<01:12, 5.29it/s]
Power Factorization: 24%	119/500 [00:17<01:09, 5.50it/s]
Power Factorization: 24%	120/500 [00:17<01:07, 5.66it/s]
Power Factorization: 24%	121/500 [00:18<01:08, 5.56it/s]
Power Factorization: 24%	122/500 [00:18<01:06, 5.65it/s]
Power Factorization: 25%	123/500 [00:18<01:06, 5.71it/s]
Power Factorization: 25%	124/500 [00:18<01:05, 5.70it/s]
Power Factorization: 25%	125/500 [00:18<01:05, 5.71it/s]
Power Factorization: 25%	126/500 [00:19<01:05, 5.71it/s]
Power Factorization: 25%	127/500 [00:19<01:04, 5.75it/s]
Power Factorization: 26%	128/500 [00:19<01:05, 5.70it/s]
Power Factorization: 26%	129/500 [00:19<01:04, 5.75it/s]
Power Factorization: 26%	130/500 [00:19<01:02, 5.90it/s]
Power Factorization: 26%	131/500 [00:19<01:00, 6.09it/s]
Power Factorization: 26%	132/500 [00:20<00:58, 6.25it/s]
Power Factorization: 27%	133/500 [00:20<00:57, 6.36it/s]
Power Factorization: 27%	134/500 [00:20<00:56, 6.51it/s]
Power Factorization: 27%	135/500 [00:20<00:54, 6.64it/s]
Power Factorization: 27%	136/500 [00:20<00:54, 6.65it/s]
Power Factorization: 27%	137/500 [00:20<00:55, 6.57it/s]
Power Factorization: 28%	138/500 [00:20<00:55, 6.55it/s]
Power Factorization: 28%	139/500 [00:21<00:54, 6.57it/s]

Power Factorization: 28%	140/500 [00:21<00:54, 6.61it/s]
Power Factorization: 28%	141/500 [00:21<00:54, 6.64it/s]
Power Factorization: 28%	142/500 [00:21<00:54, 6.60it/s]
Power Factorization: 29%	143/500 [00:21<00:53, 6.63it/s]
Power Factorization: 29%	144/500 [00:21<00:53, 6.68it/s]
Power Factorization: 29%	145/500 [00:21<00:52, 6.74it/s]
Power Factorization: 29%	146/500 [00:22<00:52, 6.77it/s]
Power Factorization: 29%	147/500 [00:22<00:52, 6.79it/s]
Power Factorization: 30%	148/500 [00:22<00:51, 6.80it/s]
Power Factorization: 30%	149/500 [00:22<00:51, 6.80it/s]
Power Factorization: 30%	150/500 [00:22<00:51, 6.83it/s]
Power Factorization: 30%	151/500 [00:22<00:51, 6.79it/s]
Power Factorization: 30%	152/500 [00:23<00:51, 6.81it/s]
Power Factorization: 31%	153/500 [00:23<00:50, 6.83it/s]
Power Factorization: 31%	154/500 [00:23<00:50, 6.87it/s]
Power Factorization: 31%	155/500 [00:23<00:49, 6.90it/s]
Power Factorization: 31%	156/500 [00:23<00:49, 6.91it/s]
Power Factorization: 31%	157/500 [00:23<00:49, 6.90it/s]
Power Factorization: 32%	158/500 [00:23<00:49, 6.89it/s]
Power Factorization: 32%	159/500 [00:24<00:49, 6.83it/s]
Power Factorization: 32%	160/500 [00:24<00:50, 6.78it/s]
Power Factorization: 32%	161/500 [00:24<00:50, 6.76it/s]
Power Factorization: 32%	162/500 [00:24<00:50, 6.73it/s]
Power Factorization: 33%	163/500 [00:24<00:49, 6.77it/s]

Power Factorization: 33%	164/500 [00:24<00:49, 6.80it/s]
Power Factorization: 33%	165/500 [00:24<00:49, 6.82it/s]
Power Factorization: 33%	166/500 [00:25<00:49, 6.78it/s]
Power Factorization: 33%	167/500 [00:25<00:48, 6.80it/s]
Power Factorization: 34%	168/500 [00:25<00:48, 6.81it/s]
Power Factorization: 34%	169/500 [00:25<00:49, 6.70it/s]
Power Factorization: 34%	170/500 [00:25<00:49, 6.67it/s]
Power Factorization: 34%	171/500 [00:25<00:48, 6.77it/s]
Power Factorization: 34%	172/500 [00:25<00:48, 6.77it/s]
Power Factorization: 35%	173/500 [00:26<00:47, 6.81it/s]
Power Factorization: 35%	174/500 [00:26<00:48, 6.67it/s]
Power Factorization: 35%	175/500 [00:26<00:48, 6.70it/s]
Power Factorization: 35%	176/500 [00:26<00:47, 6.78it/s]
Power Factorization: 35%	177/500 [00:26<00:47, 6.81it/s]
Power Factorization: 36%	178/500 [00:26<00:47, 6.81it/s]
Power Factorization: 36%	179/500 [00:26<00:47, 6.79it/s]
Power Factorization: 36%	180/500 [00:27<00:46, 6.83it/s]
Power Factorization: 36%	181/500 [00:27<00:46, 6.80it/s]
Power Factorization: 36%	182/500 [00:27<00:46, 6.79it/s]
Power Factorization: 37%	183/500 [00:27<00:51, 6.20it/s]
Power Factorization: 37%	184/500 [00:27<00:54, 5.79it/s]
Power Factorization: 37%	185/500 [00:27<00:53, 5.89it/s]
Power Factorization: 37%	186/500 [00:28<00:52, 5.95it/s]
Power Factorization: 37%	187/500 [00:28<00:53, 5.84it/s]

Power Factorization: 38%	188/500 [00:28<00:55,	5.65it/s]
Power Factorization: 38%	189/500 [00:28<00:54,	5.68it/s]
Power Factorization: 38%	190/500 [00:28<00:54,	5.69it/s]
Power Factorization: 38%	191/500 [00:29<00:54,	5.71it/s]
Power Factorization: 38%	192/500 [00:29<00:53,	5.75it/s]
Power Factorization: 39%	193/500 [00:29<00:51,	5.95it/s]
Power Factorization: 39%	194/500 [00:29<00:50,	6.10it/s]
Power Factorization: 39%	195/500 [00:29<00:48,	6.26it/s]
Power Factorization: 39%	196/500 [00:29<00:47,	6.43it/s]
Power Factorization: 39%	197/500 [00:29<00:46,	6.59it/s]
Power Factorization: 40%	198/500 [00:30<00:45,	6.69it/s]
Power Factorization: 40%	199/500 [00:30<00:44,	6.75it/s]
Power Factorization: 40%	200/500 [00:30<00:44,	6.76it/s]
Power Factorization: 40%	201/500 [00:30<00:44,	6.79it/s]
Power Factorization: 40%	202/500 [00:30<00:43,	6.79it/s]
Power Factorization: 41%	203/500 [00:30<00:43,	6.76it/s]
Power Factorization: 41%	204/500 [00:30<00:43,	6.76it/s]
Power Factorization: 41%	205/500 [00:31<00:43,	6.75it/s]
Power Factorization: 41%	206/500 [00:31<00:43,	6.69it/s]
Power Factorization: 41%	207/500 [00:31<00:44,	6.61it/s]
Power Factorization: 42%	208/500 [00:31<00:44,	6.52it/s]
Power Factorization: 42%	209/500 [00:31<00:44,	6.51it/s]
Power Factorization: 42%	210/500 [00:31<00:44,	6.53it/s]
Power Factorization: 42%	211/500 [00:32<00:44,	6.54it/s]

Power Factorization: 42%	212/500 [00:32<00:43, 6.55it/s]
Power Factorization: 43%	213/500 [00:32<00:43, 6.53it/s]
Power Factorization: 43%	214/500 [00:32<00:43, 6.52it/s]
Power Factorization: 43%	215/500 [00:32<00:43, 6.59it/s]
Power Factorization: 43%	216/500 [00:32<00:42, 6.67it/s]
Power Factorization: 43%	217/500 [00:32<00:42, 6.64it/s]
Power Factorization: 44%	218/500 [00:33<00:42, 6.68it/s]
Power Factorization: 44%	219/500 [00:33<00:41, 6.75it/s]
Power Factorization: 44%	220/500 [00:33<00:41, 6.78it/s]
Power Factorization: 44%	221/500 [00:33<00:40, 6.84it/s]
Power Factorization: 44%	222/500 [00:33<00:40, 6.87it/s]
Power Factorization: 45%	223/500 [00:33<00:40, 6.84it/s]
Power Factorization: 45%	224/500 [00:33<00:40, 6.86it/s]
Power Factorization: 45%	225/500 [00:34<00:39, 6.88it/s]
Power Factorization: 45%	226/500 [00:34<00:39, 6.85it/s]
Power Factorization: 45%	227/500 [00:34<00:40, 6.82it/s]
Power Factorization: 46%	228/500 [00:34<00:40, 6.80it/s]
Power Factorization: 46%	229/500 [00:34<00:39, 6.79it/s]
Power Factorization: 46%	230/500 [00:34<00:39, 6.78it/s]
Power Factorization: 46%	231/500 [00:35<00:39, 6.73it/s]
Power Factorization: 46%	232/500 [00:35<00:40, 6.70it/s]
Power Factorization: 47%	233/500 [00:35<00:39, 6.71it/s]
Power Factorization: 47%	234/500 [00:35<00:39, 6.72it/s]
Power Factorization: 47%	235/500 [00:35<00:39, 6.74it/s]

Power Factorization: 47%	236/500 [00:35<00:39, 6.72it/s]
Power Factorization: 47%	237/500 [00:35<00:38, 6.76it/s]
Power Factorization: 48%	238/500 [00:36<00:38, 6.76it/s]
Power Factorization: 48%	239/500 [00:36<00:38, 6.77it/s]
Power Factorization: 48%	240/500 [00:36<00:38, 6.73it/s]
Power Factorization: 48%	241/500 [00:36<00:38, 6.74it/s]
Power Factorization: 48%	242/500 [00:36<00:38, 6.73it/s]
Power Factorization: 49%	243/500 [00:36<00:37, 6.80it/s]
Power Factorization: 49%	244/500 [00:36<00:37, 6.78it/s]
Power Factorization: 49%	245/500 [00:37<00:37, 6.85it/s]
Power Factorization: 49%	246/500 [00:37<00:37, 6.86it/s]
Power Factorization: 49%	247/500 [00:37<00:36, 6.88it/s]
Power Factorization: 50%	248/500 [00:37<00:36, 6.85it/s]
Power Factorization: 50%	249/500 [00:37<00:36, 6.85it/s]
Power Factorization: 50%	250/500 [00:37<00:36, 6.81it/s]
Power Factorization: 50%	251/500 [00:37<00:36, 6.81it/s]
Power Factorization: 50%	252/500 [00:38<00:36, 6.81it/s]
Power Factorization: 51%	253/500 [00:38<00:36, 6.78it/s]
Power Factorization: 51%	254/500 [00:38<00:36, 6.76it/s]
Power Factorization: 51%	255/500 [00:38<00:36, 6.68it/s]
Power Factorization: 51%	256/500 [00:38<00:36, 6.65it/s]
Power Factorization: 51%	257/500 [00:38<00:36, 6.63it/s]
Power Factorization: 52%	258/500 [00:39<00:36, 6.71it/s]
Power Factorization: 52%	259/500 [00:39<00:35, 6.77it/s]

Power Factorization: 52%	260/500 [00:39<00:35, 6.84it/s]
Power Factorization: 52%	261/500 [00:39<00:34, 6.87it/s]
Power Factorization: 52%	262/500 [00:39<00:34, 6.95it/s]
Power Factorization: 53%	263/500 [00:39<00:34, 6.88it/s]
Power Factorization: 53%	264/500 [00:39<00:34, 6.89it/s]
Power Factorization: 53%	265/500 [00:40<00:34, 6.84it/s]
Power Factorization: 53%	266/500 [00:40<00:34, 6.81it/s]
Power Factorization: 53%	267/500 [00:40<00:34, 6.84it/s]
Power Factorization: 54%	268/500 [00:40<00:33, 6.83it/s]
Power Factorization: 54%	269/500 [00:40<00:33, 6.81it/s]
Power Factorization: 54%	270/500 [00:40<00:33, 6.85it/s]
Power Factorization: 54%	271/500 [00:40<00:33, 6.85it/s]
Power Factorization: 54%	272/500 [00:41<00:33, 6.87it/s]
Power Factorization: 55%	273/500 [00:41<00:32, 6.95it/s]
Power Factorization: 55%	274/500 [00:41<00:32, 6.97it/s]
Power Factorization: 55%	275/500 [00:41<00:32, 6.95it/s]
Power Factorization: 55%	276/500 [00:41<00:32, 6.88it/s]
Power Factorization: 55%	277/500 [00:41<00:32, 6.85it/s]
Power Factorization: 56%	278/500 [00:41<00:32, 6.78it/s]
Power Factorization: 56%	279/500 [00:42<00:32, 6.82it/s]
Power Factorization: 56%	280/500 [00:42<00:32, 6.84it/s]
Power Factorization: 56%	281/500 [00:42<00:32, 6.79it/s]
Power Factorization: 56%	282/500 [00:42<00:32, 6.73it/s]
Power Factorization: 57%	283/500 [00:42<00:32, 6.71it/s]

Power Factorization: 57%	284/500 [00:42<00:31, 6.75it/s]
Power Factorization: 57%	285/500 [00:42<00:31, 6.75it/s]
Power Factorization: 57%	286/500 [00:43<00:31, 6.79it/s]
Power Factorization: 57%	287/500 [00:43<00:31, 6.81it/s]
Power Factorization: 58%	288/500 [00:43<00:31, 6.82it/s]
Power Factorization: 58%	289/500 [00:43<00:31, 6.80it/s]
Power Factorization: 58%	290/500 [00:43<00:30, 6.79it/s]
Power Factorization: 58%	291/500 [00:43<00:30, 6.82it/s]
Power Factorization: 58%	292/500 [00:43<00:30, 6.80it/s]
Power Factorization: 59%	293/500 [00:44<00:30, 6.85it/s]
Power Factorization: 59%	294/500 [00:44<00:29, 6.95it/s]
Power Factorization: 59%	295/500 [00:44<00:29, 6.95it/s]
Power Factorization: 59%	296/500 [00:44<00:35, 5.75it/s]
Power Factorization: 59%	297/500 [00:44<00:40, 4.97it/s]
Power Factorization: 60%	298/500 [00:45<00:39, 5.08it/s]
Power Factorization: 60%	299/500 [00:45<00:37, 5.31it/s]
Power Factorization: 60%	300/500 [00:45<00:35, 5.56it/s]
Power Factorization: 60%	301/500 [00:45<00:34, 5.77it/s]
Power Factorization: 60%	302/500 [00:45<00:33, 5.93it/s]
Power Factorization: 61%	303/500 [00:45<00:32, 6.04it/s]
Power Factorization: 61%	304/500 [00:46<00:36, 5.35it/s]
Power Factorization: 61%	305/500 [00:46<00:35, 5.54it/s]
Power Factorization: 61%	306/500 [00:46<00:34, 5.63it/s]
Power Factorization: 61%	307/500 [00:46<00:33, 5.74it/s]

Power Factorization: 62%	308/500 [00:46<00:32, 5.91it/s]
Power Factorization: 62%	309/500 [00:46<00:31, 6.06it/s]
Power Factorization: 62%	310/500 [00:47<00:30, 6.14it/s]
Power Factorization: 62%	311/500 [00:47<00:30, 6.24it/s]
Power Factorization: 62%	312/500 [00:47<00:30, 6.21it/s]
Power Factorization: 63%	313/500 [00:47<00:30, 6.16it/s]
Power Factorization: 63%	314/500 [00:47<00:30, 6.15it/s]
Power Factorization: 63%	315/500 [00:47<00:30, 6.11it/s]
Power Factorization: 63%	316/500 [00:48<00:30, 6.11it/s]
Power Factorization: 63%	317/500 [00:48<00:30, 6.06it/s]
Power Factorization: 64%	318/500 [00:48<00:30, 5.96it/s]
Power Factorization: 64%	319/500 [00:48<00:29, 6.09it/s]
Power Factorization: 64%	320/500 [00:48<00:29, 6.18it/s]
Power Factorization: 64%	321/500 [00:48<00:28, 6.32it/s]
Power Factorization: 64%	322/500 [00:49<00:27, 6.42it/s]
Power Factorization: 65%	323/500 [00:49<00:27, 6.50it/s]
Power Factorization: 65%	324/500 [00:49<00:26, 6.53it/s]
Power Factorization: 65%	325/500 [00:49<00:26, 6.53it/s]
Power Factorization: 65%	326/500 [00:49<00:26, 6.52it/s]
Power Factorization: 65%	327/500 [00:49<00:26, 6.61it/s]
Power Factorization: 66%	328/500 [00:49<00:25, 6.67it/s]
Power Factorization: 66%	329/500 [00:50<00:25, 6.75it/s]
Power Factorization: 66%	330/500 [00:50<00:24, 6.80it/s]
Power Factorization: 66%	331/500 [00:50<00:24, 6.77it/s]

Power Factorization: 66%	332/500 [00:50<00:24,	6.74it/s]
Power Factorization: 67%	333/500 [00:50<00:24,	6.69it/s]
Power Factorization: 67%	334/500 [00:50<00:24,	6.68it/s]
Power Factorization: 67%	335/500 [00:50<00:24,	6.76it/s]
Power Factorization: 67%	336/500 [00:51<00:24,	6.79it/s]
Power Factorization: 67%	337/500 [00:51<00:23,	6.82it/s]
Power Factorization: 68%	338/500 [00:51<00:23,	6.87it/s]
Power Factorization: 68%	339/500 [00:51<00:23,	6.88it/s]
Power Factorization: 68%	340/500 [00:51<00:22,	6.97it/s]
Power Factorization: 68%	341/500 [00:51<00:22,	6.99it/s]
Power Factorization: 68%	342/500 [00:51<00:22,	6.91it/s]
Power Factorization: 69%	343/500 [00:52<00:23,	6.79it/s]
Power Factorization: 69%	344/500 [00:52<00:22,	6.84it/s]
Power Factorization: 69%	345/500 [00:52<00:22,	6.85it/s]
Power Factorization: 69%	346/500 [00:52<00:22,	6.86it/s]
Power Factorization: 69%	347/500 [00:52<00:22,	6.84it/s]
Power Factorization: 70%	348/500 [00:52<00:22,	6.85it/s]
Power Factorization: 70%	349/500 [00:53<00:22,	6.78it/s]
Power Factorization: 70%	350/500 [00:53<00:21,	6.84it/s]
Power Factorization: 70%	351/500 [00:53<00:21,	6.85it/s]
Power Factorization: 70%	352/500 [00:53<00:21,	6.83it/s]
Power Factorization: 71%	353/500 [00:53<00:21,	6.74it/s]
Power Factorization: 71%	354/500 [00:53<00:21,	6.77it/s]
Power Factorization: 71%	355/500 [00:53<00:21,	6.80it/s]

Power Factorization: 71%	356/500 [00:54<00:21, 6.85it/s]
Power Factorization: 71%	357/500 [00:54<00:20, 6.84it/s]
Power Factorization: 72%	358/500 [00:54<00:20, 6.78it/s]
Power Factorization: 72%	359/500 [00:54<00:21, 6.70it/s]
Power Factorization: 72%	360/500 [00:54<00:21, 6.61it/s]
Power Factorization: 72%	361/500 [00:54<00:21, 6.60it/s]
Power Factorization: 72%	362/500 [00:54<00:20, 6.65it/s]
Power Factorization: 73%	363/500 [00:55<00:20, 6.66it/s]
Power Factorization: 73%	364/500 [00:55<00:20, 6.71it/s]
Power Factorization: 73%	365/500 [00:55<00:20, 6.74it/s]
Power Factorization: 73%	366/500 [00:55<00:19, 6.81it/s]
Power Factorization: 73%	367/500 [00:55<00:19, 6.83it/s]
Power Factorization: 74%	368/500 [00:55<00:19, 6.67it/s]
Power Factorization: 74%	369/500 [00:55<00:19, 6.77it/s]
Power Factorization: 74%	370/500 [00:56<00:19, 6.82it/s]
Power Factorization: 74%	371/500 [00:56<00:18, 6.94it/s]
Power Factorization: 74%	372/500 [00:56<00:18, 6.94it/s]
Power Factorization: 75%	373/500 [00:56<00:18, 6.97it/s]
Power Factorization: 75%	374/500 [00:56<00:18, 6.83it/s]
Power Factorization: 75%	375/500 [00:56<00:18, 6.89it/s]
Power Factorization: 75%	376/500 [00:56<00:17, 6.98it/s]
Power Factorization: 75%	377/500 [00:57<00:17, 6.94it/s]
Power Factorization: 76%	378/500 [00:57<00:17, 6.83it/s]
Power Factorization: 76%	379/500 [00:57<00:17, 6.75it/s]

Power Factorization: 76%	380/500 [00:57<00:17, 6.72it/s]
Power Factorization: 76%	381/500 [00:57<00:18, 6.58it/s]
Power Factorization: 76%	382/500 [00:57<00:18, 6.27it/s]
Power Factorization: 77%	383/500 [00:58<00:18, 6.26it/s]
Power Factorization: 77%	384/500 [00:58<00:18, 6.39it/s]
Power Factorization: 77%	385/500 [00:58<00:17, 6.51it/s]
Power Factorization: 77%	386/500 [00:58<00:17, 6.64it/s]
Power Factorization: 77%	387/500 [00:58<00:16, 6.73it/s]
Power Factorization: 78%	388/500 [00:58<00:16, 6.80it/s]
Power Factorization: 78%	389/500 [00:58<00:16, 6.91it/s]
Power Factorization: 78%	390/500 [00:59<00:15, 7.02it/s]
Power Factorization: 78%	391/500 [00:59<00:15, 7.12it/s]
Power Factorization: 78%	392/500 [00:59<00:15, 7.20it/s]
Power Factorization: 79%	393/500 [00:59<00:14, 7.20it/s]
Power Factorization: 79%	394/500 [00:59<00:15, 7.01it/s]
Power Factorization: 79%	395/500 [00:59<00:15, 6.96it/s]
Power Factorization: 79%	396/500 [00:59<00:14, 6.97it/s]
Power Factorization: 79%	397/500 [01:00<00:14, 6.99it/s]
Power Factorization: 80%	398/500 [01:00<00:14, 6.96it/s]
Power Factorization: 80%	399/500 [01:00<00:14, 7.01it/s]
Power Factorization: 80%	400/500 [01:00<00:14, 7.02it/s]
Power Factorization: 80%	401/500 [01:00<00:13, 7.09it/s]
Power Factorization: 80%	402/500 [01:00<00:13, 7.18it/s]
Power Factorization: 81%	403/500 [01:00<00:13, 7.26it/s]

Power Factorization: 81%	404/500 [01:01<00:13, 7.33it/s]
Power Factorization: 81%	405/500 [01:01<00:12, 7.38it/s]
Power Factorization: 81%	406/500 [01:01<00:12, 7.43it/s]
Power Factorization: 81%	407/500 [01:01<00:12, 7.43it/s]
Power Factorization: 82%	408/500 [01:01<00:12, 7.42it/s]
Power Factorization: 82%	409/500 [01:01<00:12, 7.47it/s]
Power Factorization: 82%	410/500 [01:01<00:12, 7.46it/s]
Power Factorization: 82%	411/500 [01:01<00:12, 7.40it/s]
Power Factorization: 82%	412/500 [01:02<00:11, 7.39it/s]
Power Factorization: 83%	413/500 [01:02<00:11, 7.42it/s]
Power Factorization: 83%	414/500 [01:02<00:11, 7.41it/s]
Power Factorization: 83%	415/500 [01:02<00:11, 7.41it/s]
Power Factorization: 83%	416/500 [01:02<00:11, 7.44it/s]
Power Factorization: 83%	417/500 [01:02<00:11, 7.43it/s]
Power Factorization: 84%	418/500 [01:02<00:10, 7.47it/s]
Power Factorization: 84%	419/500 [01:03<00:10, 7.46it/s]
Power Factorization: 84%	420/500 [01:03<00:10, 7.44it/s]
Power Factorization: 84%	421/500 [01:03<00:10, 7.43it/s]
Power Factorization: 84%	422/500 [01:03<00:10, 7.42it/s]
Power Factorization: 85%	423/500 [01:03<00:10, 7.40it/s]
Power Factorization: 85%	424/500 [01:03<00:10, 7.38it/s]
Power Factorization: 85%	425/500 [01:03<00:10, 7.30it/s]
Power Factorization: 85%	426/500 [01:04<00:10, 7.30it/s]
Power Factorization: 85%	427/500 [01:04<00:09, 7.31it/s]

Power Factorization: 86%	428/500 [01:04<00:09, 7.34it/s]
Power Factorization: 86%	429/500 [01:04<00:09, 7.36it/s]
Power Factorization: 86%	430/500 [01:04<00:09, 7.36it/s]
Power Factorization: 86%	431/500 [01:04<00:09, 7.34it/s]
Power Factorization: 86%	432/500 [01:04<00:09, 7.38it/s]
Power Factorization: 87%	433/500 [01:04<00:09, 7.43it/s]
Power Factorization: 87%	434/500 [01:05<00:08, 7.39it/s]
Power Factorization: 87%	435/500 [01:05<00:08, 7.42it/s]
Power Factorization: 87%	436/500 [01:05<00:08, 7.45it/s]
Power Factorization: 87%	437/500 [01:05<00:08, 7.45it/s]
Power Factorization: 88%	438/500 [01:05<00:08, 7.47it/s]
Power Factorization: 88%	439/500 [01:05<00:08, 7.37it/s]
Power Factorization: 88%	440/500 [01:05<00:08, 7.39it/s]
Power Factorization: 88%	441/500 [01:06<00:07, 7.40it/s]
Power Factorization: 88%	442/500 [01:06<00:07, 7.40it/s]
Power Factorization: 89%	443/500 [01:06<00:07, 7.45it/s]
Power Factorization: 89%	444/500 [01:06<00:07, 7.40it/s]
Power Factorization: 89%	445/500 [01:06<00:07, 7.43it/s]
Power Factorization: 89%	446/500 [01:06<00:07, 7.37it/s]
Power Factorization: 89%	447/500 [01:06<00:07, 7.32it/s]
Power Factorization: 90%	448/500 [01:07<00:07, 7.11it/s]
Power Factorization: 90%	449/500 [01:07<00:07, 7.03it/s]
Power Factorization: 90%	450/500 [01:07<00:07, 6.96it/s]
Power Factorization: 90%	451/500 [01:07<00:07, 6.95it/s]

Power Factorization: 90%	452/500 [01:07<00:07, 6.84it/s]
Power Factorization: 91%	453/500 [01:07<00:06, 6.90it/s]
Power Factorization: 91%	454/500 [01:07<00:06, 6.90it/s]
Power Factorization: 91%	455/500 [01:08<00:06, 6.77it/s]
Power Factorization: 91%	456/500 [01:08<00:07, 6.28it/s]
Power Factorization: 91%	457/500 [01:08<00:06, 6.39it/s]
Power Factorization: 92%	458/500 [01:08<00:06, 6.14it/s]
Power Factorization: 92%	459/500 [01:08<00:06, 6.31it/s]
Power Factorization: 92%	460/500 [01:08<00:06, 6.45it/s]
Power Factorization: 92%	461/500 [01:08<00:05, 6.59it/s]
Power Factorization: 92%	462/500 [01:09<00:05, 6.74it/s]
Power Factorization: 93%	463/500 [01:09<00:05, 6.91it/s]
Power Factorization: 93%	464/500 [01:09<00:05, 7.08it/s]
Power Factorization: 93%	465/500 [01:09<00:04, 7.19it/s]
Power Factorization: 93%	466/500 [01:09<00:04, 7.25it/s]
Power Factorization: 93%	467/500 [01:09<00:04, 7.34it/s]
Power Factorization: 94%	468/500 [01:09<00:04, 7.39it/s]
Power Factorization: 94%	469/500 [01:10<00:04, 7.45it/s]
Power Factorization: 94%	470/500 [01:10<00:04, 7.49it/s]
Power Factorization: 94%	471/500 [01:10<00:03, 7.53it/s]
Power Factorization: 94%	472/500 [01:10<00:03, 7.47it/s]
Power Factorization: 95%	473/500 [01:10<00:03, 7.46it/s]
Power Factorization: 95%	474/500 [01:10<00:03, 7.46it/s]
Power Factorization: 95%	475/500 [01:10<00:03, 7.48it/s]

Power Factorization: 95%	476/500 [01:10<00:03, 7.48it/s]
Power Factorization: 95%	477/500 [01:11<00:03, 7.45it/s]
Power Factorization: 96%	478/500 [01:11<00:02, 7.44it/s]
Power Factorization: 96%	479/500 [01:11<00:02, 7.44it/s]
Power Factorization: 96%	480/500 [01:11<00:02, 7.46it/s]
Power Factorization: 96%	481/500 [01:11<00:02, 7.41it/s]
Power Factorization: 96%	482/500 [01:11<00:02, 7.43it/s]
Power Factorization: 97%	483/500 [01:11<00:02, 7.39it/s]
Power Factorization: 97%	484/500 [01:12<00:02, 7.28it/s]
Power Factorization: 97%	485/500 [01:12<00:02, 7.25it/s]
Power Factorization: 97%	486/500 [01:12<00:01, 7.26it/s]
Power Factorization: 97%	487/500 [01:12<00:01, 7.30it/s]
Power Factorization: 98%	488/500 [01:12<00:01, 7.31it/s]
Power Factorization: 98%	489/500 [01:12<00:01, 7.32it/s]
Power Factorization: 98%	490/500 [01:12<00:01, 7.37it/s]
Power Factorization: 98%	491/500 [01:13<00:01, 7.39it/s]
Power Factorization: 98%	492/500 [01:13<00:01, 7.37it/s]
Power Factorization: 99%	493/500 [01:13<00:00, 7.12it/s]
Power Factorization: 99%	494/500 [01:13<00:00, 7.04it/s]
Power Factorization: 99%	495/500 [01:13<00:00, 7.10it/s]
Power Factorization: 99%	496/500 [01:13<00:00, 7.03it/s]
Power Factorization: 99%	497/500 [01:13<00:00, 6.88it/s]
Power Factorization: 100%	498/500 [01:14<00:00, 6.82it/s]
Power Factorization: 100%	499/500 [01:14<00:00, 6.79it/s]

Power Factorization: 100%	500/500 [01:14<00:00, 6.72it/s]
Cross Validation: 60%	3/5 [03:47<02:30, 75.48s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:25, 5.81it/s]
Power Factorization: 0%	2/500 [00:00<01:20, 6.20it/s]
Power Factorization: 1%	3/500 [00:00<01:17, 6.43it/s]
Power Factorization: 1%	4/500 [00:00<01:14, 6.65it/s]
Power Factorization: 1%	5/500 [00:00<01:13, 6.73it/s]
Power Factorization: 1%	6/500 [00:00<01:14, 6.61it/s]
Power Factorization: 1%	7/500 [00:01<01:17, 6.35it/s]
Power Factorization: 2%	8/500 [00:01<01:17, 6.32it/s]
Power Factorization: 2%	9/500 [00:01<01:16, 6.39it/s]
Power Factorization: 2%	10/500 [00:01<01:14, 6.54it/s]
Power Factorization: 2%	11/500 [00:01<01:13, 6.65it/s]
Power Factorization: 2%	12/500 [00:01<01:12, 6.70it/s]
Power Factorization: 3%	13/500 [00:01<01:12, 6.71it/s]
Power Factorization: 3%	14/500 [00:02<01:11, 6.77it/s]
Power Factorization: 3%	15/500 [00:02<01:11, 6.80it/s]
Power Factorization: 3%	16/500 [00:02<01:10, 6.86it/s]
Power Factorization: 3%	17/500 [00:02<01:09, 6.92it/s]
Power Factorization: 4%	18/500 [00:02<01:08, 7.02it/s]
Power Factorization: 4%	19/500 [00:02<01:07, 7.14it/s]
Power Factorization: 4%	20/500 [00:02<01:06, 7.26it/s]
Power Factorization: 4%	21/500 [00:03<01:05, 7.33it/s]

Power Factorization:	4%	22/500	[00:03<01:04,	7.39it/s]
Power Factorization:	5%	23/500	[00:03<01:04,	7.40it/s]
Power Factorization:	5%	24/500	[00:03<01:03,	7.44it/s]
Power Factorization:	5%	25/500	[00:03<01:03,	7.45it/s]
Power Factorization:	5%	26/500	[00:03<01:03,	7.42it/s]
Power Factorization:	5%	27/500	[00:03<01:03,	7.50it/s]
Power Factorization:	6%	28/500	[00:04<01:02,	7.58it/s]
Power Factorization:	6%	29/500	[00:04<01:01,	7.60it/s]
Power Factorization:	6%	30/500	[00:04<01:01,	7.65it/s]
Power Factorization:	6%	31/500	[00:04<01:01,	7.67it/s]
Power Factorization:	6%	32/500	[00:04<01:00,	7.68it/s]
Power Factorization:	7%	33/500	[00:04<01:00,	7.69it/s]
Power Factorization:	7%	34/500	[00:04<01:00,	7.67it/s]
Power Factorization:	7%	35/500	[00:04<01:00,	7.66it/s]
Power Factorization:	7%	36/500	[00:05<01:00,	7.64it/s]
Power Factorization:	7%	37/500	[00:05<01:00,	7.66it/s]
Power Factorization:	8%	38/500	[00:05<01:00,	7.67it/s]
Power Factorization:	8%	39/500	[00:05<00:59,	7.68it/s]
Power Factorization:	8%	40/500	[00:05<00:59,	7.69it/s]
Power Factorization:	8%	41/500	[00:05<00:59,	7.67it/s]
Power Factorization:	8%	42/500	[00:05<00:59,	7.68it/s]
Power Factorization:	9%	43/500	[00:05<00:59,	7.67it/s]
Power Factorization:	9%	44/500	[00:06<00:59,	7.69it/s]
Power Factorization:	9%	45/500	[00:06<00:59,	7.64it/s]

Power Factorization:	9%	46/500 [00:06<00:59, 7.59it/s]
Power Factorization:	9%	47/500 [00:06<00:59, 7.60it/s]
Power Factorization:	10%	48/500 [00:06<00:59, 7.65it/s]
Power Factorization:	10%	49/500 [00:06<00:59, 7.64it/s]
Power Factorization:	10%	50/500 [00:06<00:58, 7.67it/s]
Power Factorization:	10%	51/500 [00:07<00:58, 7.69it/s]
Power Factorization:	10%	52/500 [00:07<00:58, 7.71it/s]
Power Factorization:	11%	53/500 [00:07<00:58, 7.70it/s]
Power Factorization:	11%	54/500 [00:07<00:57, 7.71it/s]
Power Factorization:	11%	55/500 [00:07<00:57, 7.69it/s]
Power Factorization:	11%	56/500 [00:07<00:57, 7.72it/s]
Power Factorization:	11%	57/500 [00:07<00:57, 7.70it/s]
Power Factorization:	12%	58/500 [00:07<00:57, 7.71it/s]
Power Factorization:	12%	59/500 [00:08<00:57, 7.73it/s]
Power Factorization:	12%	60/500 [00:08<00:56, 7.72it/s]
Power Factorization:	12%	61/500 [00:08<00:56, 7.73it/s]
Power Factorization:	12%	62/500 [00:08<00:56, 7.71it/s]
Power Factorization:	13%	63/500 [00:08<00:56, 7.70it/s]
Power Factorization:	13%	64/500 [00:08<00:56, 7.71it/s]
Power Factorization:	13%	65/500 [00:08<00:56, 7.66it/s]
Power Factorization:	13%	66/500 [00:08<00:56, 7.69it/s]
Power Factorization:	13%	67/500 [00:09<00:56, 7.71it/s]
Power Factorization:	14%	68/500 [00:09<00:56, 7.69it/s]
Power Factorization:	14%	69/500 [00:09<00:56, 7.68it/s]

Power Factorization: 14%	70/500 [00:09<00:55, 7.72it/s]
Power Factorization: 14%	71/500 [00:09<00:56, 7.64it/s]
Power Factorization: 14%	72/500 [00:09<00:56, 7.56it/s]
Power Factorization: 15%	73/500 [00:09<00:56, 7.59it/s]
Power Factorization: 15%	74/500 [00:10<00:55, 7.65it/s]
Power Factorization: 15%	75/500 [00:10<00:55, 7.64it/s]
Power Factorization: 15%	76/500 [00:10<00:55, 7.66it/s]
Power Factorization: 15%	77/500 [00:10<00:55, 7.69it/s]
Power Factorization: 16%	78/500 [00:10<00:54, 7.68it/s]
Power Factorization: 16%	79/500 [00:10<00:55, 7.63it/s]
Power Factorization: 16%	80/500 [00:10<00:55, 7.56it/s]
Power Factorization: 16%	81/500 [00:10<00:55, 7.56it/s]
Power Factorization: 16%	82/500 [00:11<00:55, 7.59it/s]
Power Factorization: 17%	83/500 [00:11<00:54, 7.63it/s]
Power Factorization: 17%	84/500 [00:11<00:54, 7.66it/s]
Power Factorization: 17%	85/500 [00:11<00:53, 7.69it/s]
Power Factorization: 17%	86/500 [00:11<00:53, 7.67it/s]
Power Factorization: 17%	87/500 [00:11<00:53, 7.69it/s]
Power Factorization: 18%	88/500 [00:11<00:53, 7.73it/s]
Power Factorization: 18%	89/500 [00:11<00:53, 7.73it/s]
Power Factorization: 18%	90/500 [00:12<00:52, 7.76it/s]
Power Factorization: 18%	91/500 [00:12<00:52, 7.74it/s]
Power Factorization: 18%	92/500 [00:12<00:52, 7.73it/s]
Power Factorization: 19%	93/500 [00:12<00:52, 7.74it/s]

Power Factorization: 19%	94/500 [00:12<00:52, 7.74it/s]
Power Factorization: 19%	95/500 [00:12<00:52, 7.72it/s]
Power Factorization: 19%	96/500 [00:12<00:52, 7.74it/s]
Power Factorization: 19%	97/500 [00:13<00:52, 7.74it/s]
Power Factorization: 20%	98/500 [00:13<00:51, 7.74it/s]
Power Factorization: 20%	99/500 [00:13<00:51, 7.76it/s]
Power Factorization: 20%	100/500 [00:13<00:51, 7.75it/s]
Power Factorization: 20%	101/500 [00:13<00:51, 7.74it/s]
Power Factorization: 20%	102/500 [00:13<00:51, 7.74it/s]
Power Factorization: 21%	103/500 [00:13<00:51, 7.71it/s]
Power Factorization: 21%	104/500 [00:13<00:51, 7.63it/s]
Power Factorization: 21%	105/500 [00:14<00:51, 7.67it/s]
Power Factorization: 21%	106/500 [00:14<00:51, 7.66it/s]
Power Factorization: 21%	107/500 [00:14<00:51, 7.64it/s]
Power Factorization: 22%	108/500 [00:14<00:51, 7.61it/s]
Power Factorization: 22%	109/500 [00:14<00:51, 7.62it/s]
Power Factorization: 22%	110/500 [00:14<00:51, 7.59it/s]
Power Factorization: 22%	111/500 [00:14<00:55, 6.95it/s]
Power Factorization: 22%	112/500 [00:15<00:54, 7.08it/s]
Power Factorization: 23%	113/500 [00:15<00:53, 7.24it/s]
Power Factorization: 23%	114/500 [00:15<00:52, 7.35it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.45it/s]
Power Factorization: 23%	116/500 [00:15<00:50, 7.53it/s]
Power Factorization: 23%	117/500 [00:15<00:50, 7.57it/s]

Power Factorization: 24%	118/500 [00:15<00:50, 7.64it/s]
Power Factorization: 24%	119/500 [00:15<00:49, 7.68it/s]
Power Factorization: 24%	120/500 [00:16<00:49, 7.70it/s]
Power Factorization: 24%	121/500 [00:16<00:49, 7.69it/s]
Power Factorization: 24%	122/500 [00:16<00:49, 7.71it/s]
Power Factorization: 25%	123/500 [00:16<00:48, 7.72it/s]
Power Factorization: 25%	124/500 [00:16<00:48, 7.70it/s]
Power Factorization: 25%	125/500 [00:16<00:48, 7.68it/s]
Power Factorization: 25%	126/500 [00:16<00:48, 7.68it/s]
Power Factorization: 25%	127/500 [00:16<00:48, 7.72it/s]
Power Factorization: 26%	128/500 [00:17<00:48, 7.74it/s]
Power Factorization: 26%	129/500 [00:17<00:47, 7.75it/s]
Power Factorization: 26%	130/500 [00:17<00:47, 7.72it/s]
Power Factorization: 26%	131/500 [00:17<00:47, 7.71it/s]
Power Factorization: 26%	132/500 [00:17<00:47, 7.67it/s]
Power Factorization: 27%	133/500 [00:17<00:47, 7.71it/s]
Power Factorization: 27%	134/500 [00:17<00:47, 7.72it/s]
Power Factorization: 27%	135/500 [00:17<00:47, 7.69it/s]
Power Factorization: 27%	136/500 [00:18<00:47, 7.68it/s]
Power Factorization: 27%	137/500 [00:18<00:47, 7.66it/s]
Power Factorization: 28%	138/500 [00:18<00:47, 7.55it/s]
Power Factorization: 28%	139/500 [00:18<00:48, 7.47it/s]
Power Factorization: 28%	140/500 [00:18<00:47, 7.52it/s]
Power Factorization: 28%	141/500 [00:18<00:47, 7.52it/s]

Power Factorization: 28%	142/500 [00:18<00:51, 6.92it/s]
Power Factorization: 29%	143/500 [00:19<01:02, 5.75it/s]
Power Factorization: 29%	144/500 [00:19<00:59, 6.02it/s]
Power Factorization: 29%	145/500 [00:19<00:56, 6.26it/s]
Power Factorization: 29%	146/500 [00:19<00:54, 6.52it/s]
Power Factorization: 29%	147/500 [00:19<00:52, 6.67it/s]
Power Factorization: 30%	148/500 [00:19<00:55, 6.36it/s]
Power Factorization: 30%	149/500 [00:20<00:53, 6.59it/s]
Power Factorization: 30%	150/500 [00:20<00:51, 6.74it/s]
Power Factorization: 30%	151/500 [00:20<00:50, 6.89it/s]
Power Factorization: 30%	152/500 [00:20<00:49, 7.02it/s]
Power Factorization: 31%	153/500 [00:20<00:48, 7.13it/s]
Power Factorization: 31%	154/500 [00:20<00:47, 7.21it/s]
Power Factorization: 31%	155/500 [00:20<00:47, 7.22it/s]
Power Factorization: 31%	156/500 [00:21<00:46, 7.33it/s]
Power Factorization: 31%	157/500 [00:21<00:46, 7.39it/s]
Power Factorization: 32%	158/500 [00:21<00:46, 7.41it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.43it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.44it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.45it/s]
Power Factorization: 32%	162/500 [00:21<00:45, 7.41it/s]
Power Factorization: 33%	163/500 [00:21<00:45, 7.44it/s]
Power Factorization: 33%	164/500 [00:22<00:45, 7.45it/s]
Power Factorization: 33%	165/500 [00:22<00:44, 7.45it/s]

Power Factorization: 33%	166/500 [00:22<00:44,	7.43it/s]
Power Factorization: 33%	167/500 [00:22<00:44,	7.44it/s]
Power Factorization: 34%	168/500 [00:22<00:44,	7.45it/s]
Power Factorization: 34%	169/500 [00:22<00:44,	7.44it/s]
Power Factorization: 34%	170/500 [00:22<00:44,	7.44it/s]
Power Factorization: 34%	171/500 [00:23<00:44,	7.42it/s]
Power Factorization: 34%	172/500 [00:23<00:44,	7.45it/s]
Power Factorization: 35%	173/500 [00:23<00:44,	7.39it/s]
Power Factorization: 35%	174/500 [00:23<00:44,	7.37it/s]
Power Factorization: 35%	175/500 [00:23<00:44,	7.36it/s]
Power Factorization: 35%	176/500 [00:23<00:43,	7.38it/s]
Power Factorization: 35%	177/500 [00:23<00:43,	7.38it/s]
Power Factorization: 36%	178/500 [00:24<00:43,	7.42it/s]
Power Factorization: 36%	179/500 [00:24<00:43,	7.41it/s]
Power Factorization: 36%	180/500 [00:24<00:43,	7.44it/s]
Power Factorization: 36%	181/500 [00:24<00:42,	7.46it/s]
Power Factorization: 36%	182/500 [00:24<00:43,	7.37it/s]
Power Factorization: 37%	183/500 [00:24<00:43,	7.37it/s]
Power Factorization: 37%	184/500 [00:24<00:43,	7.31it/s]
Power Factorization: 37%	185/500 [00:24<00:43,	7.28it/s]
Power Factorization: 37%	186/500 [00:25<00:43,	7.29it/s]
Power Factorization: 37%	187/500 [00:25<00:43,	7.23it/s]
Power Factorization: 38%	188/500 [00:25<00:43,	7.13it/s]
Power Factorization: 38%	189/500 [00:25<00:43,	7.13it/s]

Power Factorization: 38%	190/500 [00:25<00:43, 7.17it/s]
Power Factorization: 38%	191/500 [00:25<00:44, 6.96it/s]
Power Factorization: 38%	192/500 [00:25<00:43, 7.03it/s]
Power Factorization: 39%	193/500 [00:26<00:43, 7.02it/s]
Power Factorization: 39%	194/500 [00:26<00:43, 6.96it/s]
Power Factorization: 39%	195/500 [00:26<00:43, 7.06it/s]
Power Factorization: 39%	196/500 [00:26<00:43, 7.06it/s]
Power Factorization: 39%	197/500 [00:26<00:42, 7.12it/s]
Power Factorization: 40%	198/500 [00:26<00:41, 7.19it/s]
Power Factorization: 40%	199/500 [00:26<00:41, 7.24it/s]
Power Factorization: 40%	200/500 [00:27<00:41, 7.31it/s]
Power Factorization: 40%	201/500 [00:27<00:40, 7.32it/s]
Power Factorization: 40%	202/500 [00:27<00:40, 7.34it/s]
Power Factorization: 41%	203/500 [00:27<00:40, 7.33it/s]
Power Factorization: 41%	204/500 [00:27<00:40, 7.34it/s]
Power Factorization: 41%	205/500 [00:27<00:40, 7.34it/s]
Power Factorization: 41%	206/500 [00:27<00:40, 7.31it/s]
Power Factorization: 41%	207/500 [00:28<00:40, 7.32it/s]
Power Factorization: 42%	208/500 [00:28<00:39, 7.31it/s]
Power Factorization: 42%	209/500 [00:28<00:39, 7.30it/s]
Power Factorization: 42%	210/500 [00:28<00:39, 7.28it/s]
Power Factorization: 42%	211/500 [00:28<00:39, 7.26it/s]
Power Factorization: 42%	212/500 [00:28<00:39, 7.29it/s]
Power Factorization: 43%	213/500 [00:28<00:39, 7.30it/s]

Power Factorization: 43%	214/500 [00:28<00:38, 7.34it/s]
Power Factorization: 43%	215/500 [00:29<00:38, 7.32it/s]
Power Factorization: 43%	216/500 [00:29<00:38, 7.34it/s]
Power Factorization: 43%	217/500 [00:29<00:38, 7.36it/s]
Power Factorization: 44%	218/500 [00:29<00:38, 7.35it/s]
Power Factorization: 44%	219/500 [00:29<00:38, 7.39it/s]
Power Factorization: 44%	220/500 [00:29<00:37, 7.44it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.45it/s]
Power Factorization: 44%	222/500 [00:30<00:37, 7.46it/s]
Power Factorization: 45%	223/500 [00:30<00:37, 7.46it/s]
Power Factorization: 45%	224/500 [00:30<00:36, 7.48it/s]
Power Factorization: 45%	225/500 [00:30<00:36, 7.46it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.45it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.47it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.48it/s]
Power Factorization: 46%	229/500 [00:31<00:36, 7.46it/s]
Power Factorization: 46%	230/500 [00:31<00:36, 7.48it/s]
Power Factorization: 46%	231/500 [00:31<00:36, 7.47it/s]
Power Factorization: 46%	232/500 [00:31<00:35, 7.47it/s]
Power Factorization: 47%	233/500 [00:31<00:35, 7.46it/s]
Power Factorization: 47%	234/500 [00:31<00:35, 7.47it/s]
Power Factorization: 47%	235/500 [00:31<00:35, 7.49it/s]
Power Factorization: 47%	236/500 [00:31<00:35, 7.49it/s]
Power Factorization: 47%	237/500 [00:32<00:35, 7.46it/s]

Power Factorization: 48%	238/500 [00:32<00:35, 7.48it/s]
Power Factorization: 48%	239/500 [00:32<00:34, 7.49it/s]
Power Factorization: 48%	240/500 [00:32<00:34, 7.50it/s]
Power Factorization: 48%	241/500 [00:32<00:34, 7.43it/s]
Power Factorization: 48%	242/500 [00:32<00:35, 7.34it/s]
Power Factorization: 49%	243/500 [00:32<00:35, 7.31it/s]
Power Factorization: 49%	244/500 [00:33<00:34, 7.32it/s]
Power Factorization: 49%	245/500 [00:33<00:34, 7.33it/s]
Power Factorization: 49%	246/500 [00:33<00:34, 7.36it/s]
Power Factorization: 49%	247/500 [00:33<00:34, 7.37it/s]
Power Factorization: 50%	248/500 [00:33<00:34, 7.41it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.42it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.45it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.43it/s]
Power Factorization: 50%	252/500 [00:34<00:33, 7.45it/s]
Power Factorization: 51%	253/500 [00:34<00:33, 7.42it/s]
Power Factorization: 51%	254/500 [00:34<00:32, 7.48it/s]
Power Factorization: 51%	255/500 [00:34<00:32, 7.46it/s]
Power Factorization: 51%	256/500 [00:34<00:32, 7.48it/s]
Power Factorization: 51%	257/500 [00:34<00:32, 7.49it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.44it/s]
Power Factorization: 52%	259/500 [00:35<00:32, 7.42it/s]
Power Factorization: 52%	260/500 [00:35<00:32, 7.45it/s]
Power Factorization: 52%	261/500 [00:35<00:32, 7.46it/s]

Power Factorization: 52%	262/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	264/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.52it/s]
Power Factorization: 53%	266/500 [00:35<00:31, 7.53it/s]
Power Factorization: 53%	267/500 [00:36<00:31, 7.49it/s]
Power Factorization: 54%	268/500 [00:36<00:31, 7.45it/s]
Power Factorization: 54%	269/500 [00:36<00:31, 7.43it/s]
Power Factorization: 54%	270/500 [00:36<00:31, 7.41it/s]
Power Factorization: 54%	271/500 [00:36<00:31, 7.37it/s]
Power Factorization: 54%	272/500 [00:36<00:31, 7.32it/s]
Power Factorization: 55%	273/500 [00:36<00:31, 7.31it/s]
Power Factorization: 55%	274/500 [00:37<00:30, 7.30it/s]
Power Factorization: 55%	275/500 [00:37<00:30, 7.32it/s]
Power Factorization: 55%	276/500 [00:37<00:30, 7.35it/s]
Power Factorization: 55%	277/500 [00:37<00:30, 7.40it/s]
Power Factorization: 56%	278/500 [00:37<00:29, 7.43it/s]
Power Factorization: 56%	279/500 [00:37<00:29, 7.45it/s]
Power Factorization: 56%	280/500 [00:37<00:29, 7.48it/s]
Power Factorization: 56%	281/500 [00:38<00:29, 7.44it/s]
Power Factorization: 56%	282/500 [00:38<00:29, 7.43it/s]
Power Factorization: 57%	283/500 [00:38<00:29, 7.35it/s]
Power Factorization: 57%	284/500 [00:38<00:29, 7.25it/s]
Power Factorization: 57%	285/500 [00:38<00:29, 7.20it/s]

Power Factorization: 57%	286/500 [00:38<00:29, 7.19it/s]
Power Factorization: 57%	287/500 [00:38<00:29, 7.21it/s]
Power Factorization: 58%	288/500 [00:38<00:29, 7.27it/s]
Power Factorization: 58%	289/500 [00:39<00:28, 7.32it/s]
Power Factorization: 58%	290/500 [00:39<00:28, 7.34it/s]
Power Factorization: 58%	291/500 [00:39<00:28, 7.39it/s]
Power Factorization: 58%	292/500 [00:39<00:28, 7.40it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.43it/s]
Power Factorization: 59%	294/500 [00:39<00:27, 7.46it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.48it/s]
Power Factorization: 59%	296/500 [00:40<00:27, 7.47it/s]
Power Factorization: 59%	297/500 [00:40<00:27, 7.50it/s]
Power Factorization: 60%	298/500 [00:40<00:26, 7.50it/s]
Power Factorization: 60%	299/500 [00:40<00:26, 7.49it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.49it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.46it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.46it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.36it/s]
Power Factorization: 61%	304/500 [00:41<00:26, 7.34it/s]
Power Factorization: 61%	305/500 [00:41<00:26, 7.33it/s]
Power Factorization: 61%	306/500 [00:41<00:26, 7.22it/s]
Power Factorization: 61%	307/500 [00:41<00:32, 6.02it/s]
Power Factorization: 62%	308/500 [00:41<00:30, 6.37it/s]
Power Factorization: 62%	309/500 [00:41<00:28, 6.67it/s]

Power Factorization: 62%	310/500 [00:42<00:27, 6.91it/s]
Power Factorization: 62%	311/500 [00:42<00:26, 7.06it/s]
Power Factorization: 62%	312/500 [00:42<00:26, 7.14it/s]
Power Factorization: 63%	313/500 [00:42<00:25, 7.25it/s]
Power Factorization: 63%	314/500 [00:42<00:25, 7.32it/s]
Power Factorization: 63%	315/500 [00:42<00:25, 7.35it/s]
Power Factorization: 63%	316/500 [00:42<00:24, 7.41it/s]
Power Factorization: 63%	317/500 [00:42<00:24, 7.44it/s]
Power Factorization: 64%	318/500 [00:43<00:24, 7.46it/s]
Power Factorization: 64%	319/500 [00:43<00:24, 7.47it/s]
Power Factorization: 64%	320/500 [00:43<00:24, 7.49it/s]
Power Factorization: 64%	321/500 [00:43<00:23, 7.50it/s]
Power Factorization: 64%	322/500 [00:43<00:23, 7.42it/s]
Power Factorization: 65%	323/500 [00:43<00:23, 7.41it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.42it/s]
Power Factorization: 65%	325/500 [00:44<00:23, 7.43it/s]
Power Factorization: 65%	326/500 [00:44<00:23, 7.40it/s]
Power Factorization: 65%	327/500 [00:44<00:23, 7.36it/s]
Power Factorization: 66%	328/500 [00:44<00:23, 7.35it/s]
Power Factorization: 66%	329/500 [00:44<00:23, 7.37it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.40it/s]
Power Factorization: 66%	331/500 [00:44<00:22, 7.39it/s]
Power Factorization: 66%	332/500 [00:44<00:22, 7.40it/s]
Power Factorization: 67%	333/500 [00:45<00:22, 7.38it/s]

Power Factorization: 67%	334/500 [00:45<00:22, 7.26it/s]
Power Factorization: 67%	335/500 [00:45<00:22, 7.24it/s]
Power Factorization: 67%	336/500 [00:45<00:22, 7.28it/s]
Power Factorization: 67%	337/500 [00:45<00:22, 7.30it/s]
Power Factorization: 68%	338/500 [00:45<00:21, 7.37it/s]
Power Factorization: 68%	339/500 [00:45<00:21, 7.40it/s]
Power Factorization: 68%	340/500 [00:46<00:21, 7.43it/s]
Power Factorization: 68%	341/500 [00:46<00:21, 7.44it/s]
Power Factorization: 68%	342/500 [00:46<00:21, 7.44it/s]
Power Factorization: 69%	343/500 [00:46<00:21, 7.44it/s]
Power Factorization: 69%	344/500 [00:46<00:20, 7.44it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.41it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.38it/s]
Power Factorization: 69%	347/500 [00:47<00:20, 7.38it/s]
Power Factorization: 70%	348/500 [00:47<00:20, 7.40it/s]
Power Factorization: 70%	349/500 [00:47<00:20, 7.39it/s]
Power Factorization: 70%	350/500 [00:47<00:20, 7.38it/s]
Power Factorization: 70%	351/500 [00:47<00:20, 7.44it/s]
Power Factorization: 70%	352/500 [00:47<00:19, 7.40it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.43it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.43it/s]
Power Factorization: 71%	355/500 [00:48<00:19, 7.39it/s]
Power Factorization: 71%	356/500 [00:48<00:19, 7.35it/s]
Power Factorization: 71%	357/500 [00:48<00:19, 7.40it/s]

Power Factorization: 72%	358/500 [00:48<00:19, 7.41it/s]
Power Factorization: 72%	359/500 [00:48<00:18, 7.42it/s]
Power Factorization: 72%	360/500 [00:48<00:18, 7.38it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.39it/s]
Power Factorization: 72%	362/500 [00:49<00:18, 7.37it/s]
Power Factorization: 73%	363/500 [00:49<00:18, 7.39it/s]
Power Factorization: 73%	364/500 [00:49<00:18, 7.41it/s]
Power Factorization: 73%	365/500 [00:49<00:18, 7.38it/s]
Power Factorization: 73%	366/500 [00:49<00:18, 7.24it/s]
Power Factorization: 73%	367/500 [00:49<00:18, 7.05it/s]
Power Factorization: 74%	368/500 [00:49<00:19, 6.72it/s]
Power Factorization: 74%	369/500 [00:50<00:19, 6.88it/s]
Power Factorization: 74%	370/500 [00:50<00:18, 7.05it/s]
Power Factorization: 74%	371/500 [00:50<00:17, 7.17it/s]
Power Factorization: 74%	372/500 [00:50<00:17, 7.24it/s]
Power Factorization: 75%	373/500 [00:50<00:17, 7.27it/s]
Power Factorization: 75%	374/500 [00:50<00:17, 7.30it/s]
Power Factorization: 75%	375/500 [00:50<00:17, 7.34it/s]
Power Factorization: 75%	376/500 [00:51<00:16, 7.37it/s]
Power Factorization: 75%	377/500 [00:51<00:16, 7.38it/s]
Power Factorization: 76%	378/500 [00:51<00:16, 7.41it/s]
Power Factorization: 76%	379/500 [00:51<00:16, 7.42it/s]
Power Factorization: 76%	380/500 [00:51<00:16, 7.41it/s]
Power Factorization: 76%	381/500 [00:51<00:16, 7.44it/s]

Power Factorization: 76%	382/500 [00:51<00:15, 7.41it/s]
Power Factorization: 77%	383/500 [00:51<00:15, 7.41it/s]
Power Factorization: 77%	384/500 [00:52<00:15, 7.42it/s]
Power Factorization: 77%	385/500 [00:52<00:15, 7.43it/s]
Power Factorization: 77%	386/500 [00:52<00:15, 7.47it/s]
Power Factorization: 77%	387/500 [00:52<00:15, 7.45it/s]
Power Factorization: 78%	388/500 [00:52<00:15, 7.45it/s]
Power Factorization: 78%	389/500 [00:52<00:14, 7.43it/s]
Power Factorization: 78%	390/500 [00:52<00:14, 7.43it/s]
Power Factorization: 78%	391/500 [00:53<00:14, 7.42it/s]
Power Factorization: 78%	392/500 [00:53<00:14, 7.45it/s]
Power Factorization: 79%	393/500 [00:53<00:14, 7.42it/s]
Power Factorization: 79%	394/500 [00:53<00:14, 7.45it/s]
Power Factorization: 79%	395/500 [00:53<00:14, 7.41it/s]
Power Factorization: 79%	396/500 [00:53<00:14, 7.36it/s]
Power Factorization: 79%	397/500 [00:53<00:13, 7.37it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.40it/s]
Power Factorization: 80%	399/500 [00:54<00:13, 7.41it/s]
Power Factorization: 80%	400/500 [00:54<00:13, 7.39it/s]
Power Factorization: 80%	401/500 [00:54<00:13, 7.38it/s]
Power Factorization: 80%	402/500 [00:54<00:13, 7.38it/s]
Power Factorization: 81%	403/500 [00:54<00:13, 7.36it/s]
Power Factorization: 81%	404/500 [00:54<00:13, 7.34it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.41it/s]

Power Factorization: 81%	406/500 [00:55<00:12, 7.39it/s]
Power Factorization: 81%	407/500 [00:55<00:12, 7.35it/s]
Power Factorization: 82%	408/500 [00:55<00:12, 7.39it/s]
Power Factorization: 82%	409/500 [00:55<00:12, 7.42it/s]
Power Factorization: 82%	410/500 [00:55<00:12, 7.39it/s]
Power Factorization: 82%	411/500 [00:55<00:12, 7.30it/s]
Power Factorization: 82%	412/500 [00:55<00:12, 7.32it/s]
Power Factorization: 83%	413/500 [00:56<00:12, 7.15it/s]
Power Factorization: 83%	414/500 [00:56<00:12, 7.15it/s]
Power Factorization: 83%	415/500 [00:56<00:11, 7.18it/s]
Power Factorization: 83%	416/500 [00:56<00:11, 7.22it/s]
Power Factorization: 83%	417/500 [00:56<00:11, 7.29it/s]
Power Factorization: 84%	418/500 [00:56<00:11, 7.33it/s]
Power Factorization: 84%	419/500 [00:56<00:10, 7.40it/s]
Power Factorization: 84%	420/500 [00:56<00:10, 7.43it/s]
Power Factorization: 84%	421/500 [00:57<00:10, 7.28it/s]
Power Factorization: 84%	422/500 [00:57<00:10, 7.29it/s]
Power Factorization: 85%	423/500 [00:57<00:10, 7.32it/s]
Power Factorization: 85%	424/500 [00:57<00:10, 7.34it/s]
Power Factorization: 85%	425/500 [00:57<00:10, 7.38it/s]
Power Factorization: 85%	426/500 [00:57<00:09, 7.41it/s]
Power Factorization: 85%	427/500 [00:57<00:09, 7.38it/s]
Power Factorization: 86%	428/500 [00:58<00:09, 7.33it/s]
Power Factorization: 86%	429/500 [00:58<00:09, 7.36it/s]

Power Factorization: 86%	430/500 [00:58<00:09, 7.41it/s]
Power Factorization: 86%	431/500 [00:58<00:09, 7.42it/s]
Power Factorization: 86%	432/500 [00:58<00:09, 7.44it/s]
Power Factorization: 87%	433/500 [00:58<00:09, 7.43it/s]
Power Factorization: 87%	434/500 [00:58<00:08, 7.45it/s]
Power Factorization: 87%	435/500 [00:58<00:08, 7.46it/s]
Power Factorization: 87%	436/500 [00:59<00:08, 7.44it/s]
Power Factorization: 87%	437/500 [00:59<00:08, 7.40it/s]
Power Factorization: 88%	438/500 [00:59<00:08, 7.43it/s]
Power Factorization: 88%	439/500 [00:59<00:08, 7.39it/s]
Power Factorization: 88%	440/500 [00:59<00:08, 7.40it/s]
Power Factorization: 88%	441/500 [00:59<00:07, 7.42it/s]
Power Factorization: 88%	442/500 [00:59<00:07, 7.43it/s]
Power Factorization: 89%	443/500 [01:00<00:07, 7.43it/s]
Power Factorization: 89%	444/500 [01:00<00:07, 7.44it/s]
Power Factorization: 89%	445/500 [01:00<00:07, 7.46it/s]
Power Factorization: 89%	446/500 [01:00<00:07, 7.49it/s]
Power Factorization: 89%	447/500 [01:00<00:07, 7.52it/s]
Power Factorization: 90%	448/500 [01:00<00:06, 7.54it/s]
Power Factorization: 90%	449/500 [01:00<00:06, 7.50it/s]
Power Factorization: 90%	450/500 [01:01<00:06, 7.42it/s]
Power Factorization: 90%	451/500 [01:01<00:06, 7.39it/s]
Power Factorization: 90%	452/500 [01:01<00:06, 7.39it/s]
Power Factorization: 91%	453/500 [01:01<00:06, 7.42it/s]

Power Factorization: 91%	454/500 [01:01<00:06, 7.48it/s]
Power Factorization: 91%	455/500 [01:01<00:06, 7.49it/s]
Power Factorization: 91%	456/500 [01:01<00:05, 7.52it/s]
Power Factorization: 91%	457/500 [01:01<00:05, 7.51it/s]
Power Factorization: 92%	458/500 [01:02<00:05, 7.53it/s]
Power Factorization: 92%	459/500 [01:02<00:05, 7.54it/s]
Power Factorization: 92%	460/500 [01:02<00:05, 7.53it/s]
Power Factorization: 92%	461/500 [01:02<00:05, 7.52it/s]
Power Factorization: 92%	462/500 [01:02<00:05, 7.52it/s]
Power Factorization: 93%	463/500 [01:02<00:04, 7.49it/s]
Power Factorization: 93%	464/500 [01:02<00:04, 7.53it/s]
Power Factorization: 93%	465/500 [01:03<00:04, 7.51it/s]
Power Factorization: 93%	466/500 [01:03<00:04, 7.52it/s]
Power Factorization: 93%	467/500 [01:03<00:04, 7.52it/s]
Power Factorization: 94%	468/500 [01:03<00:04, 7.55it/s]
Power Factorization: 94%	469/500 [01:03<00:04, 7.54it/s]
Power Factorization: 94%	470/500 [01:03<00:03, 7.53it/s]
Power Factorization: 94%	471/500 [01:03<00:03, 7.54it/s]
Power Factorization: 94%	472/500 [01:03<00:03, 7.51it/s]
Power Factorization: 95%	473/500 [01:04<00:03, 7.52it/s]
Power Factorization: 95%	474/500 [01:04<00:03, 7.54it/s]
Power Factorization: 95%	475/500 [01:04<00:03, 7.53it/s]
Power Factorization: 95%	476/500 [01:04<00:03, 7.54it/s]
Power Factorization: 95%	477/500 [01:04<00:03, 7.54it/s]

Power Factorization: 96%	478/500 [01:04<00:02, 7.52it/s]
Power Factorization: 96%	479/500 [01:04<00:02, 7.52it/s]
Power Factorization: 96%	480/500 [01:05<00:02, 7.54it/s]
Power Factorization: 96%	481/500 [01:05<00:02, 7.55it/s]
Power Factorization: 96%	482/500 [01:05<00:02, 7.53it/s]
Power Factorization: 97%	483/500 [01:05<00:02, 7.44it/s]
Power Factorization: 97%	484/500 [01:05<00:02, 7.43it/s]
Power Factorization: 97%	485/500 [01:05<00:02, 7.44it/s]
Power Factorization: 97%	486/500 [01:05<00:01, 7.47it/s]
Power Factorization: 97%	487/500 [01:05<00:01, 7.48it/s]
Power Factorization: 98%	488/500 [01:06<00:01, 7.52it/s]
Power Factorization: 98%	489/500 [01:06<00:01, 7.51it/s]
Power Factorization: 98%	490/500 [01:06<00:01, 7.52it/s]
Power Factorization: 98%	491/500 [01:06<00:01, 7.53it/s]
Power Factorization: 98%	492/500 [01:06<00:01, 7.52it/s]
Power Factorization: 99%	493/500 [01:06<00:00, 7.52it/s]
Power Factorization: 99%	494/500 [01:06<00:00, 7.54it/s]
Power Factorization: 99%	495/500 [01:07<00:00, 7.47it/s]
Power Factorization: 99%	496/500 [01:07<00:00, 7.42it/s]
Power Factorization: 99%	497/500 [01:07<00:00, 7.41it/s]
Power Factorization: 100%	498/500 [01:07<00:00, 7.43it/s]
Power Factorization: 100%	499/500 [01:07<00:00, 7.39it/s]
Power Factorization: 100%	500/500 [01:07<00:00, 7.39it/s]
Cross Validation: 80%	4/5 [04:55<01:12, 72.42s/it]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<01:06, 7.48it/s]
Power Factorization:	0%	2/500 [00:00<01:07, 7.40it/s]
Power Factorization:	1%	3/500 [00:00<01:07, 7.38it/s]
Power Factorization:	1%	4/500 [00:00<01:07, 7.29it/s]
Power Factorization:	1%	5/500 [00:00<01:07, 7.32it/s]
Power Factorization:	1%	6/500 [00:00<01:07, 7.36it/s]
Power Factorization:	1%	7/500 [00:00<01:06, 7.42it/s]
Power Factorization:	2%	8/500 [00:01<01:06, 7.45it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.48it/s]
Power Factorization:	2%	10/500 [00:01<01:05, 7.48it/s]
Power Factorization:	2%	11/500 [00:01<01:05, 7.49it/s]
Power Factorization:	2%	12/500 [00:01<01:05, 7.44it/s]
Power Factorization:	3%	13/500 [00:01<01:06, 7.35it/s]
Power Factorization:	3%	14/500 [00:01<01:06, 7.36it/s]
Power Factorization:	3%	15/500 [00:02<01:07, 7.22it/s]
Power Factorization:	3%	16/500 [00:02<01:19, 6.09it/s]
Power Factorization:	3%	17/500 [00:02<01:15, 6.37it/s]
Power Factorization:	4%	18/500 [00:02<01:12, 6.67it/s]
Power Factorization:	4%	19/500 [00:02<01:09, 6.90it/s]
Power Factorization:	4%	20/500 [00:02<01:07, 7.06it/s]
Power Factorization:	4%	21/500 [00:02<01:06, 7.21it/s]
Power Factorization:	4%	22/500 [00:03<01:05, 7.29it/s]
Power Factorization:	5%	23/500 [00:03<01:04, 7.35it/s]

Power Factorization:	5%	24/500	[00:03<01:04,	7.40it/s]
Power Factorization:	5%	25/500	[00:03<01:04,	7.41it/s]
Power Factorization:	5%	26/500	[00:03<01:03,	7.43it/s]
Power Factorization:	5%	27/500	[00:03<01:03,	7.39it/s]
Power Factorization:	6%	28/500	[00:03<01:03,	7.39it/s]
Power Factorization:	6%	29/500	[00:04<01:03,	7.39it/s]
Power Factorization:	6%	30/500	[00:04<01:03,	7.36it/s]
Power Factorization:	6%	31/500	[00:04<01:03,	7.35it/s]
Power Factorization:	6%	32/500	[00:04<01:03,	7.37it/s]
Power Factorization:	7%	33/500	[00:04<01:03,	7.37it/s]
Power Factorization:	7%	34/500	[00:04<01:03,	7.37it/s]
Power Factorization:	7%	35/500	[00:04<01:03,	7.38it/s]
Power Factorization:	7%	36/500	[00:04<01:02,	7.38it/s]
Power Factorization:	7%	37/500	[00:05<01:02,	7.42it/s]
Power Factorization:	8%	38/500	[00:05<01:02,	7.43it/s]
Power Factorization:	8%	39/500	[00:05<01:02,	7.43it/s]
Power Factorization:	8%	40/500	[00:05<01:01,	7.44it/s]
Power Factorization:	8%	41/500	[00:05<01:01,	7.41it/s]
Power Factorization:	8%	42/500	[00:05<01:01,	7.39it/s]
Power Factorization:	9%	43/500	[00:05<01:02,	7.35it/s]
Power Factorization:	9%	44/500	[00:06<01:02,	7.35it/s]
Power Factorization:	9%	45/500	[00:06<01:01,	7.38it/s]
Power Factorization:	9%	46/500	[00:06<01:01,	7.38it/s]
Power Factorization:	9%	47/500	[00:06<01:01,	7.38it/s]

Power Factorization: 10%	48/500 [00:06<01:01, 7.40it/s]
Power Factorization: 10%	49/500 [00:06<01:00, 7.44it/s]
Power Factorization: 10%	50/500 [00:06<01:00, 7.45it/s]
Power Factorization: 10%	51/500 [00:06<01:01, 7.30it/s]
Power Factorization: 10%	52/500 [00:07<01:01, 7.24it/s]
Power Factorization: 11%	53/500 [00:07<01:02, 7.13it/s]
Power Factorization: 11%	54/500 [00:07<01:01, 7.26it/s]
Power Factorization: 11%	55/500 [00:07<01:09, 6.43it/s]
Power Factorization: 11%	56/500 [00:07<01:07, 6.57it/s]
Power Factorization: 11%	57/500 [00:07<01:05, 6.72it/s]
Power Factorization: 12%	58/500 [00:08<01:04, 6.86it/s]
Power Factorization: 12%	59/500 [00:08<01:21, 5.41it/s]
Power Factorization: 12%	60/500 [00:08<01:20, 5.48it/s]
Power Factorization: 12%	61/500 [00:08<01:14, 5.89it/s]
Power Factorization: 12%	62/500 [00:08<01:09, 6.29it/s]
Power Factorization: 13%	63/500 [00:08<01:06, 6.54it/s]
Power Factorization: 13%	64/500 [00:09<01:04, 6.72it/s]
Power Factorization: 13%	65/500 [00:09<01:03, 6.90it/s]
Power Factorization: 13%	66/500 [00:09<01:01, 7.00it/s]
Power Factorization: 13%	67/500 [00:09<01:02, 6.95it/s]
Power Factorization: 14%	68/500 [00:09<01:00, 7.09it/s]
Power Factorization: 14%	69/500 [00:09<00:59, 7.20it/s]
Power Factorization: 14%	70/500 [00:09<00:58, 7.31it/s]
Power Factorization: 14%	71/500 [00:09<00:59, 7.24it/s]

Power Factorization: 14%	72/500 [00:10<00:58, 7.28it/s]
Power Factorization: 15%	73/500 [00:10<00:58, 7.29it/s]
Power Factorization: 15%	74/500 [00:10<00:58, 7.25it/s]
Power Factorization: 15%	75/500 [00:10<00:58, 7.26it/s]
Power Factorization: 15%	76/500 [00:10<00:58, 7.28it/s]
Power Factorization: 15%	77/500 [00:10<00:57, 7.33it/s]
Power Factorization: 16%	78/500 [00:10<00:57, 7.35it/s]
Power Factorization: 16%	79/500 [00:11<00:57, 7.35it/s]
Power Factorization: 16%	80/500 [00:11<00:56, 7.39it/s]
Power Factorization: 16%	81/500 [00:11<00:56, 7.45it/s]
Power Factorization: 16%	82/500 [00:11<00:56, 7.40it/s]
Power Factorization: 17%	83/500 [00:11<00:56, 7.39it/s]
Power Factorization: 17%	84/500 [00:11<00:56, 7.36it/s]
Power Factorization: 17%	85/500 [00:11<00:56, 7.37it/s]
Power Factorization: 17%	86/500 [00:12<00:55, 7.42it/s]
Power Factorization: 17%	87/500 [00:12<00:55, 7.41it/s]
Power Factorization: 18%	88/500 [00:12<00:55, 7.46it/s]
Power Factorization: 18%	89/500 [00:12<00:55, 7.44it/s]
Power Factorization: 18%	90/500 [00:12<00:55, 7.41it/s]
Power Factorization: 18%	91/500 [00:12<00:55, 7.41it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.46it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.48it/s]
Power Factorization: 19%	94/500 [00:13<00:54, 7.49it/s]
Power Factorization: 19%	95/500 [00:13<00:54, 7.47it/s]

Power Factorization: 19%	96/500 [00:13<00:53, 7.49it/s]
Power Factorization: 19%	97/500 [00:13<00:53, 7.48it/s]
Power Factorization: 20%	98/500 [00:13<00:53, 7.46it/s]
Power Factorization: 20%	99/500 [00:13<00:53, 7.43it/s]
Power Factorization: 20%	100/500 [00:13<00:53, 7.47it/s]
Power Factorization: 20%	101/500 [00:14<00:53, 7.50it/s]
Power Factorization: 20%	102/500 [00:14<00:53, 7.51it/s]
Power Factorization: 21%	103/500 [00:14<00:52, 7.53it/s]
Power Factorization: 21%	104/500 [00:14<00:52, 7.54it/s]
Power Factorization: 21%	105/500 [00:14<00:52, 7.52it/s]
Power Factorization: 21%	106/500 [00:14<00:52, 7.47it/s]
Power Factorization: 21%	107/500 [00:14<00:53, 7.41it/s]
Power Factorization: 22%	108/500 [00:14<00:52, 7.41it/s]
Power Factorization: 22%	109/500 [00:15<00:52, 7.41it/s]
Power Factorization: 22%	110/500 [00:15<00:52, 7.44it/s]
Power Factorization: 22%	111/500 [00:15<00:52, 7.46it/s]
Power Factorization: 22%	112/500 [00:15<00:52, 7.37it/s]
Power Factorization: 23%	113/500 [00:15<00:52, 7.39it/s]
Power Factorization: 23%	114/500 [00:15<00:52, 7.38it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.42it/s]
Power Factorization: 23%	116/500 [00:16<00:51, 7.47it/s]
Power Factorization: 23%	117/500 [00:16<00:51, 7.50it/s]
Power Factorization: 24%	118/500 [00:16<00:50, 7.52it/s]
Power Factorization: 24%	119/500 [00:16<00:50, 7.49it/s]

Power Factorization: 24%	120/500 [00:16<00:51, 7.34it/s]
Power Factorization: 24%	121/500 [00:16<00:52, 7.26it/s]
Power Factorization: 24%	122/500 [00:16<00:51, 7.27it/s]
Power Factorization: 25%	123/500 [00:17<00:52, 7.15it/s]
Power Factorization: 25%	124/500 [00:17<00:51, 7.24it/s]
Power Factorization: 25%	125/500 [00:17<00:51, 7.29it/s]
Power Factorization: 25%	126/500 [00:17<00:51, 7.32it/s]
Power Factorization: 25%	127/500 [00:17<00:50, 7.32it/s]
Power Factorization: 26%	128/500 [00:17<00:50, 7.32it/s]
Power Factorization: 26%	129/500 [00:17<00:50, 7.35it/s]
Power Factorization: 26%	130/500 [00:17<00:50, 7.35it/s]
Power Factorization: 26%	131/500 [00:18<00:49, 7.39it/s]
Power Factorization: 26%	132/500 [00:18<00:49, 7.44it/s]
Power Factorization: 27%	133/500 [00:18<00:49, 7.48it/s]
Power Factorization: 27%	134/500 [00:18<00:49, 7.46it/s]
Power Factorization: 27%	135/500 [00:18<00:49, 7.37it/s]
Power Factorization: 27%	136/500 [00:18<00:49, 7.38it/s]
Power Factorization: 27%	137/500 [00:18<00:49, 7.34it/s]
Power Factorization: 28%	138/500 [00:19<00:49, 7.27it/s]
Power Factorization: 28%	139/500 [00:19<00:49, 7.29it/s]
Power Factorization: 28%	140/500 [00:19<00:49, 7.27it/s]
Power Factorization: 28%	141/500 [00:19<00:49, 7.21it/s]
Power Factorization: 28%	142/500 [00:19<00:49, 7.27it/s]
Power Factorization: 29%	143/500 [00:19<00:49, 7.25it/s]

Power Factorization: 29%	144/500 [00:19<00:49, 7.25it/s]
Power Factorization: 29%	145/500 [00:20<00:48, 7.31it/s]
Power Factorization: 29%	146/500 [00:20<00:48, 7.37it/s]
Power Factorization: 29%	147/500 [00:20<00:47, 7.40it/s]
Power Factorization: 30%	148/500 [00:20<00:47, 7.43it/s]
Power Factorization: 30%	149/500 [00:20<00:47, 7.42it/s]
Power Factorization: 30%	150/500 [00:20<00:47, 7.42it/s]
Power Factorization: 30%	151/500 [00:20<00:47, 7.38it/s]
Power Factorization: 30%	152/500 [00:20<00:46, 7.41it/s]
Power Factorization: 31%	153/500 [00:21<00:46, 7.39it/s]
Power Factorization: 31%	154/500 [00:21<00:47, 7.34it/s]
Power Factorization: 31%	155/500 [00:21<00:47, 7.34it/s]
Power Factorization: 31%	156/500 [00:21<00:46, 7.34it/s]
Power Factorization: 31%	157/500 [00:21<00:46, 7.31it/s]
Power Factorization: 32%	158/500 [00:21<00:46, 7.33it/s]
Power Factorization: 32%	159/500 [00:21<00:46, 7.34it/s]
Power Factorization: 32%	160/500 [00:22<00:45, 7.40it/s]
Power Factorization: 32%	161/500 [00:22<00:45, 7.42it/s]
Power Factorization: 32%	162/500 [00:22<00:45, 7.49it/s]
Power Factorization: 33%	163/500 [00:22<00:44, 7.50it/s]
Power Factorization: 33%	164/500 [00:22<00:44, 7.49it/s]
Power Factorization: 33%	165/500 [00:22<00:44, 7.46it/s]
Power Factorization: 33%	166/500 [00:22<00:44, 7.43it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.44it/s]

Power Factorization: 34%	168/500 [00:23<00:44,	7.47it/s]
Power Factorization: 34%	169/500 [00:23<00:44,	7.47it/s]
Power Factorization: 34%	170/500 [00:23<00:44,	7.50it/s]
Power Factorization: 34%	171/500 [00:23<00:43,	7.50it/s]
Power Factorization: 34%	172/500 [00:23<00:44,	7.41it/s]
Power Factorization: 35%	173/500 [00:23<00:44,	7.40it/s]
Power Factorization: 35%	174/500 [00:23<00:44,	7.37it/s]
Power Factorization: 35%	175/500 [00:24<00:43,	7.42it/s]
Power Factorization: 35%	176/500 [00:24<00:43,	7.45it/s]
Power Factorization: 35%	177/500 [00:24<00:43,	7.41it/s]
Power Factorization: 36%	178/500 [00:24<00:43,	7.41it/s]
Power Factorization: 36%	179/500 [00:24<00:43,	7.41it/s]
Power Factorization: 36%	180/500 [00:24<00:43,	7.41it/s]
Power Factorization: 36%	181/500 [00:24<00:42,	7.44it/s]
Power Factorization: 36%	182/500 [00:25<00:43,	7.38it/s]
Power Factorization: 37%	183/500 [00:25<00:42,	7.40it/s]
Power Factorization: 37%	184/500 [00:25<00:42,	7.39it/s]
Power Factorization: 37%	185/500 [00:25<00:42,	7.39it/s]
Power Factorization: 37%	186/500 [00:25<00:42,	7.38it/s]
Power Factorization: 37%	187/500 [00:25<00:42,	7.35it/s]
Power Factorization: 38%	188/500 [00:25<00:42,	7.35it/s]
Power Factorization: 38%	189/500 [00:25<00:42,	7.34it/s]
Power Factorization: 38%	190/500 [00:26<00:41,	7.39it/s]
Power Factorization: 38%	191/500 [00:26<00:41,	7.43it/s]

Power Factorization: 38%	192/500 [00:26<00:41, 7.46it/s]
Power Factorization: 39%	193/500 [00:26<00:41, 7.46it/s]
Power Factorization: 39%	194/500 [00:26<00:41, 7.45it/s]
Power Factorization: 39%	195/500 [00:26<00:41, 7.40it/s]
Power Factorization: 39%	196/500 [00:26<00:41, 7.41it/s]
Power Factorization: 39%	197/500 [00:27<00:41, 7.39it/s]
Power Factorization: 40%	198/500 [00:27<00:40, 7.42it/s]
Power Factorization: 40%	199/500 [00:27<00:40, 7.44it/s]
Power Factorization: 40%	200/500 [00:27<00:40, 7.42it/s]
Power Factorization: 40%	201/500 [00:27<00:40, 7.41it/s]
Power Factorization: 40%	202/500 [00:27<00:40, 7.41it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.45it/s]
Power Factorization: 41%	204/500 [00:27<00:40, 7.30it/s]
Power Factorization: 41%	205/500 [00:28<00:39, 7.39it/s]
Power Factorization: 41%	206/500 [00:28<00:40, 7.24it/s]
Power Factorization: 41%	207/500 [00:28<00:43, 6.73it/s]
Power Factorization: 42%	208/500 [00:28<00:52, 5.57it/s]
Power Factorization: 42%	209/500 [00:28<00:49, 5.84it/s]
Power Factorization: 42%	210/500 [00:28<00:46, 6.26it/s]
Power Factorization: 42%	211/500 [00:29<00:45, 6.29it/s]
Power Factorization: 42%	212/500 [00:29<00:43, 6.59it/s]
Power Factorization: 43%	213/500 [00:29<00:42, 6.82it/s]
Power Factorization: 43%	214/500 [00:29<00:40, 6.99it/s]
Power Factorization: 43%	215/500 [00:29<00:40, 7.03it/s]

Power Factorization: 43%	216/500 [00:29<00:40, 7.09it/s]
Power Factorization: 43%	217/500 [00:29<00:39, 7.10it/s]
Power Factorization: 44%	218/500 [00:30<00:39, 7.14it/s]
Power Factorization: 44%	219/500 [00:30<00:39, 7.17it/s]
Power Factorization: 44%	220/500 [00:30<00:38, 7.25it/s]
Power Factorization: 44%	221/500 [00:30<00:38, 7.32it/s]
Power Factorization: 44%	222/500 [00:30<00:37, 7.39it/s]
Power Factorization: 45%	223/500 [00:30<00:37, 7.41it/s]
Power Factorization: 45%	224/500 [00:30<00:37, 7.43it/s]
Power Factorization: 45%	225/500 [00:31<00:37, 7.26it/s]
Power Factorization: 45%	226/500 [00:31<00:42, 6.51it/s]
Power Factorization: 45%	227/500 [00:31<00:41, 6.66it/s]
Power Factorization: 46%	228/500 [00:31<00:39, 6.88it/s]
Power Factorization: 46%	229/500 [00:31<00:38, 7.03it/s]
Power Factorization: 46%	230/500 [00:31<00:37, 7.15it/s]
Power Factorization: 46%	231/500 [00:31<00:37, 7.18it/s]
Power Factorization: 46%	232/500 [00:32<00:36, 7.26it/s]
Power Factorization: 47%	233/500 [00:32<00:36, 7.26it/s]
Power Factorization: 47%	234/500 [00:32<00:36, 7.23it/s]
Power Factorization: 47%	235/500 [00:32<00:36, 7.25it/s]
Power Factorization: 47%	236/500 [00:32<00:36, 7.22it/s]
Power Factorization: 47%	237/500 [00:32<00:36, 7.29it/s]
Power Factorization: 48%	238/500 [00:32<00:35, 7.32it/s]
Power Factorization: 48%	239/500 [00:33<00:35, 7.27it/s]

Power Factorization: 48%	240/500 [00:33<00:35, 7.30it/s]
Power Factorization: 48%	241/500 [00:33<00:35, 7.30it/s]
Power Factorization: 48%	242/500 [00:33<00:35, 7.29it/s]
Power Factorization: 49%	243/500 [00:33<00:35, 7.32it/s]
Power Factorization: 49%	244/500 [00:33<00:34, 7.35it/s]
Power Factorization: 49%	245/500 [00:33<00:34, 7.33it/s]
Power Factorization: 49%	246/500 [00:33<00:34, 7.36it/s]
Power Factorization: 49%	247/500 [00:34<00:34, 7.39it/s]
Power Factorization: 50%	248/500 [00:34<00:34, 7.37it/s]
Power Factorization: 50%	249/500 [00:34<00:33, 7.44it/s]
Power Factorization: 50%	250/500 [00:34<00:33, 7.47it/s]
Power Factorization: 50%	251/500 [00:34<00:33, 7.46it/s]
Power Factorization: 50%	252/500 [00:34<00:33, 7.47it/s]
Power Factorization: 51%	253/500 [00:34<00:33, 7.44it/s]
Power Factorization: 51%	254/500 [00:35<00:33, 7.42it/s]
Power Factorization: 51%	255/500 [00:35<00:33, 7.40it/s]
Power Factorization: 51%	256/500 [00:35<00:32, 7.43it/s]
Power Factorization: 51%	257/500 [00:35<00:32, 7.47it/s]
Power Factorization: 52%	258/500 [00:35<00:32, 7.52it/s]
Power Factorization: 52%	259/500 [00:35<00:32, 7.53it/s]
Power Factorization: 52%	260/500 [00:35<00:31, 7.52it/s]
Power Factorization: 52%	261/500 [00:35<00:31, 7.53it/s]
Power Factorization: 52%	262/500 [00:36<00:31, 7.56it/s]
Power Factorization: 53%	263/500 [00:36<00:31, 7.44it/s]

Power Factorization: 53%	264/500 [00:36<00:31, 7.39it/s]
Power Factorization: 53%	265/500 [00:36<00:32, 7.33it/s]
Power Factorization: 53%	266/500 [00:36<00:31, 7.37it/s]
Power Factorization: 53%	267/500 [00:36<00:31, 7.36it/s]
Power Factorization: 54%	268/500 [00:36<00:31, 7.36it/s]
Power Factorization: 54%	269/500 [00:37<00:31, 7.38it/s]
Power Factorization: 54%	270/500 [00:37<00:31, 7.37it/s]
Power Factorization: 54%	271/500 [00:37<00:31, 7.30it/s]
Power Factorization: 54%	272/500 [00:37<00:31, 7.35it/s]
Power Factorization: 55%	273/500 [00:37<00:30, 7.38it/s]
Power Factorization: 55%	274/500 [00:37<00:31, 7.24it/s]
Power Factorization: 55%	275/500 [00:37<00:30, 7.29it/s]
Power Factorization: 55%	276/500 [00:38<00:30, 7.33it/s]
Power Factorization: 55%	277/500 [00:38<00:30, 7.36it/s]
Power Factorization: 56%	278/500 [00:38<00:30, 7.39it/s]
Power Factorization: 56%	279/500 [00:38<00:29, 7.37it/s]
Power Factorization: 56%	280/500 [00:38<00:29, 7.37it/s]
Power Factorization: 56%	281/500 [00:38<00:29, 7.37it/s]
Power Factorization: 56%	282/500 [00:38<00:29, 7.40it/s]
Power Factorization: 57%	283/500 [00:38<00:29, 7.44it/s]
Power Factorization: 57%	284/500 [00:39<00:28, 7.47it/s]
Power Factorization: 57%	285/500 [00:39<00:28, 7.51it/s]
Power Factorization: 57%	286/500 [00:39<00:28, 7.52it/s]
Power Factorization: 57%	287/500 [00:39<00:28, 7.49it/s]

Power Factorization: 58%	288/500 [00:39<00:28, 7.50it/s]
Power Factorization: 58%	289/500 [00:39<00:28, 7.51it/s]
Power Factorization: 58%	290/500 [00:39<00:27, 7.52it/s]
Power Factorization: 58%	291/500 [00:40<00:27, 7.49it/s]
Power Factorization: 58%	292/500 [00:40<00:27, 7.48it/s]
Power Factorization: 59%	293/500 [00:40<00:27, 7.46it/s]
Power Factorization: 59%	294/500 [00:40<00:27, 7.41it/s]
Power Factorization: 59%	295/500 [00:40<00:27, 7.37it/s]
Power Factorization: 59%	296/500 [00:40<00:27, 7.36it/s]
Power Factorization: 59%	297/500 [00:40<00:27, 7.36it/s]
Power Factorization: 60%	298/500 [00:40<00:27, 7.38it/s]
Power Factorization: 60%	299/500 [00:41<00:27, 7.41it/s]
Power Factorization: 60%	300/500 [00:41<00:26, 7.43it/s]
Power Factorization: 60%	301/500 [00:41<00:26, 7.39it/s]
Power Factorization: 60%	302/500 [00:41<00:26, 7.39it/s]
Power Factorization: 61%	303/500 [00:41<00:26, 7.36it/s]
Power Factorization: 61%	304/500 [00:41<00:26, 7.37it/s]
Power Factorization: 61%	305/500 [00:41<00:26, 7.36it/s]
Power Factorization: 61%	306/500 [00:42<00:26, 7.38it/s]
Power Factorization: 61%	307/500 [00:42<00:26, 7.40it/s]
Power Factorization: 62%	308/500 [00:42<00:25, 7.43it/s]
Power Factorization: 62%	309/500 [00:42<00:25, 7.43it/s]
Power Factorization: 62%	310/500 [00:42<00:25, 7.44it/s]
Power Factorization: 62%	311/500 [00:42<00:25, 7.46it/s]

Power Factorization: 62%	312/500 [00:42<00:25, 7.47it/s]
Power Factorization: 63%	313/500 [00:42<00:25, 7.43it/s]
Power Factorization: 63%	314/500 [00:43<00:24, 7.46it/s]
Power Factorization: 63%	315/500 [00:43<00:24, 7.41it/s]
Power Factorization: 63%	316/500 [00:43<00:24, 7.36it/s]
Power Factorization: 63%	317/500 [00:43<00:24, 7.35it/s]
Power Factorization: 64%	318/500 [00:43<00:24, 7.33it/s]
Power Factorization: 64%	319/500 [00:43<00:24, 7.37it/s]
Power Factorization: 64%	320/500 [00:43<00:24, 7.39it/s]
Power Factorization: 64%	321/500 [00:44<00:24, 7.39it/s]
Power Factorization: 64%	322/500 [00:44<00:24, 7.41it/s]
Power Factorization: 65%	323/500 [00:44<00:23, 7.45it/s]
Power Factorization: 65%	324/500 [00:44<00:23, 7.46it/s]
Power Factorization: 65%	325/500 [00:44<00:23, 7.44it/s]
Power Factorization: 65%	326/500 [00:44<00:23, 7.40it/s]
Power Factorization: 65%	327/500 [00:44<00:23, 7.41it/s]
Power Factorization: 66%	328/500 [00:45<00:23, 7.41it/s]
Power Factorization: 66%	329/500 [00:45<00:22, 7.44it/s]
Power Factorization: 66%	330/500 [00:45<00:22, 7.46it/s]
Power Factorization: 66%	331/500 [00:45<00:22, 7.48it/s]
Power Factorization: 66%	332/500 [00:45<00:22, 7.50it/s]
Power Factorization: 67%	333/500 [00:45<00:22, 7.50it/s]
Power Factorization: 67%	334/500 [00:45<00:22, 7.49it/s]
Power Factorization: 67%	335/500 [00:45<00:22, 7.46it/s]

Power Factorization: 67%	336/500 [00:46<00:21, 7.48it/s]
Power Factorization: 67%	337/500 [00:46<00:21, 7.49it/s]
Power Factorization: 68%	338/500 [00:46<00:21, 7.49it/s]
Power Factorization: 68%	339/500 [00:46<00:21, 7.49it/s]
Power Factorization: 68%	340/500 [00:46<00:21, 7.53it/s]
Power Factorization: 68%	341/500 [00:46<00:21, 7.55it/s]
Power Factorization: 68%	342/500 [00:46<00:20, 7.56it/s]
Power Factorization: 69%	343/500 [00:47<00:20, 7.54it/s]
Power Factorization: 69%	344/500 [00:47<00:20, 7.54it/s]
Power Factorization: 69%	345/500 [00:47<00:20, 7.51it/s]
Power Factorization: 69%	346/500 [00:47<00:20, 7.53it/s]
Power Factorization: 69%	347/500 [00:47<00:20, 7.50it/s]
Power Factorization: 70%	348/500 [00:47<00:20, 7.29it/s]
Power Factorization: 70%	349/500 [00:47<00:20, 7.33it/s]
Power Factorization: 70%	350/500 [00:47<00:20, 7.35it/s]
Power Factorization: 70%	351/500 [00:48<00:20, 7.42it/s]
Power Factorization: 70%	352/500 [00:48<00:19, 7.47it/s]
Power Factorization: 71%	353/500 [00:48<00:19, 7.50it/s]
Power Factorization: 71%	354/500 [00:48<00:19, 7.51it/s]
Power Factorization: 71%	355/500 [00:48<00:19, 7.53it/s]
Power Factorization: 71%	356/500 [00:48<00:19, 7.54it/s]
Power Factorization: 71%	357/500 [00:48<00:18, 7.55it/s]
Power Factorization: 72%	358/500 [00:49<00:18, 7.55it/s]
Power Factorization: 72%	359/500 [00:49<00:18, 7.54it/s]

Power Factorization: 72%	360/500 [00:49<00:18, 7.57it/s]
Power Factorization: 72%	361/500 [00:49<00:18, 7.55it/s]
Power Factorization: 72%	362/500 [00:49<00:18, 7.53it/s]
Power Factorization: 73%	363/500 [00:49<00:18, 7.52it/s]
Power Factorization: 73%	364/500 [00:49<00:18, 7.55it/s]
Power Factorization: 73%	365/500 [00:49<00:17, 7.54it/s]
Power Factorization: 73%	366/500 [00:50<00:17, 7.51it/s]
Power Factorization: 73%	367/500 [00:50<00:17, 7.52it/s]
Power Factorization: 74%	368/500 [00:50<00:17, 7.53it/s]
Power Factorization: 74%	369/500 [00:50<00:17, 7.51it/s]
Power Factorization: 74%	370/500 [00:50<00:17, 7.53it/s]
Power Factorization: 74%	371/500 [00:50<00:17, 7.50it/s]
Power Factorization: 74%	372/500 [00:50<00:17, 7.51it/s]
Power Factorization: 75%	373/500 [00:51<00:16, 7.50it/s]
Power Factorization: 75%	374/500 [00:51<00:16, 7.50it/s]
Power Factorization: 75%	375/500 [00:51<00:16, 7.48it/s]
Power Factorization: 75%	376/500 [00:51<00:16, 7.32it/s]
Power Factorization: 75%	377/500 [00:51<00:16, 7.37it/s]
Power Factorization: 76%	378/500 [00:51<00:16, 7.39it/s]
Power Factorization: 76%	379/500 [00:51<00:16, 7.39it/s]
Power Factorization: 76%	380/500 [00:51<00:16, 7.36it/s]
Power Factorization: 76%	381/500 [00:52<00:16, 7.38it/s]
Power Factorization: 76%	382/500 [00:52<00:15, 7.44it/s]
Power Factorization: 77%	383/500 [00:52<00:15, 7.46it/s]

Power Factorization: 77%	384/500 [00:52<00:15, 7.47it/s]
Power Factorization: 77%	385/500 [00:52<00:15, 7.47it/s]
Power Factorization: 77%	386/500 [00:52<00:15, 7.48it/s]
Power Factorization: 77%	387/500 [00:52<00:15, 7.49it/s]
Power Factorization: 78%	388/500 [00:53<00:14, 7.51it/s]
Power Factorization: 78%	389/500 [00:53<00:14, 7.52it/s]
Power Factorization: 78%	390/500 [00:53<00:14, 7.53it/s]
Power Factorization: 78%	391/500 [00:53<00:14, 7.52it/s]
Power Factorization: 78%	392/500 [00:53<00:14, 7.54it/s]
Power Factorization: 79%	393/500 [00:53<00:14, 7.54it/s]
Power Factorization: 79%	394/500 [00:53<00:14, 7.55it/s]
Power Factorization: 79%	395/500 [00:53<00:13, 7.54it/s]
Power Factorization: 79%	396/500 [00:54<00:13, 7.52it/s]
Power Factorization: 79%	397/500 [00:54<00:13, 7.52it/s]
Power Factorization: 80%	398/500 [00:54<00:13, 7.52it/s]
Power Factorization: 80%	399/500 [00:54<00:13, 7.51it/s]
Power Factorization: 80%	400/500 [00:54<00:13, 7.53it/s]
Power Factorization: 80%	401/500 [00:54<00:13, 7.52it/s]
Power Factorization: 80%	402/500 [00:54<00:13, 7.53it/s]
Power Factorization: 81%	403/500 [00:55<00:12, 7.53it/s]
Power Factorization: 81%	404/500 [00:55<00:12, 7.52it/s]
Power Factorization: 81%	405/500 [00:55<00:12, 7.51it/s]
Power Factorization: 81%	406/500 [00:55<00:12, 7.53it/s]
Power Factorization: 81%	407/500 [00:55<00:12, 7.53it/s]

Power Factorization: 82%	408/500 [00:55<00:12,	7.52it/s]
Power Factorization: 82%	409/500 [00:55<00:12,	7.52it/s]
Power Factorization: 82%	410/500 [00:55<00:11,	7.51it/s]
Power Factorization: 82%	411/500 [00:56<00:11,	7.49it/s]
Power Factorization: 82%	412/500 [00:56<00:11,	7.35it/s]
Power Factorization: 83%	413/500 [00:56<00:13,	6.65it/s]
Power Factorization: 83%	414/500 [00:56<00:12,	6.88it/s]
Power Factorization: 83%	415/500 [00:56<00:12,	7.06it/s]
Power Factorization: 83%	416/500 [00:56<00:11,	7.18it/s]
Power Factorization: 83%	417/500 [00:56<00:11,	7.25it/s]
Power Factorization: 84%	418/500 [00:57<00:11,	7.33it/s]
Power Factorization: 84%	419/500 [00:57<00:10,	7.39it/s]
Power Factorization: 84%	420/500 [00:57<00:10,	7.42it/s]
Power Factorization: 84%	421/500 [00:57<00:10,	7.45it/s]
Power Factorization: 84%	422/500 [00:57<00:10,	7.48it/s]
Power Factorization: 85%	423/500 [00:57<00:10,	7.48it/s]
Power Factorization: 85%	424/500 [00:57<00:10,	7.51it/s]
Power Factorization: 85%	425/500 [00:58<00:09,	7.51it/s]
Power Factorization: 85%	426/500 [00:58<00:09,	7.53it/s]
Power Factorization: 85%	427/500 [00:58<00:09,	7.51it/s]
Power Factorization: 86%	428/500 [00:58<00:09,	7.52it/s]
Power Factorization: 86%	429/500 [00:58<00:09,	7.41it/s]
Power Factorization: 86%	430/500 [00:58<00:09,	7.46it/s]
Power Factorization: 86%	431/500 [00:58<00:09,	7.49it/s]

Power Factorization: 86%	432/500 [00:58<00:09, 7.51it/s]
Power Factorization: 87%	433/500 [00:59<00:08, 7.53it/s]
Power Factorization: 87%	434/500 [00:59<00:08, 7.52it/s]
Power Factorization: 87%	435/500 [00:59<00:08, 7.53it/s]
Power Factorization: 87%	436/500 [00:59<00:08, 7.53it/s]
Power Factorization: 87%	437/500 [00:59<00:08, 7.53it/s]
Power Factorization: 88%	438/500 [00:59<00:08, 7.53it/s]
Power Factorization: 88%	439/500 [00:59<00:08, 7.53it/s]
Power Factorization: 88%	440/500 [01:00<00:07, 7.51it/s]
Power Factorization: 88%	441/500 [01:00<00:07, 7.50it/s]
Power Factorization: 88%	442/500 [01:00<00:07, 7.51it/s]
Power Factorization: 89%	443/500 [01:00<00:07, 7.50it/s]
Power Factorization: 89%	444/500 [01:00<00:07, 7.51it/s]
Power Factorization: 89%	445/500 [01:00<00:07, 7.51it/s]
Power Factorization: 89%	446/500 [01:00<00:07, 7.51it/s]
Power Factorization: 89%	447/500 [01:00<00:07, 7.51it/s]
Power Factorization: 90%	448/500 [01:01<00:06, 7.52it/s]
Power Factorization: 90%	449/500 [01:01<00:06, 7.51it/s]
Power Factorization: 90%	450/500 [01:01<00:06, 7.51it/s]
Power Factorization: 90%	451/500 [01:01<00:06, 7.49it/s]
Power Factorization: 90%	452/500 [01:01<00:06, 7.49it/s]
Power Factorization: 91%	453/500 [01:01<00:06, 7.50it/s]
Power Factorization: 91%	454/500 [01:01<00:06, 7.49it/s]
Power Factorization: 91%	455/500 [01:02<00:06, 7.50it/s]

Power Factorization: 91%	456/500 [01:02<00:05, 7.52it/s]
Power Factorization: 91%	457/500 [01:02<00:05, 7.51it/s]
Power Factorization: 92%	458/500 [01:02<00:05, 7.47it/s]
Power Factorization: 92%	459/500 [01:02<00:05, 7.47it/s]
Power Factorization: 92%	460/500 [01:02<00:05, 7.49it/s]
Power Factorization: 92%	461/500 [01:02<00:05, 7.40it/s]
Power Factorization: 92%	462/500 [01:02<00:05, 7.44it/s]
Power Factorization: 93%	463/500 [01:03<00:04, 7.47it/s]
Power Factorization: 93%	464/500 [01:03<00:04, 7.48it/s]
Power Factorization: 93%	465/500 [01:03<00:04, 7.47it/s]
Power Factorization: 93%	466/500 [01:03<00:04, 7.48it/s]
Power Factorization: 93%	467/500 [01:03<00:04, 7.49it/s]
Power Factorization: 94%	468/500 [01:03<00:04, 7.48it/s]
Power Factorization: 94%	469/500 [01:03<00:04, 7.49it/s]
Power Factorization: 94%	470/500 [01:04<00:04, 7.49it/s]
Power Factorization: 94%	471/500 [01:04<00:03, 7.50it/s]
Power Factorization: 94%	472/500 [01:04<00:03, 7.52it/s]
Power Factorization: 95%	473/500 [01:04<00:03, 7.51it/s]
Power Factorization: 95%	474/500 [01:04<00:03, 7.52it/s]
Power Factorization: 95%	475/500 [01:04<00:03, 7.50it/s]
Power Factorization: 95%	476/500 [01:04<00:03, 7.52it/s]
Power Factorization: 95%	477/500 [01:04<00:03, 7.52it/s]
Power Factorization: 96%	478/500 [01:05<00:02, 7.51it/s]
Power Factorization: 96%	479/500 [01:05<00:02, 7.51it/s]

Power Factorization: 96%| | 480/500 [01:05<00:02, 7.50it/s]

Power Factorization: 96%| | 481/500 [01:05<00:02, 7.50it/s]

Power Factorization: 96%| | 482/500 [01:05<00:02, 7.51it/s]

Power Factorization: 97%| | 483/500 [01:05<00:02, 7.52it/s]

Power Factorization: 97%| | 484/500 [01:05<00:02, 7.48it/s]

Power Factorization: 97%| | 485/500 [01:06<00:02, 7.49it/s]

Power Factorization: 97%| | 486/500 [01:06<00:01, 7.51it/s]

Power Factorization: 97%| | 487/500 [01:06<00:01, 7.50it/s]

Power Factorization: 98%| | 488/500 [01:06<00:01, 7.52it/s]

Power Factorization: 98%| | 489/500 [01:06<00:01, 7.49it/s]

Power Factorization: 98%| | 490/500 [01:06<00:01, 7.47it/s]

Power Factorization: 98%| | 491/500 [01:06<00:01, 7.48it/s]

Power Factorization: 98%| | 492/500 [01:06<00:01, 7.50it/s]

Power Factorization: 99%| | 493/500 [01:07<00:00, 7.51it/s]

Power Factorization: 99%| | 494/500 [01:07<00:00, 7.50it/s]

Power Factorization: 99%| | 495/500 [01:07<00:00, 7.24it/s]

Power Factorization: 99%| | 496/500 [01:07<00:00, 7.30it/s]

Power Factorization: 99%| | 497/500 [01:07<00:00, 7.32it/s]

Power Factorization: 100%| | 498/500 [01:07<00:00, 7.37it/s]

Power Factorization: 100%| | 499/500 [01:07<00:00, 7.42it/s]

Power Factorization: 100%| | 500/500 [01:08<00:00, 7.35it/s]

Cross Validation: 100%| | 5/5 [06:03<00:00, 72.66s/it]

Grid Search: 12%| | 2/16 [14:14<1:37:06, 416.17s/it]

Average RMS for k=5, lambda=1: 2.9247, Execution time: 72.6271s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<01:10, 7.12it/s]
Power Factorization:	0%	2/500 [00:00<01:08, 7.25it/s]
Power Factorization:	1%	3/500 [00:00<01:07, 7.37it/s]
Power Factorization:	1%	4/500 [00:00<01:06, 7.41it/s]
Power Factorization:	1%	5/500 [00:00<01:06, 7.47it/s]
Power Factorization:	1%	6/500 [00:00<01:05, 7.49it/s]
Power Factorization:	1%	7/500 [00:00<01:05, 7.48it/s]
Power Factorization:	2%	8/500 [00:01<01:05, 7.49it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.49it/s]
Power Factorization:	2%	10/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	11/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	12/500 [00:01<01:05, 7.49it/s]
Power Factorization:	3%	13/500 [00:01<01:04, 7.51it/s]
Power Factorization:	3%	14/500 [00:01<01:04, 7.52it/s]
Power Factorization:	3%	15/500 [00:02<01:04, 7.51it/s]
Power Factorization:	3%	16/500 [00:02<01:04, 7.50it/s]
Power Factorization:	3%	17/500 [00:02<01:04, 7.50it/s]
Power Factorization:	4%	18/500 [00:02<01:04, 7.51it/s]
Power Factorization:	4%	19/500 [00:02<01:03, 7.53it/s]
Power Factorization:	4%	20/500 [00:02<01:03, 7.53it/s]
Power Factorization:	4%	21/500 [00:02<01:03, 7.55it/s]
Power Factorization:	4%	22/500 [00:02<01:03, 7.54it/s]
Power Factorization:	5%	23/500 [00:03<01:03, 7.51it/s]

Power Factorization:	5%	24/500	[00:03<01:03, 7.50it/s]
Power Factorization:	5%	25/500	[00:03<01:03, 7.49it/s]
Power Factorization:	5%	26/500	[00:03<01:03, 7.51it/s]
Power Factorization:	5%	27/500	[00:03<01:03, 7.50it/s]
Power Factorization:	6%	28/500	[00:03<01:02, 7.53it/s]
Power Factorization:	6%	29/500	[00:03<01:02, 7.52it/s]
Power Factorization:	6%	30/500	[00:04<01:02, 7.51it/s]
Power Factorization:	6%	31/500	[00:04<01:02, 7.52it/s]
Power Factorization:	6%	32/500	[00:04<01:02, 7.51it/s]
Power Factorization:	7%	33/500	[00:04<01:02, 7.50it/s]
Power Factorization:	7%	34/500	[00:04<01:02, 7.49it/s]
Power Factorization:	7%	35/500	[00:04<01:01, 7.50it/s]
Power Factorization:	7%	36/500	[00:04<01:01, 7.50it/s]
Power Factorization:	7%	37/500	[00:04<01:01, 7.52it/s]
Power Factorization:	8%	38/500	[00:05<01:01, 7.51it/s]
Power Factorization:	8%	39/500	[00:05<01:01, 7.53it/s]
Power Factorization:	8%	40/500	[00:05<01:01, 7.53it/s]
Power Factorization:	8%	41/500	[00:05<01:00, 7.54it/s]
Power Factorization:	8%	42/500	[00:05<01:00, 7.54it/s]
Power Factorization:	9%	43/500	[00:05<01:00, 7.54it/s]
Power Factorization:	9%	44/500	[00:05<01:00, 7.54it/s]
Power Factorization:	9%	45/500	[00:05<01:00, 7.52it/s]
Power Factorization:	9%	46/500	[00:06<01:00, 7.54it/s]
Power Factorization:	9%	47/500	[00:06<01:00, 7.53it/s]

Power Factorization: 10%	48/500 [00:06<01:00, 7.53it/s]
Power Factorization: 10%	49/500 [00:06<01:00, 7.51it/s]
Power Factorization: 10%	50/500 [00:06<00:59, 7.52it/s]
Power Factorization: 10%	51/500 [00:06<00:59, 7.52it/s]
Power Factorization: 10%	52/500 [00:06<00:59, 7.54it/s]
Power Factorization: 11%	53/500 [00:07<00:59, 7.54it/s]
Power Factorization: 11%	54/500 [00:07<00:59, 7.55it/s]
Power Factorization: 11%	55/500 [00:07<00:59, 7.52it/s]
Power Factorization: 11%	56/500 [00:07<00:59, 7.52it/s]
Power Factorization: 11%	57/500 [00:07<00:59, 7.51it/s]
Power Factorization: 12%	58/500 [00:07<00:59, 7.48it/s]
Power Factorization: 12%	59/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	60/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	61/500 [00:08<00:58, 7.47it/s]
Power Factorization: 12%	62/500 [00:08<00:58, 7.45it/s]
Power Factorization: 13%	63/500 [00:08<00:58, 7.47it/s]
Power Factorization: 13%	64/500 [00:08<00:58, 7.47it/s]
Power Factorization: 13%	65/500 [00:08<00:58, 7.47it/s]
Power Factorization: 13%	66/500 [00:08<00:57, 7.49it/s]
Power Factorization: 13%	67/500 [00:08<00:57, 7.52it/s]
Power Factorization: 14%	68/500 [00:09<00:57, 7.50it/s]
Power Factorization: 14%	69/500 [00:09<00:57, 7.52it/s]
Power Factorization: 14%	70/500 [00:09<00:57, 7.51it/s]
Power Factorization: 14%	71/500 [00:09<00:57, 7.48it/s]

Power Factorization: 14%	72/500 [00:09<00:57, 7.44it/s]
Power Factorization: 15%	73/500 [00:09<00:57, 7.45it/s]
Power Factorization: 15%	74/500 [00:09<00:56, 7.49it/s]
Power Factorization: 15%	75/500 [00:09<00:56, 7.52it/s]
Power Factorization: 15%	76/500 [00:10<00:56, 7.49it/s]
Power Factorization: 15%	77/500 [00:10<00:56, 7.50it/s]
Power Factorization: 16%	78/500 [00:10<00:56, 7.50it/s]
Power Factorization: 16%	79/500 [00:10<00:56, 7.50it/s]
Power Factorization: 16%	80/500 [00:10<00:56, 7.49it/s]
Power Factorization: 16%	81/500 [00:10<00:55, 7.50it/s]
Power Factorization: 16%	82/500 [00:10<00:55, 7.51it/s]
Power Factorization: 17%	83/500 [00:11<00:55, 7.50it/s]
Power Factorization: 17%	84/500 [00:11<00:55, 7.53it/s]
Power Factorization: 17%	85/500 [00:11<00:54, 7.55it/s]
Power Factorization: 17%	86/500 [00:11<00:55, 7.53it/s]
Power Factorization: 17%	87/500 [00:11<00:54, 7.52it/s]
Power Factorization: 18%	88/500 [00:11<00:54, 7.51it/s]
Power Factorization: 18%	89/500 [00:11<00:54, 7.51it/s]
Power Factorization: 18%	90/500 [00:11<00:54, 7.53it/s]
Power Factorization: 18%	91/500 [00:12<00:54, 7.53it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.54it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.51it/s]
Power Factorization: 19%	94/500 [00:12<00:53, 7.52it/s]
Power Factorization: 19%	95/500 [00:12<00:53, 7.53it/s]

Power Factorization: 19%	96/500 [00:12<00:53, 7.53it/s]
Power Factorization: 19%	97/500 [00:12<00:53, 7.52it/s]
Power Factorization: 20%	98/500 [00:13<00:53, 7.51it/s]
Power Factorization: 20%	99/500 [00:13<00:53, 7.49it/s]
Power Factorization: 20%	100/500 [00:13<00:53, 7.50it/s]
Power Factorization: 20%	101/500 [00:13<00:53, 7.50it/s]
Power Factorization: 20%	102/500 [00:13<00:53, 7.50it/s]
Power Factorization: 21%	103/500 [00:13<00:52, 7.51it/s]
Power Factorization: 21%	104/500 [00:13<00:52, 7.53it/s]
Power Factorization: 21%	105/500 [00:13<00:52, 7.52it/s]
Power Factorization: 21%	106/500 [00:14<00:52, 7.50it/s]
Power Factorization: 21%	107/500 [00:14<00:52, 7.51it/s]
Power Factorization: 22%	108/500 [00:14<00:52, 7.51it/s]
Power Factorization: 22%	109/500 [00:14<00:52, 7.50it/s]
Power Factorization: 22%	110/500 [00:14<00:51, 7.51it/s]
Power Factorization: 22%	111/500 [00:14<00:51, 7.50it/s]
Power Factorization: 22%	112/500 [00:14<00:51, 7.51it/s]
Power Factorization: 23%	113/500 [00:15<00:51, 7.50it/s]
Power Factorization: 23%	114/500 [00:15<00:51, 7.52it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.54it/s]
Power Factorization: 23%	116/500 [00:15<00:50, 7.54it/s]
Power Factorization: 23%	117/500 [00:15<00:50, 7.52it/s]
Power Factorization: 24%	118/500 [00:15<00:50, 7.53it/s]
Power Factorization: 24%	119/500 [00:15<00:50, 7.54it/s]

Power Factorization: 24%	120/500 [00:15<00:50, 7.52it/s]
Power Factorization: 24%	121/500 [00:16<00:50, 7.52it/s]
Power Factorization: 24%	122/500 [00:16<00:50, 7.54it/s]
Power Factorization: 25%	123/500 [00:16<00:50, 7.52it/s]
Power Factorization: 25%	124/500 [00:16<00:49, 7.54it/s]
Power Factorization: 25%	125/500 [00:16<00:49, 7.54it/s]
Power Factorization: 25%	126/500 [00:16<00:49, 7.52it/s]
Power Factorization: 25%	127/500 [00:16<00:49, 7.50it/s]
Power Factorization: 26%	128/500 [00:17<00:49, 7.51it/s]
Power Factorization: 26%	129/500 [00:17<00:49, 7.50it/s]
Power Factorization: 26%	130/500 [00:17<00:49, 7.47it/s]
Power Factorization: 26%	131/500 [00:17<00:49, 7.48it/s]
Power Factorization: 26%	132/500 [00:17<00:49, 7.48it/s]
Power Factorization: 27%	133/500 [00:17<00:48, 7.49it/s]
Power Factorization: 27%	134/500 [00:17<00:48, 7.50it/s]
Power Factorization: 27%	135/500 [00:17<00:48, 7.50it/s]
Power Factorization: 27%	136/500 [00:18<00:48, 7.50it/s]
Power Factorization: 27%	137/500 [00:18<00:48, 7.51it/s]
Power Factorization: 28%	138/500 [00:18<00:48, 7.53it/s]
Power Factorization: 28%	139/500 [00:18<00:48, 7.52it/s]
Power Factorization: 28%	140/500 [00:18<00:47, 7.51it/s]
Power Factorization: 28%	141/500 [00:18<00:47, 7.48it/s]
Power Factorization: 28%	142/500 [00:18<00:47, 7.48it/s]
Power Factorization: 29%	143/500 [00:19<00:47, 7.50it/s]

Power Factorization: 29%	144/500 [00:19<00:47, 7.47it/s]
Power Factorization: 29%	145/500 [00:19<00:47, 7.45it/s]
Power Factorization: 29%	146/500 [00:19<00:47, 7.42it/s]
Power Factorization: 29%	147/500 [00:19<00:47, 7.43it/s]
Power Factorization: 30%	148/500 [00:19<00:47, 7.43it/s]
Power Factorization: 30%	149/500 [00:19<00:47, 7.44it/s]
Power Factorization: 30%	150/500 [00:19<00:46, 7.47it/s]
Power Factorization: 30%	151/500 [00:20<00:46, 7.43it/s]
Power Factorization: 30%	152/500 [00:20<00:46, 7.41it/s]
Power Factorization: 31%	153/500 [00:20<00:46, 7.45it/s]
Power Factorization: 31%	154/500 [00:20<00:46, 7.44it/s]
Power Factorization: 31%	155/500 [00:20<00:46, 7.44it/s]
Power Factorization: 31%	156/500 [00:20<00:46, 7.42it/s]
Power Factorization: 31%	157/500 [00:20<00:46, 7.43it/s]
Power Factorization: 32%	158/500 [00:21<00:46, 7.43it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.43it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.46it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.46it/s]
Power Factorization: 32%	162/500 [00:21<00:45, 7.47it/s]
Power Factorization: 33%	163/500 [00:21<00:45, 7.47it/s]
Power Factorization: 33%	164/500 [00:21<00:44, 7.47it/s]
Power Factorization: 33%	165/500 [00:22<00:44, 7.46it/s]
Power Factorization: 33%	166/500 [00:22<00:44, 7.44it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.41it/s]

Power Factorization: 34%	168/500 [00:22<00:44,	7.43it/s]
Power Factorization: 34%	169/500 [00:22<00:44,	7.42it/s]
Power Factorization: 34%	170/500 [00:22<00:44,	7.42it/s]
Power Factorization: 34%	171/500 [00:22<00:44,	7.39it/s]
Power Factorization: 34%	172/500 [00:22<00:44,	7.42it/s]
Power Factorization: 35%	173/500 [00:23<00:43,	7.43it/s]
Power Factorization: 35%	174/500 [00:23<00:43,	7.42it/s]
Power Factorization: 35%	175/500 [00:23<00:43,	7.44it/s]
Power Factorization: 35%	176/500 [00:23<00:43,	7.45it/s]
Power Factorization: 35%	177/500 [00:23<00:43,	7.44it/s]
Power Factorization: 36%	178/500 [00:23<00:43,	7.44it/s]
Power Factorization: 36%	179/500 [00:23<00:43,	7.46it/s]
Power Factorization: 36%	180/500 [00:24<00:42,	7.49it/s]
Power Factorization: 36%	181/500 [00:24<00:42,	7.50it/s]
Power Factorization: 36%	182/500 [00:24<00:42,	7.52it/s]
Power Factorization: 37%	183/500 [00:24<00:42,	7.54it/s]
Power Factorization: 37%	184/500 [00:24<00:41,	7.54it/s]
Power Factorization: 37%	185/500 [00:24<00:41,	7.53it/s]
Power Factorization: 37%	186/500 [00:24<00:41,	7.51it/s]
Power Factorization: 37%	187/500 [00:24<00:41,	7.48it/s]
Power Factorization: 38%	188/500 [00:25<00:41,	7.50it/s]
Power Factorization: 38%	189/500 [00:25<00:41,	7.49it/s]
Power Factorization: 38%	190/500 [00:25<00:41,	7.53it/s]
Power Factorization: 38%	191/500 [00:25<00:41,	7.50it/s]

Power Factorization: 38%	192/500 [00:25<00:41, 7.51it/s]
Power Factorization: 39%	193/500 [00:25<00:40, 7.53it/s]
Power Factorization: 39%	194/500 [00:25<00:40, 7.54it/s]
Power Factorization: 39%	195/500 [00:26<00:40, 7.51it/s]
Power Factorization: 39%	196/500 [00:26<00:40, 7.52it/s]
Power Factorization: 39%	197/500 [00:26<00:40, 7.52it/s]
Power Factorization: 40%	198/500 [00:26<00:40, 7.54it/s]
Power Factorization: 40%	199/500 [00:26<00:39, 7.54it/s]
Power Factorization: 40%	200/500 [00:26<00:39, 7.55it/s]
Power Factorization: 40%	201/500 [00:26<00:39, 7.54it/s]
Power Factorization: 40%	202/500 [00:26<00:39, 7.56it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.56it/s]
Power Factorization: 41%	204/500 [00:27<00:39, 7.56it/s]
Power Factorization: 41%	205/500 [00:27<00:39, 7.52it/s]
Power Factorization: 41%	206/500 [00:27<00:39, 7.50it/s]
Power Factorization: 41%	207/500 [00:27<00:39, 7.46it/s]
Power Factorization: 42%	208/500 [00:27<00:39, 7.44it/s]
Power Factorization: 42%	209/500 [00:27<00:39, 7.43it/s]
Power Factorization: 42%	210/500 [00:28<00:39, 7.41it/s]
Power Factorization: 42%	211/500 [00:28<00:39, 7.36it/s]
Power Factorization: 42%	212/500 [00:28<00:38, 7.40it/s]
Power Factorization: 43%	213/500 [00:28<00:38, 7.43it/s]
Power Factorization: 43%	214/500 [00:28<00:38, 7.46it/s]
Power Factorization: 43%	215/500 [00:28<00:38, 7.46it/s]

Power Factorization: 43%	216/500 [00:28<00:37, 7.49it/s]
Power Factorization: 43%	217/500 [00:28<00:37, 7.49it/s]
Power Factorization: 44%	218/500 [00:29<00:37, 7.51it/s]
Power Factorization: 44%	219/500 [00:29<00:37, 7.52it/s]
Power Factorization: 44%	220/500 [00:29<00:37, 7.51it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.47it/s]
Power Factorization: 44%	222/500 [00:29<00:37, 7.44it/s]
Power Factorization: 45%	223/500 [00:29<00:37, 7.42it/s]
Power Factorization: 45%	224/500 [00:29<00:37, 7.43it/s]
Power Factorization: 45%	225/500 [00:30<00:36, 7.45it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.47it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.48it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.47it/s]
Power Factorization: 46%	229/500 [00:30<00:36, 7.43it/s]
Power Factorization: 46%	230/500 [00:30<00:36, 7.43it/s]
Power Factorization: 46%	231/500 [00:30<00:36, 7.39it/s]
Power Factorization: 46%	232/500 [00:30<00:36, 7.37it/s]
Power Factorization: 47%	233/500 [00:31<00:36, 7.38it/s]
Power Factorization: 47%	234/500 [00:31<00:36, 7.36it/s]
Power Factorization: 47%	235/500 [00:31<00:36, 7.34it/s]
Power Factorization: 47%	236/500 [00:31<00:36, 7.32it/s]
Power Factorization: 47%	237/500 [00:31<00:35, 7.31it/s]
Power Factorization: 48%	238/500 [00:31<00:35, 7.32it/s]
Power Factorization: 48%	239/500 [00:31<00:35, 7.29it/s]

Power Factorization: 48%	240/500 [00:32<00:35, 7.34it/s]
Power Factorization: 48%	241/500 [00:32<00:35, 7.38it/s]
Power Factorization: 48%	242/500 [00:32<00:34, 7.38it/s]
Power Factorization: 49%	243/500 [00:32<00:34, 7.36it/s]
Power Factorization: 49%	244/500 [00:32<00:34, 7.40it/s]
Power Factorization: 49%	245/500 [00:32<00:34, 7.41it/s]
Power Factorization: 49%	246/500 [00:32<00:34, 7.41it/s]
Power Factorization: 49%	247/500 [00:33<00:34, 7.39it/s]
Power Factorization: 50%	248/500 [00:33<00:34, 7.38it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.38it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.41it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.44it/s]
Power Factorization: 50%	252/500 [00:33<00:33, 7.45it/s]
Power Factorization: 51%	253/500 [00:33<00:33, 7.45it/s]
Power Factorization: 51%	254/500 [00:33<00:32, 7.47it/s]
Power Factorization: 51%	255/500 [00:34<00:33, 7.42it/s]
Power Factorization: 51%	256/500 [00:34<00:33, 7.39it/s]
Power Factorization: 51%	257/500 [00:34<00:32, 7.40it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.44it/s]
Power Factorization: 52%	259/500 [00:34<00:32, 7.47it/s]
Power Factorization: 52%	260/500 [00:34<00:32, 7.47it/s]
Power Factorization: 52%	261/500 [00:34<00:31, 7.47it/s]
Power Factorization: 52%	262/500 [00:35<00:31, 7.50it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.51it/s]

Power Factorization: 53%	264/500 [00:35<00:31, 7.51it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.51it/s]
Power Factorization: 53%	266/500 [00:35<00:31, 7.51it/s]
Power Factorization: 53%	267/500 [00:35<00:31, 7.49it/s]
Power Factorization: 54%	268/500 [00:35<00:30, 7.50it/s]
Power Factorization: 54%	269/500 [00:35<00:30, 7.50it/s]
Power Factorization: 54%	270/500 [00:36<00:30, 7.51it/s]
Power Factorization: 54%	271/500 [00:36<00:30, 7.50it/s]
Power Factorization: 54%	272/500 [00:36<00:30, 7.45it/s]
Power Factorization: 55%	273/500 [00:36<00:30, 7.42it/s]
Power Factorization: 55%	274/500 [00:36<00:30, 7.44it/s]
Power Factorization: 55%	275/500 [00:36<00:30, 7.43it/s]
Power Factorization: 55%	276/500 [00:36<00:30, 7.44it/s]
Power Factorization: 55%	277/500 [00:37<00:29, 7.45it/s]
Power Factorization: 56%	278/500 [00:37<00:29, 7.46it/s]
Power Factorization: 56%	279/500 [00:37<00:29, 7.47it/s]
Power Factorization: 56%	280/500 [00:37<00:29, 7.47it/s]
Power Factorization: 56%	281/500 [00:37<00:29, 7.47it/s]
Power Factorization: 56%	282/500 [00:37<00:29, 7.46it/s]
Power Factorization: 57%	283/500 [00:37<00:29, 7.46it/s]
Power Factorization: 57%	284/500 [00:37<00:28, 7.46it/s]
Power Factorization: 57%	285/500 [00:38<00:28, 7.44it/s]
Power Factorization: 57%	286/500 [00:38<00:28, 7.45it/s]
Power Factorization: 57%	287/500 [00:38<00:28, 7.45it/s]

Power Factorization: 58%	288/500 [00:38<00:28, 7.47it/s]
Power Factorization: 58%	289/500 [00:38<00:28, 7.46it/s]
Power Factorization: 58%	290/500 [00:38<00:28, 7.44it/s]
Power Factorization: 58%	291/500 [00:38<00:27, 7.47it/s]
Power Factorization: 58%	292/500 [00:39<00:27, 7.48it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.48it/s]
Power Factorization: 59%	294/500 [00:39<00:27, 7.50it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.38it/s]
Power Factorization: 59%	296/500 [00:39<00:27, 7.41it/s]
Power Factorization: 59%	297/500 [00:39<00:27, 7.41it/s]
Power Factorization: 60%	298/500 [00:39<00:27, 7.43it/s]
Power Factorization: 60%	299/500 [00:39<00:26, 7.46it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.49it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.49it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.49it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.47it/s]
Power Factorization: 61%	304/500 [00:40<00:26, 7.48it/s]
Power Factorization: 61%	305/500 [00:40<00:26, 7.46it/s]
Power Factorization: 61%	306/500 [00:40<00:25, 7.48it/s]
Power Factorization: 61%	307/500 [00:41<00:25, 7.45it/s]
Power Factorization: 62%	308/500 [00:41<00:25, 7.45it/s]
Power Factorization: 62%	309/500 [00:41<00:25, 7.45it/s]
Power Factorization: 62%	310/500 [00:41<00:25, 7.41it/s]
Power Factorization: 62%	311/500 [00:41<00:25, 7.41it/s]

Power Factorization: 62%	312/500 [00:41<00:26, 7.21it/s]
Power Factorization: 63%	313/500 [00:41<00:26, 6.97it/s]
Power Factorization: 63%	314/500 [00:42<00:26, 7.15it/s]
Power Factorization: 63%	315/500 [00:42<00:25, 7.22it/s]
Power Factorization: 63%	316/500 [00:42<00:25, 7.27it/s]
Power Factorization: 63%	317/500 [00:42<00:25, 7.31it/s]
Power Factorization: 64%	318/500 [00:42<00:24, 7.35it/s]
Power Factorization: 64%	319/500 [00:42<00:24, 7.35it/s]
Power Factorization: 64%	320/500 [00:42<00:24, 7.34it/s]
Power Factorization: 64%	321/500 [00:42<00:24, 7.36it/s]
Power Factorization: 64%	322/500 [00:43<00:24, 7.41it/s]
Power Factorization: 65%	323/500 [00:43<00:23, 7.39it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.43it/s]
Power Factorization: 65%	325/500 [00:43<00:23, 7.42it/s]
Power Factorization: 65%	326/500 [00:43<00:23, 7.41it/s]
Power Factorization: 65%	327/500 [00:43<00:23, 7.41it/s]
Power Factorization: 66%	328/500 [00:43<00:23, 7.43it/s]
Power Factorization: 66%	329/500 [00:44<00:23, 7.43it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.42it/s]
Power Factorization: 66%	331/500 [00:44<00:22, 7.40it/s]
Power Factorization: 66%	332/500 [00:44<00:22, 7.40it/s]
Power Factorization: 67%	333/500 [00:44<00:22, 7.39it/s]
Power Factorization: 67%	334/500 [00:44<00:22, 7.41it/s]
Power Factorization: 67%	335/500 [00:44<00:22, 7.44it/s]

Power Factorization: 67%	336/500 [00:45<00:22, 7.36it/s]
Power Factorization: 67%	337/500 [00:45<00:22, 7.38it/s]
Power Factorization: 68%	338/500 [00:45<00:21, 7.41it/s]
Power Factorization: 68%	339/500 [00:45<00:21, 7.44it/s]
Power Factorization: 68%	340/500 [00:45<00:21, 7.48it/s]
Power Factorization: 68%	341/500 [00:45<00:21, 7.48it/s]
Power Factorization: 68%	342/500 [00:45<00:21, 7.44it/s]
Power Factorization: 69%	343/500 [00:45<00:21, 7.44it/s]
Power Factorization: 69%	344/500 [00:46<00:20, 7.45it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.46it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.49it/s]
Power Factorization: 69%	347/500 [00:46<00:20, 7.51it/s]
Power Factorization: 70%	348/500 [00:46<00:20, 7.52it/s]
Power Factorization: 70%	349/500 [00:46<00:20, 7.51it/s]
Power Factorization: 70%	350/500 [00:46<00:19, 7.50it/s]
Power Factorization: 70%	351/500 [00:47<00:19, 7.51it/s]
Power Factorization: 70%	352/500 [00:47<00:19, 7.52it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.53it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.55it/s]
Power Factorization: 71%	355/500 [00:47<00:19, 7.53it/s]
Power Factorization: 71%	356/500 [00:47<00:19, 7.54it/s]
Power Factorization: 71%	357/500 [00:47<00:19, 7.52it/s]
Power Factorization: 72%	358/500 [00:47<00:18, 7.53it/s]
Power Factorization: 72%	359/500 [00:48<00:18, 7.50it/s]

Power Factorization: 72%	360/500 [00:48<00:18, 7.45it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.45it/s]
Power Factorization: 72%	362/500 [00:48<00:18, 7.48it/s]
Power Factorization: 73%	363/500 [00:48<00:18, 7.48it/s]
Power Factorization: 73%	364/500 [00:48<00:18, 7.51it/s]
Power Factorization: 73%	365/500 [00:48<00:17, 7.50it/s]
Power Factorization: 73%	366/500 [00:48<00:17, 7.53it/s]
Power Factorization: 73%	367/500 [00:49<00:17, 7.53it/s]
Power Factorization: 74%	368/500 [00:49<00:17, 7.54it/s]
Power Factorization: 74%	369/500 [00:49<00:17, 7.51it/s]
Power Factorization: 74%	370/500 [00:49<00:17, 7.52it/s]
Power Factorization: 74%	371/500 [00:49<00:17, 7.53it/s]
Power Factorization: 74%	372/500 [00:49<00:16, 7.53it/s]
Power Factorization: 75%	373/500 [00:49<00:16, 7.53it/s]
Power Factorization: 75%	374/500 [00:50<00:16, 7.53it/s]
Power Factorization: 75%	375/500 [00:50<00:16, 7.52it/s]
Power Factorization: 75%	376/500 [00:50<00:16, 7.53it/s]
Power Factorization: 75%	377/500 [00:50<00:16, 7.53it/s]
Power Factorization: 76%	378/500 [00:50<00:16, 7.53it/s]
Power Factorization: 76%	379/500 [00:50<00:16, 7.53it/s]
Power Factorization: 76%	380/500 [00:50<00:15, 7.51it/s]
Power Factorization: 76%	381/500 [00:50<00:15, 7.51it/s]
Power Factorization: 76%	382/500 [00:51<00:15, 7.51it/s]
Power Factorization: 77%	383/500 [00:51<00:15, 7.49it/s]

Power Factorization: 77%	384/500 [00:51<00:15, 7.49it/s]
Power Factorization: 77%	385/500 [00:51<00:15, 7.47it/s]
Power Factorization: 77%	386/500 [00:51<00:15, 7.48it/s]
Power Factorization: 77%	387/500 [00:51<00:15, 7.47it/s]
Power Factorization: 78%	388/500 [00:51<00:14, 7.49it/s]
Power Factorization: 78%	389/500 [00:52<00:14, 7.50it/s]
Power Factorization: 78%	390/500 [00:52<00:14, 7.54it/s]
Power Factorization: 78%	391/500 [00:52<00:14, 7.51it/s]
Power Factorization: 78%	392/500 [00:52<00:14, 7.52it/s]
Power Factorization: 79%	393/500 [00:52<00:14, 7.52it/s]
Power Factorization: 79%	394/500 [00:52<00:14, 7.54it/s]
Power Factorization: 79%	395/500 [00:52<00:14, 7.49it/s]
Power Factorization: 79%	396/500 [00:52<00:13, 7.48it/s]
Power Factorization: 79%	397/500 [00:53<00:13, 7.49it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.51it/s]
Power Factorization: 80%	399/500 [00:53<00:13, 7.50it/s]
Power Factorization: 80%	400/500 [00:53<00:13, 7.51it/s]
Power Factorization: 80%	401/500 [00:53<00:13, 7.51it/s]
Power Factorization: 80%	402/500 [00:53<00:13, 7.53it/s]
Power Factorization: 81%	403/500 [00:53<00:12, 7.51it/s]
Power Factorization: 81%	404/500 [00:54<00:12, 7.53it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.52it/s]
Power Factorization: 81%	406/500 [00:54<00:12, 7.52it/s]
Power Factorization: 81%	407/500 [00:54<00:12, 7.52it/s]

Power Factorization: 82%	408/500 [00:54<00:12,	7.53it/s]
Power Factorization: 82%	409/500 [00:54<00:12,	7.53it/s]
Power Factorization: 82%	410/500 [00:54<00:11,	7.53it/s]
Power Factorization: 82%	411/500 [00:54<00:11,	7.52it/s]
Power Factorization: 82%	412/500 [00:55<00:11,	7.52it/s]
Power Factorization: 83%	413/500 [00:55<00:11,	7.54it/s]
Power Factorization: 83%	414/500 [00:55<00:11,	7.53it/s]
Power Factorization: 83%	415/500 [00:55<00:11,	7.48it/s]
Power Factorization: 83%	416/500 [00:55<00:11,	7.49it/s]
Power Factorization: 83%	417/500 [00:55<00:11,	7.51it/s]
Power Factorization: 84%	418/500 [00:55<00:10,	7.52it/s]
Power Factorization: 84%	419/500 [00:56<00:10,	7.51it/s]
Power Factorization: 84%	420/500 [00:56<00:10,	7.53it/s]
Power Factorization: 84%	421/500 [00:56<00:10,	7.53it/s]
Power Factorization: 84%	422/500 [00:56<00:10,	7.54it/s]
Power Factorization: 85%	423/500 [00:56<00:10,	7.51it/s]
Power Factorization: 85%	424/500 [00:56<00:10,	7.50it/s]
Power Factorization: 85%	425/500 [00:56<00:09,	7.50it/s]
Power Factorization: 85%	426/500 [00:56<00:09,	7.50it/s]
Power Factorization: 85%	427/500 [00:57<00:09,	7.51it/s]
Power Factorization: 86%	428/500 [00:57<00:09,	7.52it/s]
Power Factorization: 86%	429/500 [00:57<00:09,	7.51it/s]
Power Factorization: 86%	430/500 [00:57<00:09,	7.53it/s]
Power Factorization: 86%	431/500 [00:57<00:09,	7.49it/s]

Power Factorization: 86%	432/500 [00:57<00:09, 7.40it/s]
Power Factorization: 87%	433/500 [00:57<00:09, 7.14it/s]
Power Factorization: 87%	434/500 [00:58<00:09, 7.17it/s]
Power Factorization: 87%	435/500 [00:58<00:09, 7.19it/s]
Power Factorization: 87%	436/500 [00:58<00:08, 7.28it/s]
Power Factorization: 87%	437/500 [00:58<00:08, 7.34it/s]
Power Factorization: 88%	438/500 [00:58<00:08, 7.40it/s]
Power Factorization: 88%	439/500 [00:58<00:08, 7.44it/s]
Power Factorization: 88%	440/500 [00:58<00:08, 7.44it/s]
Power Factorization: 88%	441/500 [00:59<00:07, 7.45it/s]
Power Factorization: 88%	442/500 [00:59<00:07, 7.39it/s]
Power Factorization: 89%	443/500 [00:59<00:07, 7.36it/s]
Power Factorization: 89%	444/500 [00:59<00:07, 7.37it/s]
Power Factorization: 89%	445/500 [00:59<00:07, 7.35it/s]
Power Factorization: 89%	446/500 [00:59<00:07, 7.40it/s]
Power Factorization: 89%	447/500 [00:59<00:07, 7.43it/s]
Power Factorization: 90%	448/500 [00:59<00:07, 7.40it/s]
Power Factorization: 90%	449/500 [01:00<00:06, 7.35it/s]
Power Factorization: 90%	450/500 [01:00<00:06, 7.37it/s]
Power Factorization: 90%	451/500 [01:00<00:06, 7.42it/s]
Power Factorization: 90%	452/500 [01:00<00:06, 7.44it/s]
Power Factorization: 91%	453/500 [01:00<00:06, 7.46it/s]
Power Factorization: 91%	454/500 [01:00<00:06, 7.50it/s]
Power Factorization: 91%	455/500 [01:00<00:05, 7.52it/s]

Power Factorization: 91%	456/500 [01:01<00:05, 7.54it/s]
Power Factorization: 91%	457/500 [01:01<00:05, 7.54it/s]
Power Factorization: 92%	458/500 [01:01<00:05, 7.52it/s]
Power Factorization: 92%	459/500 [01:01<00:05, 7.54it/s]
Power Factorization: 92%	460/500 [01:01<00:05, 7.56it/s]
Power Factorization: 92%	461/500 [01:01<00:05, 7.57it/s]
Power Factorization: 92%	462/500 [01:01<00:04, 7.60it/s]
Power Factorization: 93%	463/500 [01:01<00:04, 7.53it/s]
Power Factorization: 93%	464/500 [01:02<00:04, 7.52it/s]
Power Factorization: 93%	465/500 [01:02<00:04, 7.54it/s]
Power Factorization: 93%	466/500 [01:02<00:04, 7.57it/s]
Power Factorization: 93%	467/500 [01:02<00:04, 7.57it/s]
Power Factorization: 94%	468/500 [01:02<00:04, 7.57it/s]
Power Factorization: 94%	469/500 [01:02<00:04, 7.59it/s]
Power Factorization: 94%	470/500 [01:02<00:04, 6.85it/s]
Power Factorization: 94%	471/500 [01:03<00:04, 6.89it/s]
Power Factorization: 94%	472/500 [01:03<00:04, 6.48it/s]
Power Factorization: 95%	473/500 [01:03<00:04, 6.54it/s]
Power Factorization: 95%	474/500 [01:03<00:04, 6.37it/s]
Power Factorization: 95%	475/500 [01:03<00:03, 6.60it/s]
Power Factorization: 95%	476/500 [01:03<00:03, 6.65it/s]
Power Factorization: 95%	477/500 [01:03<00:03, 6.81it/s]
Power Factorization: 96%	478/500 [01:04<00:03, 6.55it/s]
Power Factorization: 96%	479/500 [01:04<00:03, 6.72it/s]

Power Factorization: 96%	480/500 [01:04<00:02, 6.87it/s]
Power Factorization: 96%	481/500 [01:04<00:02, 7.06it/s]
Power Factorization: 96%	482/500 [01:04<00:02, 7.21it/s]
Power Factorization: 97%	483/500 [01:04<00:02, 7.31it/s]
Power Factorization: 97%	484/500 [01:04<00:02, 7.35it/s]
Power Factorization: 97%	485/500 [01:05<00:02, 7.37it/s]
Power Factorization: 97%	486/500 [01:05<00:01, 7.43it/s]
Power Factorization: 97%	487/500 [01:05<00:01, 7.49it/s]
Power Factorization: 98%	488/500 [01:05<00:01, 7.51it/s]
Power Factorization: 98%	489/500 [01:05<00:01, 7.55it/s]
Power Factorization: 98%	490/500 [01:05<00:01, 7.56it/s]
Power Factorization: 98%	491/500 [01:05<00:01, 7.57it/s]
Power Factorization: 98%	492/500 [01:06<00:01, 7.54it/s]
Power Factorization: 99%	493/500 [01:06<00:00, 7.55it/s]
Power Factorization: 99%	494/500 [01:06<00:00, 7.54it/s]
Power Factorization: 99%	495/500 [01:06<00:00, 7.51it/s]
Power Factorization: 99%	496/500 [01:06<00:00, 7.49it/s]
Power Factorization: 99%	497/500 [01:06<00:00, 7.50it/s]
Power Factorization: 100%	498/500 [01:06<00:00, 7.48it/s]
Power Factorization: 100%	499/500 [01:06<00:00, 7.44it/s]
Power Factorization: 100%	500/500 [01:07<00:00, 7.45it/s]
Cross Validation: 20%	1/5 [01:07<04:28, 67.13s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:06, 7.48it/s]

Power Factorization:	0%	2/500	[00:00<01:07, 7.38it/s]
Power Factorization:	1%	3/500	[00:00<01:07, 7.36it/s]
Power Factorization:	1%	4/500	[00:00<01:07, 7.34it/s]
Power Factorization:	1%	5/500	[00:00<01:07, 7.38it/s]
Power Factorization:	1%	6/500	[00:00<01:06, 7.38it/s]
Power Factorization:	1%	7/500	[00:00<01:07, 7.36it/s]
Power Factorization:	2%	8/500	[00:01<01:07, 7.34it/s]
Power Factorization:	2%	9/500	[00:01<01:06, 7.39it/s]
Power Factorization:	2%	10/500	[00:01<01:06, 7.39it/s]
Power Factorization:	2%	11/500	[00:01<01:06, 7.40it/s]
Power Factorization:	2%	12/500	[00:01<01:05, 7.44it/s]
Power Factorization:	3%	13/500	[00:01<01:05, 7.44it/s]
Power Factorization:	3%	14/500	[00:01<01:05, 7.40it/s]
Power Factorization:	3%	15/500	[00:02<01:05, 7.36it/s]
Power Factorization:	3%	16/500	[00:02<01:05, 7.34it/s]
Power Factorization:	3%	17/500	[00:02<01:06, 7.31it/s]
Power Factorization:	4%	18/500	[00:02<01:05, 7.32it/s]
Power Factorization:	4%	19/500	[00:02<01:05, 7.33it/s]
Power Factorization:	4%	20/500	[00:02<01:05, 7.34it/s]
Power Factorization:	4%	21/500	[00:02<01:05, 7.34it/s]
Power Factorization:	4%	22/500	[00:02<01:05, 7.28it/s]
Power Factorization:	5%	23/500	[00:03<01:05, 7.29it/s]
Power Factorization:	5%	24/500	[00:03<01:05, 7.30it/s]
Power Factorization:	5%	25/500	[00:03<01:04, 7.31it/s]

Power Factorization:	5%	26/500	[00:03<01:04,	7.34it/s]
Power Factorization:	5%	27/500	[00:03<01:04,	7.36it/s]
Power Factorization:	6%	28/500	[00:03<01:03,	7.38it/s]
Power Factorization:	6%	29/500	[00:03<01:03,	7.41it/s]
Power Factorization:	6%	30/500	[00:04<01:03,	7.45it/s]
Power Factorization:	6%	31/500	[00:04<01:03,	7.43it/s]
Power Factorization:	6%	32/500	[00:04<01:03,	7.38it/s]
Power Factorization:	7%	33/500	[00:04<01:03,	7.38it/s]
Power Factorization:	7%	34/500	[00:04<01:03,	7.33it/s]
Power Factorization:	7%	35/500	[00:04<01:03,	7.36it/s]
Power Factorization:	7%	36/500	[00:04<01:03,	7.36it/s]
Power Factorization:	7%	37/500	[00:05<01:02,	7.37it/s]
Power Factorization:	8%	38/500	[00:05<01:02,	7.36it/s]
Power Factorization:	8%	39/500	[00:05<01:02,	7.36it/s]
Power Factorization:	8%	40/500	[00:05<01:02,	7.33it/s]
Power Factorization:	8%	41/500	[00:05<01:02,	7.38it/s]
Power Factorization:	8%	42/500	[00:05<01:02,	7.34it/s]
Power Factorization:	9%	43/500	[00:05<01:01,	7.37it/s]
Power Factorization:	9%	44/500	[00:05<01:01,	7.38it/s]
Power Factorization:	9%	45/500	[00:06<01:01,	7.40it/s]
Power Factorization:	9%	46/500	[00:06<01:01,	7.40it/s]
Power Factorization:	9%	47/500	[00:06<01:01,	7.35it/s]
Power Factorization:	10%	48/500	[00:06<01:01,	7.34it/s]
Power Factorization:	10%	49/500	[00:06<01:01,	7.36it/s]

Power Factorization: 10%	50/500 [00:06<01:00, 7.38it/s]
Power Factorization: 10%	51/500 [00:06<01:00, 7.42it/s]
Power Factorization: 10%	52/500 [00:07<01:00, 7.35it/s]
Power Factorization: 11%	53/500 [00:07<01:00, 7.38it/s]
Power Factorization: 11%	54/500 [00:07<01:00, 7.38it/s]
Power Factorization: 11%	55/500 [00:07<01:00, 7.37it/s]
Power Factorization: 11%	56/500 [00:07<01:00, 7.34it/s]
Power Factorization: 11%	57/500 [00:07<01:00, 7.33it/s]
Power Factorization: 12%	58/500 [00:07<01:00, 7.32it/s]
Power Factorization: 12%	59/500 [00:08<01:00, 7.33it/s]
Power Factorization: 12%	60/500 [00:08<00:59, 7.36it/s]
Power Factorization: 12%	61/500 [00:08<00:59, 7.35it/s]
Power Factorization: 12%	62/500 [00:08<00:59, 7.33it/s]
Power Factorization: 13%	63/500 [00:08<00:59, 7.39it/s]
Power Factorization: 13%	64/500 [00:08<00:59, 7.37it/s]
Power Factorization: 13%	65/500 [00:08<00:58, 7.42it/s]
Power Factorization: 13%	66/500 [00:08<00:58, 7.44it/s]
Power Factorization: 13%	67/500 [00:09<00:57, 7.48it/s]
Power Factorization: 14%	68/500 [00:09<00:57, 7.50it/s]
Power Factorization: 14%	69/500 [00:09<00:57, 7.52it/s]
Power Factorization: 14%	70/500 [00:09<00:57, 7.50it/s]
Power Factorization: 14%	71/500 [00:09<00:56, 7.54it/s]
Power Factorization: 14%	72/500 [00:09<00:56, 7.58it/s]
Power Factorization: 15%	73/500 [00:09<00:56, 7.55it/s]

Power Factorization: 15%	74/500 [00:10<00:56, 7.56it/s]
Power Factorization: 15%	75/500 [00:10<00:56, 7.58it/s]
Power Factorization: 15%	76/500 [00:10<00:55, 7.58it/s]
Power Factorization: 15%	77/500 [00:10<00:55, 7.58it/s]
Power Factorization: 16%	78/500 [00:10<00:55, 7.58it/s]
Power Factorization: 16%	79/500 [00:10<00:55, 7.58it/s]
Power Factorization: 16%	80/500 [00:10<00:55, 7.53it/s]
Power Factorization: 16%	81/500 [00:10<00:56, 7.47it/s]
Power Factorization: 16%	82/500 [00:11<00:56, 7.44it/s]
Power Factorization: 17%	83/500 [00:11<00:56, 7.37it/s]
Power Factorization: 17%	84/500 [00:11<00:56, 7.40it/s]
Power Factorization: 17%	85/500 [00:11<00:56, 7.40it/s]
Power Factorization: 17%	86/500 [00:11<00:55, 7.41it/s]
Power Factorization: 17%	87/500 [00:11<00:55, 7.43it/s]
Power Factorization: 18%	88/500 [00:11<00:55, 7.44it/s]
Power Factorization: 18%	89/500 [00:12<00:55, 7.44it/s]
Power Factorization: 18%	90/500 [00:12<00:55, 7.43it/s]
Power Factorization: 18%	91/500 [00:12<00:54, 7.44it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.42it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.43it/s]
Power Factorization: 19%	94/500 [00:12<00:54, 7.45it/s]
Power Factorization: 19%	95/500 [00:12<00:54, 7.44it/s]
Power Factorization: 19%	96/500 [00:12<00:54, 7.44it/s]
Power Factorization: 19%	97/500 [00:13<00:54, 7.42it/s]

Power Factorization: 20%	98/500 [00:13<00:54, 7.42it/s]
Power Factorization: 20%	99/500 [00:13<00:54, 7.38it/s]
Power Factorization: 20%	100/500 [00:13<00:54, 7.36it/s]
Power Factorization: 20%	101/500 [00:13<00:53, 7.39it/s]
Power Factorization: 20%	102/500 [00:13<00:53, 7.42it/s]
Power Factorization: 21%	103/500 [00:13<00:53, 7.37it/s]
Power Factorization: 21%	104/500 [00:14<00:53, 7.39it/s]
Power Factorization: 21%	105/500 [00:14<00:53, 7.37it/s]
Power Factorization: 21%	106/500 [00:14<00:53, 7.36it/s]
Power Factorization: 21%	107/500 [00:14<00:53, 7.35it/s]
Power Factorization: 22%	108/500 [00:14<00:53, 7.37it/s]
Power Factorization: 22%	109/500 [00:14<00:52, 7.42it/s]
Power Factorization: 22%	110/500 [00:14<00:52, 7.44it/s]
Power Factorization: 22%	111/500 [00:14<00:52, 7.47it/s]
Power Factorization: 22%	112/500 [00:15<00:51, 7.53it/s]
Power Factorization: 23%	113/500 [00:15<00:51, 7.53it/s]
Power Factorization: 23%	114/500 [00:15<00:51, 7.52it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.44it/s]
Power Factorization: 23%	116/500 [00:15<00:51, 7.44it/s]
Power Factorization: 23%	117/500 [00:15<00:51, 7.43it/s]
Power Factorization: 24%	118/500 [00:15<00:51, 7.43it/s]
Power Factorization: 24%	119/500 [00:16<00:51, 7.43it/s]
Power Factorization: 24%	120/500 [00:16<00:51, 7.43it/s]
Power Factorization: 24%	121/500 [00:16<00:51, 7.42it/s]

Power Factorization: 24%	122/500 [00:16<00:51, 7.41it/s]
Power Factorization: 25%	123/500 [00:16<00:51, 7.39it/s]
Power Factorization: 25%	124/500 [00:16<00:50, 7.38it/s]
Power Factorization: 25%	125/500 [00:16<00:51, 7.35it/s]
Power Factorization: 25%	126/500 [00:17<00:50, 7.34it/s]
Power Factorization: 25%	127/500 [00:17<00:50, 7.34it/s]
Power Factorization: 26%	128/500 [00:17<00:50, 7.39it/s]
Power Factorization: 26%	129/500 [00:17<00:50, 7.36it/s]
Power Factorization: 26%	130/500 [00:17<00:50, 7.38it/s]
Power Factorization: 26%	131/500 [00:17<00:49, 7.39it/s]
Power Factorization: 26%	132/500 [00:17<00:49, 7.41it/s]
Power Factorization: 27%	133/500 [00:17<00:49, 7.45it/s]
Power Factorization: 27%	134/500 [00:18<00:48, 7.47it/s]
Power Factorization: 27%	135/500 [00:18<00:48, 7.48it/s]
Power Factorization: 27%	136/500 [00:18<00:48, 7.51it/s]
Power Factorization: 27%	137/500 [00:18<00:48, 7.51it/s]
Power Factorization: 28%	138/500 [00:18<00:48, 7.53it/s]
Power Factorization: 28%	139/500 [00:18<00:47, 7.54it/s]
Power Factorization: 28%	140/500 [00:18<00:47, 7.54it/s]
Power Factorization: 28%	141/500 [00:19<00:47, 7.53it/s]
Power Factorization: 28%	142/500 [00:19<00:47, 7.52it/s]
Power Factorization: 29%	143/500 [00:19<00:47, 7.53it/s]
Power Factorization: 29%	144/500 [00:19<00:47, 7.54it/s]
Power Factorization: 29%	145/500 [00:19<00:47, 7.55it/s]

Power Factorization: 29%	146/500 [00:19<00:46, 7.54it/s]
Power Factorization: 29%	147/500 [00:19<00:46, 7.55it/s]
Power Factorization: 30%	148/500 [00:19<00:46, 7.53it/s]
Power Factorization: 30%	149/500 [00:20<00:46, 7.48it/s]
Power Factorization: 30%	150/500 [00:20<00:46, 7.49it/s]
Power Factorization: 30%	151/500 [00:20<00:46, 7.51it/s]
Power Factorization: 30%	152/500 [00:20<00:46, 7.49it/s]
Power Factorization: 31%	153/500 [00:20<00:46, 7.50it/s]
Power Factorization: 31%	154/500 [00:20<00:46, 7.52it/s]
Power Factorization: 31%	155/500 [00:20<00:45, 7.51it/s]
Power Factorization: 31%	156/500 [00:21<00:45, 7.48it/s]
Power Factorization: 31%	157/500 [00:21<00:45, 7.48it/s]
Power Factorization: 32%	158/500 [00:21<00:45, 7.44it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.47it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.50it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.52it/s]
Power Factorization: 32%	162/500 [00:21<00:44, 7.53it/s]
Power Factorization: 33%	163/500 [00:21<00:44, 7.55it/s]
Power Factorization: 33%	164/500 [00:22<00:44, 7.55it/s]
Power Factorization: 33%	165/500 [00:22<00:44, 7.55it/s]
Power Factorization: 33%	166/500 [00:22<00:44, 7.55it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.54it/s]
Power Factorization: 34%	168/500 [00:22<00:44, 7.54it/s]
Power Factorization: 34%	169/500 [00:22<00:43, 7.54it/s]

Power Factorization: 34%	170/500 [00:22<00:43, 7.56it/s]
Power Factorization: 34%	171/500 [00:23<00:43, 7.54it/s]
Power Factorization: 34%	172/500 [00:23<00:43, 7.53it/s]
Power Factorization: 35%	173/500 [00:23<00:43, 7.52it/s]
Power Factorization: 35%	174/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	175/500 [00:23<00:43, 7.48it/s]
Power Factorization: 35%	176/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	177/500 [00:23<00:42, 7.53it/s]
Power Factorization: 36%	178/500 [00:23<00:42, 7.54it/s]
Power Factorization: 36%	179/500 [00:24<00:42, 7.53it/s]
Power Factorization: 36%	180/500 [00:24<00:42, 7.55it/s]
Power Factorization: 36%	181/500 [00:24<00:42, 7.53it/s]
Power Factorization: 36%	182/500 [00:24<00:42, 7.54it/s]
Power Factorization: 37%	183/500 [00:24<00:42, 7.53it/s]
Power Factorization: 37%	184/500 [00:24<00:41, 7.53it/s]
Power Factorization: 37%	185/500 [00:24<00:41, 7.53it/s]
Power Factorization: 37%	186/500 [00:25<00:41, 7.54it/s]
Power Factorization: 37%	187/500 [00:25<00:41, 7.54it/s]
Power Factorization: 38%	188/500 [00:25<00:41, 7.54it/s]
Power Factorization: 38%	189/500 [00:25<00:41, 7.54it/s]
Power Factorization: 38%	190/500 [00:25<00:41, 7.54it/s]
Power Factorization: 38%	191/500 [00:25<00:41, 7.52it/s]
Power Factorization: 38%	192/500 [00:25<00:40, 7.53it/s]
Power Factorization: 39%	193/500 [00:25<00:40, 7.52it/s]

Power Factorization: 39%	194/500 [00:26<00:40, 7.50it/s]
Power Factorization: 39%	195/500 [00:26<00:40, 7.50it/s]
Power Factorization: 39%	196/500 [00:26<00:40, 7.50it/s]
Power Factorization: 39%	197/500 [00:26<00:40, 7.51it/s]
Power Factorization: 40%	198/500 [00:26<00:40, 7.52it/s]
Power Factorization: 40%	199/500 [00:26<00:39, 7.53it/s]
Power Factorization: 40%	200/500 [00:26<00:39, 7.54it/s]
Power Factorization: 40%	201/500 [00:26<00:39, 7.55it/s]
Power Factorization: 40%	202/500 [00:27<00:39, 7.54it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.52it/s]
Power Factorization: 41%	204/500 [00:27<00:39, 7.53it/s]
Power Factorization: 41%	205/500 [00:27<00:39, 7.52it/s]
Power Factorization: 41%	206/500 [00:27<00:39, 7.51it/s]
Power Factorization: 41%	207/500 [00:27<00:39, 7.51it/s]
Power Factorization: 42%	208/500 [00:27<00:38, 7.52it/s]
Power Factorization: 42%	209/500 [00:28<00:38, 7.52it/s]
Power Factorization: 42%	210/500 [00:28<00:38, 7.55it/s]
Power Factorization: 42%	211/500 [00:28<00:38, 7.55it/s]
Power Factorization: 42%	212/500 [00:28<00:38, 7.55it/s]
Power Factorization: 43%	213/500 [00:28<00:38, 7.53it/s]
Power Factorization: 43%	214/500 [00:28<00:38, 7.52it/s]
Power Factorization: 43%	215/500 [00:28<00:37, 7.54it/s]
Power Factorization: 43%	216/500 [00:28<00:37, 7.54it/s]
Power Factorization: 43%	217/500 [00:29<00:37, 7.54it/s]

Power Factorization: 44%	218/500 [00:29<00:37, 7.55it/s]
Power Factorization: 44%	219/500 [00:29<00:37, 7.55it/s]
Power Factorization: 44%	220/500 [00:29<00:37, 7.55it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.53it/s]
Power Factorization: 44%	222/500 [00:29<00:36, 7.53it/s]
Power Factorization: 45%	223/500 [00:29<00:36, 7.54it/s]
Power Factorization: 45%	224/500 [00:30<00:36, 7.53it/s]
Power Factorization: 45%	225/500 [00:30<00:36, 7.53it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.52it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.53it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.53it/s]
Power Factorization: 46%	229/500 [00:30<00:35, 7.54it/s]
Power Factorization: 46%	230/500 [00:30<00:35, 7.54it/s]
Power Factorization: 46%	231/500 [00:30<00:35, 7.55it/s]
Power Factorization: 46%	232/500 [00:31<00:35, 7.54it/s]
Power Factorization: 47%	233/500 [00:31<00:35, 7.55it/s]
Power Factorization: 47%	234/500 [00:31<00:35, 7.56it/s]
Power Factorization: 47%	235/500 [00:31<00:35, 7.53it/s]
Power Factorization: 47%	236/500 [00:31<00:35, 7.50it/s]
Power Factorization: 47%	237/500 [00:31<00:35, 7.51it/s]
Power Factorization: 48%	238/500 [00:31<00:34, 7.52it/s]
Power Factorization: 48%	239/500 [00:32<00:34, 7.54it/s]
Power Factorization: 48%	240/500 [00:32<00:34, 7.54it/s]
Power Factorization: 48%	241/500 [00:32<00:34, 7.46it/s]

Power Factorization: 48%	242/500 [00:32<00:34, 7.48it/s]
Power Factorization: 49%	243/500 [00:32<00:34, 7.47it/s]
Power Factorization: 49%	244/500 [00:32<00:34, 7.49it/s]
Power Factorization: 49%	245/500 [00:32<00:34, 7.49it/s]
Power Factorization: 49%	246/500 [00:32<00:33, 7.50it/s]
Power Factorization: 49%	247/500 [00:33<00:33, 7.48it/s]
Power Factorization: 50%	248/500 [00:33<00:33, 7.49it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.50it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.54it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.36it/s]
Power Factorization: 50%	252/500 [00:33<00:38, 6.44it/s]
Power Factorization: 51%	253/500 [00:33<00:37, 6.61it/s]
Power Factorization: 51%	254/500 [00:34<00:35, 6.86it/s]
Power Factorization: 51%	255/500 [00:34<00:34, 7.05it/s]
Power Factorization: 51%	256/500 [00:34<00:33, 7.18it/s]
Power Factorization: 51%	257/500 [00:34<00:33, 7.28it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.34it/s]
Power Factorization: 52%	259/500 [00:34<00:32, 7.39it/s]
Power Factorization: 52%	260/500 [00:34<00:32, 7.44it/s]
Power Factorization: 52%	261/500 [00:35<00:31, 7.48it/s]
Power Factorization: 52%	262/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	264/500 [00:35<00:31, 7.46it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.48it/s]

Power Factorization: 53%	266/500	[00:35<00:31, 7.49it/s]
Power Factorization: 53%	267/500	[00:35<00:31, 7.48it/s]
Power Factorization: 54%	268/500	[00:35<00:30, 7.50it/s]
Power Factorization: 54%	269/500	[00:36<00:30, 7.48it/s]
Power Factorization: 54%	270/500	[00:36<00:30, 7.49it/s]
Power Factorization: 54%	271/500	[00:36<00:30, 7.48it/s]
Power Factorization: 54%	272/500	[00:36<00:30, 7.49it/s]
Power Factorization: 55%	273/500	[00:36<00:30, 7.48it/s]
Power Factorization: 55%	274/500	[00:36<00:30, 7.49it/s]
Power Factorization: 55%	275/500	[00:36<00:29, 7.50it/s]
Power Factorization: 55%	276/500	[00:37<00:29, 7.50it/s]
Power Factorization: 55%	277/500	[00:37<00:29, 7.51it/s]
Power Factorization: 56%	278/500	[00:37<00:29, 7.51it/s]
Power Factorization: 56%	279/500	[00:37<00:29, 7.51it/s]
Power Factorization: 56%	280/500	[00:37<00:29, 7.48it/s]
Power Factorization: 56%	281/500	[00:37<00:29, 7.49it/s]
Power Factorization: 56%	282/500	[00:37<00:29, 7.49it/s]
Power Factorization: 57%	283/500	[00:37<00:28, 7.51it/s]
Power Factorization: 57%	284/500	[00:38<00:28, 7.50it/s]
Power Factorization: 57%	285/500	[00:38<00:28, 7.50it/s]
Power Factorization: 57%	286/500	[00:38<00:28, 7.47it/s]
Power Factorization: 57%	287/500	[00:38<00:28, 7.49it/s]
Power Factorization: 58%	288/500	[00:38<00:28, 7.48it/s]
Power Factorization: 58%	289/500	[00:38<00:28, 7.47it/s]

Power Factorization: 58%	290/500 [00:38<00:28, 7.50it/s]
Power Factorization: 58%	291/500 [00:39<00:27, 7.50it/s]
Power Factorization: 58%	292/500 [00:39<00:27, 7.52it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.50it/s]
Power Factorization: 59%	294/500 [00:39<00:27, 7.48it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.45it/s]
Power Factorization: 59%	296/500 [00:39<00:27, 7.45it/s]
Power Factorization: 59%	297/500 [00:39<00:27, 7.47it/s]
Power Factorization: 60%	298/500 [00:40<00:27, 7.48it/s]
Power Factorization: 60%	299/500 [00:40<00:26, 7.48it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.48it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.47it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.47it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.46it/s]
Power Factorization: 61%	304/500 [00:40<00:26, 7.49it/s]
Power Factorization: 61%	305/500 [00:40<00:25, 7.50it/s]
Power Factorization: 61%	306/500 [00:41<00:26, 7.42it/s]
Power Factorization: 61%	307/500 [00:41<00:25, 7.43it/s]
Power Factorization: 62%	308/500 [00:41<00:25, 7.46it/s]
Power Factorization: 62%	309/500 [00:41<00:25, 7.50it/s]
Power Factorization: 62%	310/500 [00:41<00:25, 7.50it/s]
Power Factorization: 62%	311/500 [00:41<00:25, 7.50it/s]
Power Factorization: 62%	312/500 [00:41<00:25, 7.51it/s]
Power Factorization: 63%	313/500 [00:42<00:24, 7.50it/s]

Power Factorization: 63%	314/500 [00:42<00:24, 7.51it/s]
Power Factorization: 63%	315/500 [00:42<00:24, 7.52it/s]
Power Factorization: 63%	316/500 [00:42<00:24, 7.53it/s]
Power Factorization: 63%	317/500 [00:42<00:24, 7.54it/s]
Power Factorization: 64%	318/500 [00:42<00:24, 7.52it/s]
Power Factorization: 64%	319/500 [00:42<00:24, 7.52it/s]
Power Factorization: 64%	320/500 [00:42<00:23, 7.53it/s]
Power Factorization: 64%	321/500 [00:43<00:23, 7.53it/s]
Power Factorization: 64%	322/500 [00:43<00:23, 7.51it/s]
Power Factorization: 65%	323/500 [00:43<00:23, 7.52it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.51it/s]
Power Factorization: 65%	325/500 [00:43<00:23, 7.50it/s]
Power Factorization: 65%	326/500 [00:43<00:23, 7.50it/s]
Power Factorization: 65%	327/500 [00:43<00:23, 7.52it/s]
Power Factorization: 66%	328/500 [00:44<00:22, 7.51it/s]
Power Factorization: 66%	329/500 [00:44<00:22, 7.52it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.51it/s]
Power Factorization: 66%	331/500 [00:44<00:22, 7.51it/s]
Power Factorization: 66%	332/500 [00:44<00:22, 7.52it/s]
Power Factorization: 67%	333/500 [00:44<00:22, 7.52it/s]
Power Factorization: 67%	334/500 [00:44<00:22, 7.52it/s]
Power Factorization: 67%	335/500 [00:44<00:21, 7.52it/s]
Power Factorization: 67%	336/500 [00:45<00:21, 7.52it/s]
Power Factorization: 67%	337/500 [00:45<00:21, 7.51it/s]

Power Factorization: 68%	338/500 [00:45<00:21, 7.51it/s]
Power Factorization: 68%	339/500 [00:45<00:21, 7.50it/s]
Power Factorization: 68%	340/500 [00:45<00:21, 7.46it/s]
Power Factorization: 68%	341/500 [00:45<00:21, 7.46it/s]
Power Factorization: 68%	342/500 [00:45<00:21, 7.48it/s]
Power Factorization: 69%	343/500 [00:46<00:20, 7.50it/s]
Power Factorization: 69%	344/500 [00:46<00:20, 7.48it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.47it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.45it/s]
Power Factorization: 69%	347/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	348/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	349/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	350/500 [00:46<00:20, 7.48it/s]
Power Factorization: 70%	351/500 [00:47<00:19, 7.50it/s]
Power Factorization: 70%	352/500 [00:47<00:19, 7.49it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.51it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.52it/s]
Power Factorization: 71%	355/500 [00:47<00:19, 7.53it/s]
Power Factorization: 71%	356/500 [00:47<00:19, 7.50it/s]
Power Factorization: 71%	357/500 [00:47<00:19, 7.51it/s]
Power Factorization: 72%	358/500 [00:48<00:18, 7.52it/s]
Power Factorization: 72%	359/500 [00:48<00:18, 7.51it/s]
Power Factorization: 72%	360/500 [00:48<00:18, 7.52it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.52it/s]

Power Factorization: 72%	362/500 [00:48<00:18, 7.53it/s]
Power Factorization: 73%	363/500 [00:48<00:18, 7.52it/s]
Power Factorization: 73%	364/500 [00:48<00:18, 7.52it/s]
Power Factorization: 73%	365/500 [00:48<00:17, 7.52it/s]
Power Factorization: 73%	366/500 [00:49<00:17, 7.54it/s]
Power Factorization: 73%	367/500 [00:49<00:17, 7.53it/s]
Power Factorization: 74%	368/500 [00:49<00:17, 7.56it/s]
Power Factorization: 74%	369/500 [00:49<00:17, 7.54it/s]
Power Factorization: 74%	370/500 [00:49<00:17, 7.53it/s]
Power Factorization: 74%	371/500 [00:49<00:17, 7.52it/s]
Power Factorization: 74%	372/500 [00:49<00:16, 7.55it/s]
Power Factorization: 75%	373/500 [00:49<00:16, 7.53it/s]
Power Factorization: 75%	374/500 [00:50<00:16, 7.53it/s]
Power Factorization: 75%	375/500 [00:50<00:16, 7.54it/s]
Power Factorization: 75%	376/500 [00:50<00:16, 7.54it/s]
Power Factorization: 75%	377/500 [00:50<00:16, 7.53it/s]
Power Factorization: 76%	378/500 [00:50<00:16, 7.53it/s]
Power Factorization: 76%	379/500 [00:50<00:16, 7.54it/s]
Power Factorization: 76%	380/500 [00:50<00:15, 7.54it/s]
Power Factorization: 76%	381/500 [00:51<00:15, 7.54it/s]
Power Factorization: 76%	382/500 [00:51<00:15, 7.52it/s]
Power Factorization: 77%	383/500 [00:51<00:15, 7.52it/s]
Power Factorization: 77%	384/500 [00:51<00:15, 7.55it/s]
Power Factorization: 77%	385/500 [00:51<00:15, 7.54it/s]

Power Factorization: 77%	386/500 [00:51<00:15, 7.55it/s]
Power Factorization: 77%	387/500 [00:51<00:15, 7.53it/s]
Power Factorization: 78%	388/500 [00:51<00:14, 7.52it/s]
Power Factorization: 78%	389/500 [00:52<00:14, 7.53it/s]
Power Factorization: 78%	390/500 [00:52<00:14, 7.46it/s]
Power Factorization: 78%	391/500 [00:52<00:14, 7.43it/s]
Power Factorization: 78%	392/500 [00:52<00:14, 7.46it/s]
Power Factorization: 79%	393/500 [00:52<00:14, 7.48it/s]
Power Factorization: 79%	394/500 [00:52<00:14, 7.48it/s]
Power Factorization: 79%	395/500 [00:52<00:14, 7.48it/s]
Power Factorization: 79%	396/500 [00:53<00:13, 7.50it/s]
Power Factorization: 79%	397/500 [00:53<00:13, 7.50it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.47it/s]
Power Factorization: 80%	399/500 [00:53<00:13, 7.47it/s]
Power Factorization: 80%	400/500 [00:53<00:13, 7.47it/s]
Power Factorization: 80%	401/500 [00:53<00:13, 7.48it/s]
Power Factorization: 80%	402/500 [00:53<00:13, 7.50it/s]
Power Factorization: 81%	403/500 [00:53<00:12, 7.52it/s]
Power Factorization: 81%	404/500 [00:54<00:12, 7.53it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.52it/s]
Power Factorization: 81%	406/500 [00:54<00:12, 7.54it/s]
Power Factorization: 81%	407/500 [00:54<00:12, 7.54it/s]
Power Factorization: 82%	408/500 [00:54<00:12, 7.51it/s]
Power Factorization: 82%	409/500 [00:54<00:12, 7.49it/s]

Power Factorization: 82%	410/500 [00:54<00:11, 7.51it/s]
Power Factorization: 82%	411/500 [00:55<00:11, 7.51it/s]
Power Factorization: 82%	412/500 [00:55<00:11, 7.52it/s]
Power Factorization: 83%	413/500 [00:55<00:11, 7.52it/s]
Power Factorization: 83%	414/500 [00:55<00:11, 7.52it/s]
Power Factorization: 83%	415/500 [00:55<00:11, 7.52it/s]
Power Factorization: 83%	416/500 [00:55<00:11, 7.52it/s]
Power Factorization: 83%	417/500 [00:55<00:11, 7.51it/s]
Power Factorization: 84%	418/500 [00:55<00:10, 7.52it/s]
Power Factorization: 84%	419/500 [00:56<00:10, 7.51it/s]
Power Factorization: 84%	420/500 [00:56<00:10, 7.50it/s]
Power Factorization: 84%	421/500 [00:56<00:10, 7.51it/s]
Power Factorization: 84%	422/500 [00:56<00:10, 7.52it/s]
Power Factorization: 85%	423/500 [00:56<00:10, 7.50it/s]
Power Factorization: 85%	424/500 [00:56<00:10, 7.51it/s]
Power Factorization: 85%	425/500 [00:56<00:10, 7.50it/s]
Power Factorization: 85%	426/500 [00:57<00:09, 7.51it/s]
Power Factorization: 85%	427/500 [00:57<00:09, 7.50it/s]
Power Factorization: 86%	428/500 [00:57<00:09, 7.51it/s]
Power Factorization: 86%	429/500 [00:57<00:09, 7.52it/s]
Power Factorization: 86%	430/500 [00:57<00:09, 7.52it/s]
Power Factorization: 86%	431/500 [00:57<00:09, 7.53it/s]
Power Factorization: 86%	432/500 [00:57<00:09, 7.54it/s]
Power Factorization: 87%	433/500 [00:57<00:08, 7.53it/s]

Power Factorization: 87%	434/500 [00:58<00:08,	7.53it/s]
Power Factorization: 87%	435/500 [00:58<00:08,	7.51it/s]
Power Factorization: 87%	436/500 [00:58<00:08,	7.52it/s]
Power Factorization: 87%	437/500 [00:58<00:08,	7.51it/s]
Power Factorization: 88%	438/500 [00:58<00:08,	7.52it/s]
Power Factorization: 88%	439/500 [00:58<00:08,	7.51it/s]
Power Factorization: 88%	440/500 [00:58<00:07,	7.51it/s]
Power Factorization: 88%	441/500 [00:59<00:07,	7.51it/s]
Power Factorization: 88%	442/500 [00:59<00:07,	7.52it/s]
Power Factorization: 89%	443/500 [00:59<00:07,	7.51it/s]
Power Factorization: 89%	444/500 [00:59<00:07,	7.52it/s]
Power Factorization: 89%	445/500 [00:59<00:07,	7.53it/s]
Power Factorization: 89%	446/500 [00:59<00:07,	7.55it/s]
Power Factorization: 89%	447/500 [00:59<00:07,	7.54it/s]
Power Factorization: 90%	448/500 [00:59<00:06,	7.53it/s]
Power Factorization: 90%	449/500 [01:00<00:06,	7.53it/s]
Power Factorization: 90%	450/500 [01:00<00:06,	7.54it/s]
Power Factorization: 90%	451/500 [01:00<00:06,	7.50it/s]
Power Factorization: 90%	452/500 [01:00<00:06,	7.51it/s]
Power Factorization: 91%	453/500 [01:00<00:06,	7.51it/s]
Power Factorization: 91%	454/500 [01:00<00:06,	7.53it/s]
Power Factorization: 91%	455/500 [01:00<00:05,	7.54it/s]
Power Factorization: 91%	456/500 [01:01<00:05,	7.43it/s]
Power Factorization: 91%	457/500 [01:01<00:05,	7.46it/s]

Power Factorization: 92%	458/500 [01:01<00:05, 7.48it/s]
Power Factorization: 92%	459/500 [01:01<00:05, 7.49it/s]
Power Factorization: 92%	460/500 [01:01<00:05, 7.50it/s]
Power Factorization: 92%	461/500 [01:01<00:05, 7.51it/s]
Power Factorization: 92%	462/500 [01:01<00:05, 7.47it/s]
Power Factorization: 93%	463/500 [01:01<00:04, 7.44it/s]
Power Factorization: 93%	464/500 [01:02<00:04, 7.45it/s]
Power Factorization: 93%	465/500 [01:02<00:04, 7.48it/s]
Power Factorization: 93%	466/500 [01:02<00:04, 7.50it/s]
Power Factorization: 93%	467/500 [01:02<00:04, 7.51it/s]
Power Factorization: 94%	468/500 [01:02<00:04, 7.50it/s]
Power Factorization: 94%	469/500 [01:02<00:04, 7.50it/s]
Power Factorization: 94%	470/500 [01:02<00:03, 7.52it/s]
Power Factorization: 94%	471/500 [01:03<00:03, 7.52it/s]
Power Factorization: 94%	472/500 [01:03<00:03, 7.53it/s]
Power Factorization: 95%	473/500 [01:03<00:03, 7.49it/s]
Power Factorization: 95%	474/500 [01:03<00:03, 7.48it/s]
Power Factorization: 95%	475/500 [01:03<00:03, 7.48it/s]
Power Factorization: 95%	476/500 [01:03<00:03, 7.49it/s]
Power Factorization: 95%	477/500 [01:03<00:03, 7.48it/s]
Power Factorization: 96%	478/500 [01:03<00:02, 7.51it/s]
Power Factorization: 96%	479/500 [01:04<00:02, 7.52it/s]
Power Factorization: 96%	480/500 [01:04<00:02, 7.52it/s]
Power Factorization: 96%	481/500 [01:04<00:02, 7.49it/s]

Power Factorization: 96%	482/500 [01:04<00:02, 7.52it/s]
Power Factorization: 97%	483/500 [01:04<00:02, 7.51it/s]
Power Factorization: 97%	484/500 [01:04<00:02, 7.52it/s]
Power Factorization: 97%	485/500 [01:04<00:01, 7.51it/s]
Power Factorization: 97%	486/500 [01:05<00:01, 7.51it/s]
Power Factorization: 97%	487/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%	488/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%	489/500 [01:05<00:01, 7.51it/s]
Power Factorization: 98%	490/500 [01:05<00:01, 7.53it/s]
Power Factorization: 98%	491/500 [01:05<00:01, 7.51it/s]
Power Factorization: 98%	492/500 [01:05<00:01, 7.52it/s]
Power Factorization: 99%	493/500 [01:05<00:00, 7.52it/s]
Power Factorization: 99%	494/500 [01:06<00:00, 7.52it/s]
Power Factorization: 99%	495/500 [01:06<00:00, 7.50it/s]
Power Factorization: 99%	496/500 [01:06<00:00, 7.50it/s]
Power Factorization: 99%	497/500 [01:06<00:00, 7.49it/s]
Power Factorization: 100%	498/500 [01:06<00:00, 7.50it/s]
Power Factorization: 100%	499/500 [01:06<00:00, 7.49it/s]
Power Factorization: 100%	500/500 [01:06<00:00, 7.47it/s]
Cross Validation: 40%	2/5 [02:14<03:21, 67.02s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:06, 7.50it/s]
Power Factorization: 0%	2/500 [00:00<01:06, 7.51it/s]
Power Factorization: 1%	3/500 [00:00<01:05, 7.54it/s]

Power Factorization:	1%	4/500 [00:00<01:05, 7.53it/s]
Power Factorization:	1%	5/500 [00:00<01:05, 7.53it/s]
Power Factorization:	1%	6/500 [00:00<01:05, 7.52it/s]
Power Factorization:	1%	7/500 [00:00<01:05, 7.50it/s]
Power Factorization:	2%	8/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.54it/s]
Power Factorization:	2%	10/500 [00:01<01:04, 7.54it/s]
Power Factorization:	2%	11/500 [00:01<01:04, 7.54it/s]
Power Factorization:	2%	12/500 [00:01<01:04, 7.52it/s]
Power Factorization:	3%	13/500 [00:01<01:04, 7.52it/s]
Power Factorization:	3%	14/500 [00:01<01:04, 7.51it/s]
Power Factorization:	3%	15/500 [00:01<01:04, 7.46it/s]
Power Factorization:	3%	16/500 [00:02<01:04, 7.48it/s]
Power Factorization:	3%	17/500 [00:02<01:04, 7.51it/s]
Power Factorization:	4%	18/500 [00:02<01:04, 7.51it/s]
Power Factorization:	4%	19/500 [00:02<01:04, 7.49it/s]
Power Factorization:	4%	20/500 [00:02<01:04, 7.48it/s]
Power Factorization:	4%	21/500 [00:02<01:03, 7.49it/s]
Power Factorization:	4%	22/500 [00:02<01:03, 7.49it/s]
Power Factorization:	5%	23/500 [00:03<01:03, 7.51it/s]
Power Factorization:	5%	24/500 [00:03<01:03, 7.50it/s]
Power Factorization:	5%	25/500 [00:03<01:03, 7.48it/s]
Power Factorization:	5%	26/500 [00:03<01:03, 7.47it/s]
Power Factorization:	5%	27/500 [00:03<01:03, 7.49it/s]

Power Factorization:	6%	28/500	[00:03<01:03, 7.48it/s]
Power Factorization:	6%	29/500	[00:03<01:02, 7.49it/s]
Power Factorization:	6%	30/500	[00:03<01:02, 7.51it/s]
Power Factorization:	6%	31/500	[00:04<01:10, 6.67it/s]
Power Factorization:	6%	32/500	[00:04<01:07, 6.91it/s]
Power Factorization:	7%	33/500	[00:04<01:06, 7.07it/s]
Power Factorization:	7%	34/500	[00:04<01:04, 7.19it/s]
Power Factorization:	7%	35/500	[00:04<01:03, 7.28it/s]
Power Factorization:	7%	36/500	[00:04<01:03, 7.34it/s]
Power Factorization:	7%	37/500	[00:04<01:02, 7.39it/s]
Power Factorization:	8%	38/500	[00:05<01:02, 7.43it/s]
Power Factorization:	8%	39/500	[00:05<01:01, 7.45it/s]
Power Factorization:	8%	40/500	[00:05<01:01, 7.49it/s]
Power Factorization:	8%	41/500	[00:05<01:01, 7.50it/s]
Power Factorization:	8%	42/500	[00:05<01:00, 7.52it/s]
Power Factorization:	9%	43/500	[00:05<01:00, 7.51it/s]
Power Factorization:	9%	44/500	[00:05<01:00, 7.51it/s]
Power Factorization:	9%	45/500	[00:06<01:00, 7.48it/s]
Power Factorization:	9%	46/500	[00:06<01:00, 7.48it/s]
Power Factorization:	9%	47/500	[00:06<01:00, 7.51it/s]
Power Factorization:	10%	48/500	[00:06<01:00, 7.53it/s]
Power Factorization:	10%	49/500	[00:06<00:59, 7.52it/s]
Power Factorization:	10%	50/500	[00:06<00:59, 7.51it/s]
Power Factorization:	10%	51/500	[00:06<00:59, 7.52it/s]

Power Factorization: 10%	52/500 [00:06<00:59, 7.51it/s]
Power Factorization: 11%	53/500 [00:07<00:59, 7.51it/s]
Power Factorization: 11%	54/500 [00:07<00:59, 7.51it/s]
Power Factorization: 11%	55/500 [00:07<00:59, 7.46it/s]
Power Factorization: 11%	56/500 [00:07<00:59, 7.47it/s]
Power Factorization: 11%	57/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	58/500 [00:07<00:58, 7.52it/s]
Power Factorization: 12%	59/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	60/500 [00:08<00:58, 7.49it/s]
Power Factorization: 12%	61/500 [00:08<00:58, 7.45it/s]
Power Factorization: 12%	62/500 [00:08<00:58, 7.49it/s]
Power Factorization: 13%	63/500 [00:08<00:58, 7.50it/s]
Power Factorization: 13%	64/500 [00:08<00:58, 7.48it/s]
Power Factorization: 13%	65/500 [00:08<00:58, 7.49it/s]
Power Factorization: 13%	66/500 [00:08<00:57, 7.49it/s]
Power Factorization: 13%	67/500 [00:08<00:57, 7.47it/s]
Power Factorization: 14%	68/500 [00:09<00:57, 7.47it/s]
Power Factorization: 14%	69/500 [00:09<00:57, 7.50it/s]
Power Factorization: 14%	70/500 [00:09<00:57, 7.51it/s]
Power Factorization: 14%	71/500 [00:09<00:57, 7.48it/s]
Power Factorization: 14%	72/500 [00:09<00:57, 7.50it/s]
Power Factorization: 15%	73/500 [00:09<00:56, 7.50it/s]
Power Factorization: 15%	74/500 [00:09<00:56, 7.50it/s]
Power Factorization: 15%	75/500 [00:10<00:56, 7.49it/s]

Power Factorization: 15%	76/500 [00:10<00:56, 7.51it/s]
Power Factorization: 15%	77/500 [00:10<00:56, 7.51it/s]
Power Factorization: 16%	78/500 [00:10<00:56, 7.49it/s]
Power Factorization: 16%	79/500 [00:10<00:56, 7.44it/s]
Power Factorization: 16%	80/500 [00:10<00:56, 7.49it/s]
Power Factorization: 16%	81/500 [00:10<00:57, 7.35it/s]
Power Factorization: 16%	82/500 [00:11<01:01, 6.82it/s]
Power Factorization: 17%	83/500 [00:11<01:00, 6.95it/s]
Power Factorization: 17%	84/500 [00:11<00:58, 7.12it/s]
Power Factorization: 17%	85/500 [00:11<00:57, 7.23it/s]
Power Factorization: 17%	86/500 [00:11<00:56, 7.31it/s]
Power Factorization: 17%	87/500 [00:11<00:55, 7.38it/s]
Power Factorization: 18%	88/500 [00:11<00:55, 7.42it/s]
Power Factorization: 18%	89/500 [00:11<00:55, 7.42it/s]
Power Factorization: 18%	90/500 [00:12<00:55, 7.44it/s]
Power Factorization: 18%	91/500 [00:12<00:55, 7.44it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.45it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.46it/s]
Power Factorization: 19%	94/500 [00:12<00:54, 7.48it/s]
Power Factorization: 19%	95/500 [00:12<00:54, 7.48it/s]
Power Factorization: 19%	96/500 [00:12<00:54, 7.48it/s]
Power Factorization: 19%	97/500 [00:13<00:53, 7.48it/s]
Power Factorization: 20%	98/500 [00:13<00:53, 7.49it/s]
Power Factorization: 20%	99/500 [00:13<00:53, 7.50it/s]

Power Factorization: 20%	100/500 [00:13<00:53, 7.49it/s]
Power Factorization: 20%	101/500 [00:13<00:53, 7.46it/s]
Power Factorization: 20%	102/500 [00:13<00:53, 7.49it/s]
Power Factorization: 21%	103/500 [00:13<00:53, 7.48it/s]
Power Factorization: 21%	104/500 [00:13<00:52, 7.49it/s]
Power Factorization: 21%	105/500 [00:14<00:52, 7.47it/s]
Power Factorization: 21%	106/500 [00:14<00:52, 7.51it/s]
Power Factorization: 21%	107/500 [00:14<00:52, 7.43it/s]
Power Factorization: 22%	108/500 [00:14<00:52, 7.44it/s]
Power Factorization: 22%	109/500 [00:14<00:52, 7.48it/s]
Power Factorization: 22%	110/500 [00:14<00:52, 7.47it/s]
Power Factorization: 22%	111/500 [00:14<00:52, 7.46it/s]
Power Factorization: 22%	112/500 [00:15<00:51, 7.47it/s]
Power Factorization: 23%	113/500 [00:15<00:51, 7.49it/s]
Power Factorization: 23%	114/500 [00:15<00:51, 7.52it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.53it/s]
Power Factorization: 23%	116/500 [00:15<00:51, 7.52it/s]
Power Factorization: 23%	117/500 [00:15<00:51, 7.50it/s]
Power Factorization: 24%	118/500 [00:15<00:50, 7.54it/s]
Power Factorization: 24%	119/500 [00:15<00:50, 7.52it/s]
Power Factorization: 24%	120/500 [00:16<00:50, 7.50it/s]
Power Factorization: 24%	121/500 [00:16<00:50, 7.49it/s]
Power Factorization: 24%	122/500 [00:16<00:50, 7.51it/s]
Power Factorization: 25%	123/500 [00:16<00:50, 7.52it/s]

Power Factorization: 25%	124/500 [00:16<00:50, 7.51it/s]
Power Factorization: 25%	125/500 [00:16<00:49, 7.51it/s]
Power Factorization: 25%	126/500 [00:16<00:49, 7.54it/s]
Power Factorization: 25%	127/500 [00:17<00:49, 7.53it/s]
Power Factorization: 26%	128/500 [00:17<00:49, 7.52it/s]
Power Factorization: 26%	129/500 [00:17<00:49, 7.53it/s]
Power Factorization: 26%	130/500 [00:17<00:49, 7.53it/s]
Power Factorization: 26%	131/500 [00:17<00:49, 7.52it/s]
Power Factorization: 26%	132/500 [00:17<00:48, 7.53it/s]
Power Factorization: 27%	133/500 [00:17<00:48, 7.52it/s]
Power Factorization: 27%	134/500 [00:17<00:48, 7.52it/s]
Power Factorization: 27%	135/500 [00:18<00:48, 7.51it/s]
Power Factorization: 27%	136/500 [00:18<00:48, 7.51it/s]
Power Factorization: 27%	137/500 [00:18<00:48, 7.53it/s]
Power Factorization: 28%	138/500 [00:18<00:47, 7.54it/s]
Power Factorization: 28%	139/500 [00:18<00:47, 7.53it/s]
Power Factorization: 28%	140/500 [00:18<00:47, 7.54it/s]
Power Factorization: 28%	141/500 [00:18<00:47, 7.50it/s]
Power Factorization: 28%	142/500 [00:19<00:47, 7.50it/s]
Power Factorization: 29%	143/500 [00:19<00:47, 7.49it/s]
Power Factorization: 29%	144/500 [00:19<00:47, 7.50it/s]
Power Factorization: 29%	145/500 [00:19<00:47, 7.53it/s]
Power Factorization: 29%	146/500 [00:19<00:47, 7.52it/s]
Power Factorization: 29%	147/500 [00:19<00:46, 7.53it/s]

Power Factorization: 30%	148/500 [00:19<00:46, 7.50it/s]
Power Factorization: 30%	149/500 [00:19<00:46, 7.51it/s]
Power Factorization: 30%	150/500 [00:20<00:46, 7.51it/s]
Power Factorization: 30%	151/500 [00:20<00:46, 7.50it/s]
Power Factorization: 30%	152/500 [00:20<00:46, 7.50it/s]
Power Factorization: 31%	153/500 [00:20<00:46, 7.46it/s]
Power Factorization: 31%	154/500 [00:20<00:46, 7.44it/s]
Power Factorization: 31%	155/500 [00:20<00:46, 7.44it/s]
Power Factorization: 31%	156/500 [00:20<00:46, 7.47it/s]
Power Factorization: 31%	157/500 [00:21<00:45, 7.48it/s]
Power Factorization: 32%	158/500 [00:21<00:46, 7.42it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.43it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.47it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.46it/s]
Power Factorization: 32%	162/500 [00:21<00:45, 7.43it/s]
Power Factorization: 33%	163/500 [00:21<00:45, 7.45it/s]
Power Factorization: 33%	164/500 [00:21<00:44, 7.47it/s]
Power Factorization: 33%	165/500 [00:22<00:44, 7.47it/s]
Power Factorization: 33%	166/500 [00:22<00:44, 7.52it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.52it/s]
Power Factorization: 34%	168/500 [00:22<00:44, 7.52it/s]
Power Factorization: 34%	169/500 [00:22<00:44, 7.52it/s]
Power Factorization: 34%	170/500 [00:22<00:44, 7.50it/s]
Power Factorization: 34%	171/500 [00:22<00:44, 7.43it/s]

Power Factorization: 34%	172/500 [00:23<00:43, 7.46it/s]
Power Factorization: 35%	173/500 [00:23<00:43, 7.47it/s]
Power Factorization: 35%	174/500 [00:23<00:43, 7.50it/s]
Power Factorization: 35%	175/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	176/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	177/500 [00:23<00:43, 7.51it/s]
Power Factorization: 36%	178/500 [00:23<00:42, 7.50it/s]
Power Factorization: 36%	179/500 [00:23<00:43, 7.44it/s]
Power Factorization: 36%	180/500 [00:24<00:43, 7.44it/s]
Power Factorization: 36%	181/500 [00:24<00:42, 7.47it/s]
Power Factorization: 36%	182/500 [00:24<00:42, 7.52it/s]
Power Factorization: 37%	183/500 [00:24<00:42, 7.51it/s]
Power Factorization: 37%	184/500 [00:24<00:42, 7.51it/s]
Power Factorization: 37%	185/500 [00:24<00:42, 7.49it/s]
Power Factorization: 37%	186/500 [00:24<00:41, 7.50it/s]
Power Factorization: 37%	187/500 [00:25<00:41, 7.48it/s]
Power Factorization: 38%	188/500 [00:25<00:41, 7.49it/s]
Power Factorization: 38%	189/500 [00:25<00:41, 7.42it/s]
Power Factorization: 38%	190/500 [00:25<00:41, 7.46it/s]
Power Factorization: 38%	191/500 [00:25<00:41, 7.47it/s]
Power Factorization: 38%	192/500 [00:25<00:41, 7.48it/s]
Power Factorization: 39%	193/500 [00:25<00:41, 7.48it/s]
Power Factorization: 39%	194/500 [00:25<00:40, 7.50it/s]
Power Factorization: 39%	195/500 [00:26<00:40, 7.46it/s]

Power Factorization: 39%	196/500 [00:26<00:40, 7.46it/s]
Power Factorization: 39%	197/500 [00:26<00:40, 7.49it/s]
Power Factorization: 40%	198/500 [00:26<00:40, 7.51it/s]
Power Factorization: 40%	199/500 [00:26<00:40, 7.48it/s]
Power Factorization: 40%	200/500 [00:26<00:40, 7.49it/s]
Power Factorization: 40%	201/500 [00:26<00:39, 7.51it/s]
Power Factorization: 40%	202/500 [00:27<00:39, 7.49it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.49it/s]
Power Factorization: 41%	204/500 [00:27<00:39, 7.52it/s]
Power Factorization: 41%	205/500 [00:27<00:39, 7.52it/s]
Power Factorization: 41%	206/500 [00:27<00:39, 7.51it/s]
Power Factorization: 41%	207/500 [00:27<00:39, 7.48it/s]
Power Factorization: 42%	208/500 [00:27<00:38, 7.51it/s]
Power Factorization: 42%	209/500 [00:27<00:38, 7.52it/s]
Power Factorization: 42%	210/500 [00:28<00:38, 7.52it/s]
Power Factorization: 42%	211/500 [00:28<00:38, 7.51it/s]
Power Factorization: 42%	212/500 [00:28<00:38, 7.52it/s]
Power Factorization: 43%	213/500 [00:28<00:38, 7.51it/s]
Power Factorization: 43%	214/500 [00:28<00:38, 7.51it/s]
Power Factorization: 43%	215/500 [00:28<00:38, 7.49it/s]
Power Factorization: 43%	216/500 [00:28<00:37, 7.50it/s]
Power Factorization: 43%	217/500 [00:29<00:37, 7.52it/s]
Power Factorization: 44%	218/500 [00:29<00:37, 7.53it/s]
Power Factorization: 44%	219/500 [00:29<00:37, 7.47it/s]

Power Factorization: 44%	220/500 [00:29<00:37, 7.46it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.48it/s]
Power Factorization: 44%	222/500 [00:29<00:37, 7.49it/s]
Power Factorization: 45%	223/500 [00:29<00:36, 7.51it/s]
Power Factorization: 45%	224/500 [00:29<00:36, 7.53it/s]
Power Factorization: 45%	225/500 [00:30<00:36, 7.51it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.49it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.50it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.52it/s]
Power Factorization: 46%	229/500 [00:30<00:36, 7.45it/s]
Power Factorization: 46%	230/500 [00:30<00:39, 6.77it/s]
Power Factorization: 46%	231/500 [00:30<00:40, 6.59it/s]
Power Factorization: 46%	232/500 [00:31<00:39, 6.83it/s]
Power Factorization: 47%	233/500 [00:31<00:38, 7.03it/s]
Power Factorization: 47%	234/500 [00:31<00:37, 7.14it/s]
Power Factorization: 47%	235/500 [00:31<00:36, 7.25it/s]
Power Factorization: 47%	236/500 [00:31<00:36, 7.32it/s]
Power Factorization: 47%	237/500 [00:31<00:35, 7.37it/s]
Power Factorization: 48%	238/500 [00:31<00:35, 7.42it/s]
Power Factorization: 48%	239/500 [00:32<00:35, 7.45it/s]
Power Factorization: 48%	240/500 [00:32<00:34, 7.44it/s]
Power Factorization: 48%	241/500 [00:32<00:34, 7.43it/s]
Power Factorization: 48%	242/500 [00:32<00:34, 7.42it/s]
Power Factorization: 49%	243/500 [00:32<00:34, 7.43it/s]

Power Factorization: 49%	244/500 [00:32<00:34, 7.44it/s]
Power Factorization: 49%	245/500 [00:32<00:34, 7.46it/s]
Power Factorization: 49%	246/500 [00:33<00:33, 7.48it/s]
Power Factorization: 49%	247/500 [00:33<00:33, 7.48it/s]
Power Factorization: 50%	248/500 [00:33<00:33, 7.49it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.50it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.53it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.53it/s]
Power Factorization: 50%	252/500 [00:33<00:32, 7.53it/s]
Power Factorization: 51%	253/500 [00:33<00:32, 7.51it/s]
Power Factorization: 51%	254/500 [00:34<00:32, 7.46it/s]
Power Factorization: 51%	255/500 [00:34<00:32, 7.43it/s]
Power Factorization: 51%	256/500 [00:34<00:32, 7.44it/s]
Power Factorization: 51%	257/500 [00:34<00:32, 7.47it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.48it/s]
Power Factorization: 52%	259/500 [00:34<00:32, 7.49it/s]
Power Factorization: 52%	260/500 [00:34<00:32, 7.49it/s]
Power Factorization: 52%	261/500 [00:35<00:31, 7.48it/s]
Power Factorization: 52%	262/500 [00:35<00:31, 7.46it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.46it/s]
Power Factorization: 53%	264/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	266/500 [00:35<00:31, 7.51it/s]
Power Factorization: 53%	267/500 [00:35<00:31, 7.51it/s]

Power Factorization: 54%	268/500 [00:35<00:30, 7.53it/s]
Power Factorization: 54%	269/500 [00:36<00:30, 7.52it/s]
Power Factorization: 54%	270/500 [00:36<00:30, 7.50it/s]
Power Factorization: 54%	271/500 [00:36<00:30, 7.50it/s]
Power Factorization: 54%	272/500 [00:36<00:30, 7.51it/s]
Power Factorization: 55%	273/500 [00:36<00:30, 7.50it/s]
Power Factorization: 55%	274/500 [00:36<00:30, 7.51it/s]
Power Factorization: 55%	275/500 [00:36<00:29, 7.50it/s]
Power Factorization: 55%	276/500 [00:37<00:29, 7.51it/s]
Power Factorization: 55%	277/500 [00:37<00:29, 7.50it/s]
Power Factorization: 56%	278/500 [00:37<00:29, 7.51it/s]
Power Factorization: 56%	279/500 [00:37<00:29, 7.51it/s]
Power Factorization: 56%	280/500 [00:37<00:29, 7.52it/s]
Power Factorization: 56%	281/500 [00:37<00:29, 7.53it/s]
Power Factorization: 56%	282/500 [00:37<00:29, 7.50it/s]
Power Factorization: 57%	283/500 [00:37<00:28, 7.50it/s]
Power Factorization: 57%	284/500 [00:38<00:28, 7.52it/s]
Power Factorization: 57%	285/500 [00:38<00:28, 7.50it/s]
Power Factorization: 57%	286/500 [00:38<00:28, 7.51it/s]
Power Factorization: 57%	287/500 [00:38<00:28, 7.51it/s]
Power Factorization: 58%	288/500 [00:38<00:28, 7.50it/s]
Power Factorization: 58%	289/500 [00:38<00:28, 7.52it/s]
Power Factorization: 58%	290/500 [00:38<00:27, 7.50it/s]
Power Factorization: 58%	291/500 [00:39<00:27, 7.50it/s]

Power Factorization: 58%	292/500 [00:39<00:27, 7.48it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.44it/s]
Power Factorization: 59%	294/500 [00:39<00:27, 7.45it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.46it/s]
Power Factorization: 59%	296/500 [00:39<00:27, 7.49it/s]
Power Factorization: 59%	297/500 [00:39<00:27, 7.38it/s]
Power Factorization: 60%	298/500 [00:39<00:27, 7.42it/s]
Power Factorization: 60%	299/500 [00:40<00:27, 7.43it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.46it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.45it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.43it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.46it/s]
Power Factorization: 61%	304/500 [00:40<00:26, 7.47it/s]
Power Factorization: 61%	305/500 [00:40<00:26, 7.49it/s]
Power Factorization: 61%	306/500 [00:41<00:25, 7.51it/s]
Power Factorization: 61%	307/500 [00:41<00:25, 7.51it/s]
Power Factorization: 62%	308/500 [00:41<00:25, 7.52it/s]
Power Factorization: 62%	309/500 [00:41<00:25, 7.50it/s]
Power Factorization: 62%	310/500 [00:41<00:25, 7.51it/s]
Power Factorization: 62%	311/500 [00:41<00:25, 7.49it/s]
Power Factorization: 62%	312/500 [00:41<00:25, 7.47it/s]
Power Factorization: 63%	313/500 [00:41<00:25, 7.46it/s]
Power Factorization: 63%	314/500 [00:42<00:24, 7.47it/s]
Power Factorization: 63%	315/500 [00:42<00:24, 7.46it/s]

Power Factorization: 63%	316/500 [00:42<00:24, 7.47it/s]
Power Factorization: 63%	317/500 [00:42<00:24, 7.47it/s]
Power Factorization: 64%	318/500 [00:42<00:24, 7.50it/s]
Power Factorization: 64%	319/500 [00:42<00:24, 7.49it/s]
Power Factorization: 64%	320/500 [00:42<00:24, 7.49it/s]
Power Factorization: 64%	321/500 [00:43<00:24, 7.40it/s]
Power Factorization: 64%	322/500 [00:43<00:24, 7.34it/s]
Power Factorization: 65%	323/500 [00:43<00:24, 7.37it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.40it/s]
Power Factorization: 65%	325/500 [00:43<00:23, 7.44it/s]
Power Factorization: 65%	326/500 [00:43<00:23, 7.45it/s]
Power Factorization: 65%	327/500 [00:43<00:23, 7.47it/s]
Power Factorization: 66%	328/500 [00:43<00:22, 7.49it/s]
Power Factorization: 66%	329/500 [00:44<00:22, 7.51it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.46it/s]
Power Factorization: 66%	331/500 [00:44<00:25, 6.75it/s]
Power Factorization: 66%	332/500 [00:44<00:24, 6.91it/s]
Power Factorization: 67%	333/500 [00:44<00:23, 7.05it/s]
Power Factorization: 67%	334/500 [00:44<00:24, 6.88it/s]
Power Factorization: 67%	335/500 [00:44<00:23, 6.99it/s]
Power Factorization: 67%	336/500 [00:45<00:22, 7.14it/s]
Power Factorization: 67%	337/500 [00:45<00:22, 7.23it/s]
Power Factorization: 68%	338/500 [00:45<00:22, 7.20it/s]
Power Factorization: 68%	339/500 [00:45<00:22, 7.27it/s]

Power Factorization: 68%	340/500 [00:45<00:21, 7.33it/s]
Power Factorization: 68%	341/500 [00:45<00:21, 7.38it/s]
Power Factorization: 68%	342/500 [00:45<00:21, 7.42it/s]
Power Factorization: 69%	343/500 [00:46<00:21, 7.44it/s]
Power Factorization: 69%	344/500 [00:46<00:20, 7.46it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.46it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.46it/s]
Power Factorization: 69%	347/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	348/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	349/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	350/500 [00:46<00:20, 7.48it/s]
Power Factorization: 70%	351/500 [00:47<00:19, 7.49it/s]
Power Factorization: 70%	352/500 [00:47<00:19, 7.49it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.48it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.47it/s]
Power Factorization: 71%	355/500 [00:47<00:19, 7.48it/s]
Power Factorization: 71%	356/500 [00:47<00:19, 7.46it/s]
Power Factorization: 71%	357/500 [00:47<00:19, 7.45it/s]
Power Factorization: 72%	358/500 [00:48<00:19, 7.45it/s]
Power Factorization: 72%	359/500 [00:48<00:18, 7.48it/s]
Power Factorization: 72%	360/500 [00:48<00:18, 7.47it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.46it/s]
Power Factorization: 72%	362/500 [00:48<00:18, 7.47it/s]
Power Factorization: 73%	363/500 [00:48<00:18, 7.49it/s]

Power Factorization: 73%	364/500 [00:48<00:18,	7.49it/s]
Power Factorization: 73%	365/500 [00:48<00:18,	7.44it/s]
Power Factorization: 73%	366/500 [00:49<00:17,	7.45it/s]
Power Factorization: 73%	367/500 [00:49<00:17,	7.46it/s]
Power Factorization: 74%	368/500 [00:49<00:18,	7.23it/s]
Power Factorization: 74%	369/500 [00:49<00:19,	6.55it/s]
Power Factorization: 74%	370/500 [00:49<00:19,	6.76it/s]
Power Factorization: 74%	371/500 [00:49<00:18,	6.95it/s]
Power Factorization: 74%	372/500 [00:50<00:18,	7.11it/s]
Power Factorization: 75%	373/500 [00:50<00:17,	7.20it/s]
Power Factorization: 75%	374/500 [00:50<00:17,	7.26it/s]
Power Factorization: 75%	375/500 [00:50<00:17,	7.31it/s]
Power Factorization: 75%	376/500 [00:50<00:16,	7.36it/s]
Power Factorization: 75%	377/500 [00:50<00:16,	7.41it/s]
Power Factorization: 76%	378/500 [00:50<00:16,	7.44it/s]
Power Factorization: 76%	379/500 [00:50<00:16,	7.46it/s]
Power Factorization: 76%	380/500 [00:51<00:16,	7.47it/s]
Power Factorization: 76%	381/500 [00:51<00:15,	7.47it/s]
Power Factorization: 76%	382/500 [00:51<00:15,	7.47it/s]
Power Factorization: 77%	383/500 [00:51<00:15,	7.47it/s]
Power Factorization: 77%	384/500 [00:51<00:15,	7.47it/s]
Power Factorization: 77%	385/500 [00:51<00:15,	7.50it/s]
Power Factorization: 77%	386/500 [00:51<00:15,	7.48it/s]
Power Factorization: 77%	387/500 [00:52<00:15,	7.51it/s]

Power Factorization: 78%	388/500 [00:52<00:14, 7.50it/s]
Power Factorization: 78%	389/500 [00:52<00:14, 7.50it/s]
Power Factorization: 78%	390/500 [00:52<00:14, 7.50it/s]
Power Factorization: 78%	391/500 [00:52<00:14, 7.49it/s]
Power Factorization: 78%	392/500 [00:52<00:14, 7.50it/s]
Power Factorization: 79%	393/500 [00:52<00:14, 7.50it/s]
Power Factorization: 79%	394/500 [00:52<00:14, 7.48it/s]
Power Factorization: 79%	395/500 [00:53<00:14, 7.48it/s]
Power Factorization: 79%	396/500 [00:53<00:13, 7.49it/s]
Power Factorization: 79%	397/500 [00:53<00:13, 7.49it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.49it/s]
Power Factorization: 80%	399/500 [00:53<00:13, 7.48it/s]
Power Factorization: 80%	400/500 [00:53<00:13, 7.48it/s]
Power Factorization: 80%	401/500 [00:53<00:13, 7.47it/s]
Power Factorization: 80%	402/500 [00:54<00:13, 7.53it/s]
Power Factorization: 81%	403/500 [00:54<00:12, 7.50it/s]
Power Factorization: 81%	404/500 [00:54<00:12, 7.46it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.36it/s]
Power Factorization: 81%	406/500 [00:54<00:12, 7.32it/s]
Power Factorization: 81%	407/500 [00:54<00:12, 7.32it/s]
Power Factorization: 82%	408/500 [00:54<00:12, 7.31it/s]
Power Factorization: 82%	409/500 [00:54<00:12, 7.36it/s]
Power Factorization: 82%	410/500 [00:55<00:12, 7.42it/s]
Power Factorization: 82%	411/500 [00:55<00:11, 7.47it/s]

Power Factorization: 82%	412/500 [00:55<00:11, 7.49it/s]
Power Factorization: 83%	413/500 [00:55<00:11, 7.50it/s]
Power Factorization: 83%	414/500 [00:55<00:11, 7.53it/s]
Power Factorization: 83%	415/500 [00:55<00:11, 7.54it/s]
Power Factorization: 83%	416/500 [00:55<00:11, 7.55it/s]
Power Factorization: 83%	417/500 [00:56<00:11, 7.54it/s]
Power Factorization: 84%	418/500 [00:56<00:10, 7.52it/s]
Power Factorization: 84%	419/500 [00:56<00:10, 7.53it/s]
Power Factorization: 84%	420/500 [00:56<00:10, 7.53it/s]
Power Factorization: 84%	421/500 [00:56<00:10, 7.52it/s]
Power Factorization: 84%	422/500 [00:56<00:10, 7.51it/s]
Power Factorization: 85%	423/500 [00:56<00:10, 7.53it/s]
Power Factorization: 85%	424/500 [00:56<00:10, 7.50it/s]
Power Factorization: 85%	425/500 [00:57<00:10, 7.48it/s]
Power Factorization: 85%	426/500 [00:57<00:09, 7.48it/s]
Power Factorization: 85%	427/500 [00:57<00:09, 7.48it/s]
Power Factorization: 86%	428/500 [00:57<00:09, 7.48it/s]
Power Factorization: 86%	429/500 [00:57<00:09, 7.50it/s]
Power Factorization: 86%	430/500 [00:57<00:09, 7.45it/s]
Power Factorization: 86%	431/500 [00:57<00:09, 7.41it/s]
Power Factorization: 86%	432/500 [00:58<00:09, 7.45it/s]
Power Factorization: 87%	433/500 [00:58<00:08, 7.46it/s]
Power Factorization: 87%	434/500 [00:58<00:08, 7.40it/s]
Power Factorization: 87%	435/500 [00:58<00:08, 7.43it/s]

Power Factorization: 87%	436/500 [00:58<00:08,	7.42it/s]
Power Factorization: 87%	437/500 [00:58<00:08,	7.45it/s]
Power Factorization: 88%	438/500 [00:58<00:08,	7.45it/s]
Power Factorization: 88%	439/500 [00:58<00:08,	7.47it/s]
Power Factorization: 88%	440/500 [00:59<00:08,	7.49it/s]
Power Factorization: 88%	441/500 [00:59<00:07,	7.47it/s]
Power Factorization: 88%	442/500 [00:59<00:07,	7.48it/s]
Power Factorization: 89%	443/500 [00:59<00:07,	7.45it/s]
Power Factorization: 89%	444/500 [00:59<00:07,	7.46it/s]
Power Factorization: 89%	445/500 [00:59<00:07,	7.48it/s]
Power Factorization: 89%	446/500 [00:59<00:07,	7.46it/s]
Power Factorization: 89%	447/500 [01:00<00:07,	7.45it/s]
Power Factorization: 90%	448/500 [01:00<00:06,	7.46it/s]
Power Factorization: 90%	449/500 [01:00<00:06,	7.45it/s]
Power Factorization: 90%	450/500 [01:00<00:06,	7.44it/s]
Power Factorization: 90%	451/500 [01:00<00:06,	7.44it/s]
Power Factorization: 90%	452/500 [01:00<00:06,	7.44it/s]
Power Factorization: 91%	453/500 [01:00<00:06,	7.48it/s]
Power Factorization: 91%	454/500 [01:00<00:06,	7.48it/s]
Power Factorization: 91%	455/500 [01:01<00:06,	7.49it/s]
Power Factorization: 91%	456/500 [01:01<00:05,	7.51it/s]
Power Factorization: 91%	457/500 [01:01<00:05,	7.52it/s]
Power Factorization: 92%	458/500 [01:01<00:05,	7.50it/s]
Power Factorization: 92%	459/500 [01:01<00:05,	7.50it/s]

Power Factorization: 92%	460/500 [01:01<00:05, 7.50it/s]
Power Factorization: 92%	461/500 [01:01<00:05, 7.48it/s]
Power Factorization: 92%	462/500 [01:02<00:05, 7.49it/s]
Power Factorization: 93%	463/500 [01:02<00:04, 7.50it/s]
Power Factorization: 93%	464/500 [01:02<00:04, 7.47it/s]
Power Factorization: 93%	465/500 [01:02<00:04, 7.46it/s]
Power Factorization: 93%	466/500 [01:02<00:04, 7.47it/s]
Power Factorization: 93%	467/500 [01:02<00:04, 7.50it/s]
Power Factorization: 94%	468/500 [01:02<00:04, 7.52it/s]
Power Factorization: 94%	469/500 [01:02<00:04, 7.49it/s]
Power Factorization: 94%	470/500 [01:03<00:04, 7.47it/s]
Power Factorization: 94%	471/500 [01:03<00:03, 7.48it/s]
Power Factorization: 94%	472/500 [01:03<00:03, 7.50it/s]
Power Factorization: 95%	473/500 [01:03<00:03, 7.48it/s]
Power Factorization: 95%	474/500 [01:03<00:03, 7.47it/s]
Power Factorization: 95%	475/500 [01:03<00:03, 7.42it/s]
Power Factorization: 95%	476/500 [01:03<00:03, 7.39it/s]
Power Factorization: 95%	477/500 [01:04<00:03, 7.36it/s]
Power Factorization: 96%	478/500 [01:04<00:02, 7.40it/s]
Power Factorization: 96%	479/500 [01:04<00:02, 7.42it/s]
Power Factorization: 96%	480/500 [01:04<00:02, 7.46it/s]
Power Factorization: 96%	481/500 [01:04<00:02, 7.47it/s]
Power Factorization: 96%	482/500 [01:04<00:02, 7.49it/s]
Power Factorization: 97%	483/500 [01:04<00:02, 7.52it/s]

Power Factorization: 97%	484/500 [01:04<00:02, 7.53it/s]
Power Factorization: 97%	485/500 [01:05<00:01, 7.53it/s]
Power Factorization: 97%	486/500 [01:05<00:01, 7.52it/s]
Power Factorization: 97%	487/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%	488/500 [01:05<00:01, 7.48it/s]
Power Factorization: 98%	489/500 [01:05<00:01, 7.49it/s]
Power Factorization: 98%	490/500 [01:05<00:01, 7.47it/s]
Power Factorization: 98%	491/500 [01:05<00:01, 7.47it/s]
Power Factorization: 98%	492/500 [01:06<00:01, 7.48it/s]
Power Factorization: 99%	493/500 [01:06<00:00, 7.48it/s]
Power Factorization: 99%	494/500 [01:06<00:00, 7.48it/s]
Power Factorization: 99%	495/500 [01:06<00:00, 7.44it/s]
Power Factorization: 99%	496/500 [01:06<00:00, 7.19it/s]
Power Factorization: 99%	497/500 [01:06<00:00, 6.69it/s]
Power Factorization: 100%	498/500 [01:06<00:00, 6.91it/s]
Power Factorization: 100%	499/500 [01:07<00:00, 7.08it/s]
Power Factorization: 100%	500/500 [01:07<00:00, 7.44it/s]
Cross Validation: 60%	3/5 [03:21<02:14, 67.12s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:06, 7.56it/s]
Power Factorization: 0%	2/500 [00:00<01:06, 7.49it/s]
Power Factorization: 1%	3/500 [00:00<01:05, 7.53it/s]
Power Factorization: 1%	4/500 [00:00<01:05, 7.52it/s]
Power Factorization: 1%	5/500 [00:00<01:05, 7.54it/s]

Power Factorization:	1%	6/500 [00:00<01:05, 7.52it/s]
Power Factorization:	1%	7/500 [00:00<01:05, 7.51it/s]
Power Factorization:	2%	8/500 [00:01<01:05, 7.49it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	10/500 [00:01<01:05, 7.50it/s]
Power Factorization:	2%	11/500 [00:01<01:05, 7.50it/s]
Power Factorization:	2%	12/500 [00:01<01:04, 7.51it/s]
Power Factorization:	3%	13/500 [00:01<01:05, 7.49it/s]
Power Factorization:	3%	14/500 [00:01<01:05, 7.45it/s]
Power Factorization:	3%	15/500 [00:02<01:04, 7.47it/s]
Power Factorization:	3%	16/500 [00:02<01:04, 7.48it/s]
Power Factorization:	3%	17/500 [00:02<01:04, 7.49it/s]
Power Factorization:	4%	18/500 [00:02<01:04, 7.50it/s]
Power Factorization:	4%	19/500 [00:02<01:04, 7.48it/s]
Power Factorization:	4%	20/500 [00:02<01:04, 7.49it/s]
Power Factorization:	4%	21/500 [00:02<01:03, 7.49it/s]
Power Factorization:	4%	22/500 [00:02<01:03, 7.50it/s]
Power Factorization:	5%	23/500 [00:03<01:03, 7.51it/s]
Power Factorization:	5%	24/500 [00:03<01:03, 7.51it/s]
Power Factorization:	5%	25/500 [00:03<01:03, 7.49it/s]
Power Factorization:	5%	26/500 [00:03<01:03, 7.46it/s]
Power Factorization:	5%	27/500 [00:03<01:03, 7.50it/s]
Power Factorization:	6%	28/500 [00:03<01:02, 7.50it/s]
Power Factorization:	6%	29/500 [00:03<01:02, 7.49it/s]

Power Factorization:	6%	30/500	[00:04<01:02, 7.49it/s]
Power Factorization:	6%	31/500	[00:04<01:02, 7.49it/s]
Power Factorization:	6%	32/500	[00:04<01:02, 7.50it/s]
Power Factorization:	7%	33/500	[00:04<01:02, 7.50it/s]
Power Factorization:	7%	34/500	[00:04<01:02, 7.49it/s]
Power Factorization:	7%	35/500	[00:04<01:02, 7.50it/s]
Power Factorization:	7%	36/500	[00:04<01:01, 7.50it/s]
Power Factorization:	7%	37/500	[00:04<01:01, 7.52it/s]
Power Factorization:	8%	38/500	[00:05<01:01, 7.51it/s]
Power Factorization:	8%	39/500	[00:05<01:01, 7.51it/s]
Power Factorization:	8%	40/500	[00:05<01:01, 7.46it/s]
Power Factorization:	8%	41/500	[00:05<01:01, 7.45it/s]
Power Factorization:	8%	42/500	[00:05<01:01, 7.46it/s]
Power Factorization:	9%	43/500	[00:05<01:01, 7.48it/s]
Power Factorization:	9%	44/500	[00:05<01:01, 7.46it/s]
Power Factorization:	9%	45/500	[00:06<01:00, 7.48it/s]
Power Factorization:	9%	46/500	[00:06<01:00, 7.48it/s]
Power Factorization:	9%	47/500	[00:06<01:00, 7.48it/s]
Power Factorization:	10%	48/500	[00:06<01:00, 7.50it/s]
Power Factorization:	10%	49/500	[00:06<00:59, 7.52it/s]
Power Factorization:	10%	50/500	[00:06<00:59, 7.52it/s]
Power Factorization:	10%	51/500	[00:06<00:59, 7.51it/s]
Power Factorization:	10%	52/500	[00:06<01:00, 7.44it/s]
Power Factorization:	11%	53/500	[00:07<00:59, 7.45it/s]

Power Factorization: 11%	54/500 [00:07<00:59, 7.47it/s]
Power Factorization: 11%	55/500 [00:07<00:59, 7.47it/s]
Power Factorization: 11%	56/500 [00:07<00:59, 7.49it/s]
Power Factorization: 11%	57/500 [00:07<00:58, 7.52it/s]
Power Factorization: 12%	58/500 [00:07<00:58, 7.50it/s]
Power Factorization: 12%	59/500 [00:07<00:58, 7.50it/s]
Power Factorization: 12%	60/500 [00:08<00:58, 7.51it/s]
Power Factorization: 12%	61/500 [00:08<00:58, 7.53it/s]
Power Factorization: 12%	62/500 [00:08<00:58, 7.54it/s]
Power Factorization: 13%	63/500 [00:08<00:57, 7.55it/s]
Power Factorization: 13%	64/500 [00:08<00:57, 7.54it/s]
Power Factorization: 13%	65/500 [00:08<00:57, 7.54it/s]
Power Factorization: 13%	66/500 [00:08<00:57, 7.53it/s]
Power Factorization: 13%	67/500 [00:08<00:57, 7.54it/s]
Power Factorization: 14%	68/500 [00:09<00:57, 7.53it/s]
Power Factorization: 14%	69/500 [00:09<00:57, 7.53it/s]
Power Factorization: 14%	70/500 [00:09<00:57, 7.52it/s]
Power Factorization: 14%	71/500 [00:09<00:57, 7.52it/s]
Power Factorization: 14%	72/500 [00:09<00:56, 7.52it/s]
Power Factorization: 15%	73/500 [00:09<00:56, 7.51it/s]
Power Factorization: 15%	74/500 [00:09<00:56, 7.53it/s]
Power Factorization: 15%	75/500 [00:09<00:56, 7.53it/s]
Power Factorization: 15%	76/500 [00:10<00:56, 7.53it/s]
Power Factorization: 15%	77/500 [00:10<00:56, 7.55it/s]

Power Factorization: 16%	78/500 [00:10<00:56, 7.53it/s]
Power Factorization: 16%	79/500 [00:10<00:55, 7.53it/s]
Power Factorization: 16%	80/500 [00:10<00:55, 7.52it/s]
Power Factorization: 16%	81/500 [00:10<00:55, 7.54it/s]
Power Factorization: 16%	82/500 [00:10<00:55, 7.53it/s]
Power Factorization: 17%	83/500 [00:11<00:55, 7.55it/s]
Power Factorization: 17%	84/500 [00:11<00:55, 7.53it/s]
Power Factorization: 17%	85/500 [00:11<00:55, 7.51it/s]
Power Factorization: 17%	86/500 [00:11<00:55, 7.46it/s]
Power Factorization: 17%	87/500 [00:11<00:55, 7.45it/s]
Power Factorization: 18%	88/500 [00:11<00:55, 7.46it/s]
Power Factorization: 18%	89/500 [00:11<00:54, 7.48it/s]
Power Factorization: 18%	90/500 [00:11<00:54, 7.51it/s]
Power Factorization: 18%	91/500 [00:12<00:54, 7.54it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.51it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.53it/s]
Power Factorization: 19%	94/500 [00:12<00:54, 7.50it/s]
Power Factorization: 19%	95/500 [00:12<00:54, 7.49it/s]
Power Factorization: 19%	96/500 [00:12<00:53, 7.49it/s]
Power Factorization: 19%	97/500 [00:12<00:53, 7.49it/s]
Power Factorization: 20%	98/500 [00:13<00:53, 7.51it/s]
Power Factorization: 20%	99/500 [00:13<00:53, 7.52it/s]
Power Factorization: 20%	100/500 [00:13<00:53, 7.53it/s]
Power Factorization: 20%	101/500 [00:13<00:53, 7.52it/s]

Power Factorization: 20%	102/500 [00:13<00:52, 7.52it/s]
Power Factorization: 21%	103/500 [00:13<00:52, 7.52it/s]
Power Factorization: 21%	104/500 [00:13<00:52, 7.50it/s]
Power Factorization: 21%	105/500 [00:13<00:52, 7.51it/s]
Power Factorization: 21%	106/500 [00:14<00:52, 7.50it/s]
Power Factorization: 21%	107/500 [00:14<00:52, 7.51it/s]
Power Factorization: 22%	108/500 [00:14<00:52, 7.50it/s]
Power Factorization: 22%	109/500 [00:14<00:52, 7.51it/s]
Power Factorization: 22%	110/500 [00:14<00:51, 7.51it/s]
Power Factorization: 22%	111/500 [00:14<00:51, 7.50it/s]
Power Factorization: 22%	112/500 [00:14<00:51, 7.48it/s]
Power Factorization: 23%	113/500 [00:15<00:51, 7.50it/s]
Power Factorization: 23%	114/500 [00:15<00:51, 7.49it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.51it/s]
Power Factorization: 23%	116/500 [00:15<00:52, 7.37it/s]
Power Factorization: 23%	117/500 [00:15<00:53, 7.12it/s]
Power Factorization: 24%	118/500 [00:15<00:52, 7.24it/s]
Power Factorization: 24%	119/500 [00:15<00:52, 7.31it/s]
Power Factorization: 24%	120/500 [00:16<00:51, 7.36it/s]
Power Factorization: 24%	121/500 [00:16<00:51, 7.40it/s]
Power Factorization: 24%	122/500 [00:16<00:50, 7.44it/s]
Power Factorization: 25%	123/500 [00:16<00:50, 7.46it/s]
Power Factorization: 25%	124/500 [00:16<00:50, 7.47it/s]
Power Factorization: 25%	125/500 [00:16<00:50, 7.50it/s]

Power Factorization: 25%	126/500 [00:16<00:49, 7.51it/s]
Power Factorization: 25%	127/500 [00:16<00:49, 7.49it/s]
Power Factorization: 26%	128/500 [00:17<00:49, 7.47it/s]
Power Factorization: 26%	129/500 [00:17<00:49, 7.49it/s]
Power Factorization: 26%	130/500 [00:17<00:49, 7.50it/s]
Power Factorization: 26%	131/500 [00:17<00:49, 7.51it/s]
Power Factorization: 26%	132/500 [00:17<00:48, 7.53it/s]
Power Factorization: 27%	133/500 [00:17<00:48, 7.52it/s]
Power Factorization: 27%	134/500 [00:17<00:48, 7.53it/s]
Power Factorization: 27%	135/500 [00:18<00:48, 7.51it/s]
Power Factorization: 27%	136/500 [00:18<00:48, 7.44it/s]
Power Factorization: 27%	137/500 [00:18<00:48, 7.41it/s]
Power Factorization: 28%	138/500 [00:18<00:48, 7.42it/s]
Power Factorization: 28%	139/500 [00:18<00:48, 7.44it/s]
Power Factorization: 28%	140/500 [00:18<00:48, 7.50it/s]
Power Factorization: 28%	141/500 [00:18<00:47, 7.50it/s]
Power Factorization: 28%	142/500 [00:18<00:47, 7.50it/s]
Power Factorization: 29%	143/500 [00:19<00:47, 7.50it/s]
Power Factorization: 29%	144/500 [00:19<00:47, 7.50it/s]
Power Factorization: 29%	145/500 [00:19<00:47, 7.50it/s]
Power Factorization: 29%	146/500 [00:19<00:47, 7.52it/s]
Power Factorization: 29%	147/500 [00:19<00:46, 7.52it/s]
Power Factorization: 30%	148/500 [00:19<00:46, 7.53it/s]
Power Factorization: 30%	149/500 [00:19<00:46, 7.53it/s]

Power Factorization: 30%	150/500 [00:20<00:46, 7.52it/s]
Power Factorization: 30%	151/500 [00:20<00:46, 7.50it/s]
Power Factorization: 30%	152/500 [00:20<00:46, 7.51it/s]
Power Factorization: 31%	153/500 [00:20<00:46, 7.52it/s]
Power Factorization: 31%	154/500 [00:20<00:46, 7.52it/s]
Power Factorization: 31%	155/500 [00:20<00:45, 7.53it/s]
Power Factorization: 31%	156/500 [00:20<00:45, 7.54it/s]
Power Factorization: 31%	157/500 [00:20<00:45, 7.52it/s]
Power Factorization: 32%	158/500 [00:21<00:45, 7.53it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.50it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.49it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.50it/s]
Power Factorization: 32%	162/500 [00:21<00:45, 7.50it/s]
Power Factorization: 33%	163/500 [00:21<00:45, 7.45it/s]
Power Factorization: 33%	164/500 [00:21<00:45, 7.42it/s]
Power Factorization: 33%	165/500 [00:22<00:45, 7.33it/s]
Power Factorization: 33%	166/500 [00:22<00:45, 7.39it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.43it/s]
Power Factorization: 34%	168/500 [00:22<00:44, 7.47it/s]
Power Factorization: 34%	169/500 [00:22<00:44, 7.45it/s]
Power Factorization: 34%	170/500 [00:22<00:44, 7.35it/s]
Power Factorization: 34%	171/500 [00:22<00:45, 7.25it/s]
Power Factorization: 34%	172/500 [00:22<00:44, 7.30it/s]
Power Factorization: 35%	173/500 [00:23<00:44, 7.35it/s]

Power Factorization: 35%	174/500 [00:23<00:44, 7.41it/s]
Power Factorization: 35%	175/500 [00:23<00:44, 7.36it/s]
Power Factorization: 35%	176/500 [00:23<00:44, 7.36it/s]
Power Factorization: 35%	177/500 [00:23<00:43, 7.36it/s]
Power Factorization: 36%	178/500 [00:23<00:43, 7.36it/s]
Power Factorization: 36%	179/500 [00:23<00:43, 7.33it/s]
Power Factorization: 36%	180/500 [00:24<00:43, 7.34it/s]
Power Factorization: 36%	181/500 [00:24<00:43, 7.38it/s]
Power Factorization: 36%	182/500 [00:24<00:42, 7.42it/s]
Power Factorization: 37%	183/500 [00:24<00:42, 7.43it/s]
Power Factorization: 37%	184/500 [00:24<00:42, 7.46it/s]
Power Factorization: 37%	185/500 [00:24<00:42, 7.48it/s]
Power Factorization: 37%	186/500 [00:24<00:41, 7.50it/s]
Power Factorization: 37%	187/500 [00:24<00:41, 7.48it/s]
Power Factorization: 38%	188/500 [00:25<00:41, 7.50it/s]
Power Factorization: 38%	189/500 [00:25<00:41, 7.51it/s]
Power Factorization: 38%	190/500 [00:25<00:41, 7.52it/s]
Power Factorization: 38%	191/500 [00:25<00:41, 7.52it/s]
Power Factorization: 38%	192/500 [00:25<00:40, 7.52it/s]
Power Factorization: 39%	193/500 [00:25<00:40, 7.50it/s]
Power Factorization: 39%	194/500 [00:25<00:40, 7.50it/s]
Power Factorization: 39%	195/500 [00:26<00:40, 7.51it/s]
Power Factorization: 39%	196/500 [00:26<00:40, 7.53it/s]
Power Factorization: 39%	197/500 [00:26<00:40, 7.52it/s]

Power Factorization: 40%	198/500 [00:26<00:40, 7.49it/s]
Power Factorization: 40%	199/500 [00:26<00:40, 7.39it/s]
Power Factorization: 40%	200/500 [00:26<00:40, 7.36it/s]
Power Factorization: 40%	201/500 [00:26<00:40, 7.39it/s]
Power Factorization: 40%	202/500 [00:27<00:40, 7.41it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.44it/s]
Power Factorization: 41%	204/500 [00:27<00:39, 7.47it/s]
Power Factorization: 41%	205/500 [00:27<00:39, 7.48it/s]
Power Factorization: 41%	206/500 [00:27<00:39, 7.50it/s]
Power Factorization: 41%	207/500 [00:27<00:39, 7.51it/s]
Power Factorization: 42%	208/500 [00:27<00:38, 7.52it/s]
Power Factorization: 42%	209/500 [00:27<00:38, 7.51it/s]
Power Factorization: 42%	210/500 [00:28<00:38, 7.48it/s]
Power Factorization: 42%	211/500 [00:28<00:38, 7.51it/s]
Power Factorization: 42%	212/500 [00:28<00:38, 7.51it/s]
Power Factorization: 43%	213/500 [00:28<00:38, 7.50it/s]
Power Factorization: 43%	214/500 [00:28<00:38, 7.50it/s]
Power Factorization: 43%	215/500 [00:28<00:37, 7.51it/s]
Power Factorization: 43%	216/500 [00:28<00:37, 7.50it/s]
Power Factorization: 43%	217/500 [00:29<00:37, 7.51it/s]
Power Factorization: 44%	218/500 [00:29<00:37, 7.50it/s]
Power Factorization: 44%	219/500 [00:29<00:37, 7.50it/s]
Power Factorization: 44%	220/500 [00:29<00:37, 7.51it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.50it/s]

Power Factorization: 44%	222/500 [00:29<00:37, 7.50it/s]
Power Factorization: 45%	223/500 [00:29<00:36, 7.49it/s]
Power Factorization: 45%	224/500 [00:29<00:36, 7.51it/s]
Power Factorization: 45%	225/500 [00:30<00:36, 7.51it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.51it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.50it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.50it/s]
Power Factorization: 46%	229/500 [00:30<00:36, 7.49it/s]
Power Factorization: 46%	230/500 [00:30<00:36, 7.49it/s]
Power Factorization: 46%	231/500 [00:30<00:35, 7.51it/s]
Power Factorization: 46%	232/500 [00:31<00:35, 7.50it/s]
Power Factorization: 47%	233/500 [00:31<00:35, 7.51it/s]
Power Factorization: 47%	234/500 [00:31<00:35, 7.52it/s]
Power Factorization: 47%	235/500 [00:31<00:35, 7.51it/s]
Power Factorization: 47%	236/500 [00:31<00:35, 7.52it/s]
Power Factorization: 47%	237/500 [00:31<00:35, 7.51it/s]
Power Factorization: 48%	238/500 [00:31<00:35, 7.48it/s]
Power Factorization: 48%	239/500 [00:31<00:34, 7.51it/s]
Power Factorization: 48%	240/500 [00:32<00:34, 7.52it/s]
Power Factorization: 48%	241/500 [00:32<00:34, 7.52it/s]
Power Factorization: 48%	242/500 [00:32<00:34, 7.52it/s]
Power Factorization: 49%	243/500 [00:32<00:34, 7.53it/s]
Power Factorization: 49%	244/500 [00:32<00:34, 7.52it/s]
Power Factorization: 49%	245/500 [00:32<00:33, 7.51it/s]

Power Factorization: 49%	246/500 [00:32<00:33, 7.52it/s]
Power Factorization: 49%	247/500 [00:32<00:33, 7.52it/s]
Power Factorization: 50%	248/500 [00:33<00:33, 7.52it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.52it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.51it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.52it/s]
Power Factorization: 50%	252/500 [00:33<00:32, 7.54it/s]
Power Factorization: 51%	253/500 [00:33<00:32, 7.53it/s]
Power Factorization: 51%	254/500 [00:33<00:32, 7.52it/s]
Power Factorization: 51%	255/500 [00:34<00:32, 7.51it/s]
Power Factorization: 51%	256/500 [00:34<00:32, 7.52it/s]
Power Factorization: 51%	257/500 [00:34<00:32, 7.53it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.52it/s]
Power Factorization: 52%	259/500 [00:34<00:32, 7.53it/s]
Power Factorization: 52%	260/500 [00:34<00:31, 7.53it/s]
Power Factorization: 52%	261/500 [00:34<00:31, 7.52it/s]
Power Factorization: 52%	262/500 [00:34<00:31, 7.51it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.50it/s]
Power Factorization: 53%	264/500 [00:35<00:31, 7.51it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.50it/s]
Power Factorization: 53%	266/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	267/500 [00:35<00:31, 7.47it/s]
Power Factorization: 54%	268/500 [00:35<00:31, 7.45it/s]
Power Factorization: 54%	269/500 [00:35<00:30, 7.48it/s]

Power Factorization: 54%	270/500 [00:36<00:30, 7.50it/s]
Power Factorization: 54%	271/500 [00:36<00:30, 7.49it/s]
Power Factorization: 54%	272/500 [00:36<00:30, 7.50it/s]
Power Factorization: 55%	273/500 [00:36<00:30, 7.51it/s]
Power Factorization: 55%	274/500 [00:36<00:30, 7.51it/s]
Power Factorization: 55%	275/500 [00:36<00:29, 7.51it/s]
Power Factorization: 55%	276/500 [00:36<00:29, 7.51it/s]
Power Factorization: 55%	277/500 [00:36<00:29, 7.51it/s]
Power Factorization: 56%	278/500 [00:37<00:29, 7.52it/s]
Power Factorization: 56%	279/500 [00:37<00:29, 7.51it/s]
Power Factorization: 56%	280/500 [00:37<00:29, 7.52it/s]
Power Factorization: 56%	281/500 [00:37<00:29, 7.53it/s]
Power Factorization: 56%	282/500 [00:37<00:28, 7.55it/s]
Power Factorization: 57%	283/500 [00:37<00:28, 7.54it/s]
Power Factorization: 57%	284/500 [00:37<00:28, 7.52it/s]
Power Factorization: 57%	285/500 [00:38<00:28, 7.52it/s]
Power Factorization: 57%	286/500 [00:38<00:28, 7.52it/s]
Power Factorization: 57%	287/500 [00:38<00:29, 7.29it/s]
Power Factorization: 58%	288/500 [00:38<00:28, 7.34it/s]
Power Factorization: 58%	289/500 [00:38<00:28, 7.40it/s]
Power Factorization: 58%	290/500 [00:38<00:28, 7.44it/s]
Power Factorization: 58%	291/500 [00:38<00:27, 7.48it/s]
Power Factorization: 58%	292/500 [00:39<00:27, 7.50it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.51it/s]

Power Factorization: 59%	294/500 [00:39<00:27, 7.52it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.51it/s]
Power Factorization: 59%	296/500 [00:39<00:27, 7.51it/s]
Power Factorization: 59%	297/500 [00:39<00:27, 7.50it/s]
Power Factorization: 60%	298/500 [00:39<00:26, 7.52it/s]
Power Factorization: 60%	299/500 [00:39<00:26, 7.51it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.52it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.51it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.51it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.52it/s]
Power Factorization: 61%	304/500 [00:40<00:26, 7.50it/s]
Power Factorization: 61%	305/500 [00:40<00:26, 7.48it/s]
Power Factorization: 61%	306/500 [00:40<00:25, 7.49it/s]
Power Factorization: 61%	307/500 [00:40<00:25, 7.52it/s]
Power Factorization: 62%	308/500 [00:41<00:25, 7.51it/s]
Power Factorization: 62%	309/500 [00:41<00:25, 7.51it/s]
Power Factorization: 62%	310/500 [00:41<00:25, 7.54it/s]
Power Factorization: 62%	311/500 [00:41<00:25, 7.52it/s]
Power Factorization: 62%	312/500 [00:41<00:24, 7.53it/s]
Power Factorization: 63%	313/500 [00:41<00:24, 7.55it/s]
Power Factorization: 63%	314/500 [00:41<00:24, 7.56it/s]
Power Factorization: 63%	315/500 [00:42<00:24, 7.55it/s]
Power Factorization: 63%	316/500 [00:42<00:24, 7.54it/s]
Power Factorization: 63%	317/500 [00:42<00:24, 7.54it/s]

Power Factorization: 64%	318/500 [00:42<00:24, 7.54it/s]
Power Factorization: 64%	319/500 [00:42<00:24, 7.52it/s]
Power Factorization: 64%	320/500 [00:42<00:23, 7.52it/s]
Power Factorization: 64%	321/500 [00:42<00:23, 7.52it/s]
Power Factorization: 64%	322/500 [00:42<00:23, 7.52it/s]
Power Factorization: 65%	323/500 [00:43<00:23, 7.53it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.53it/s]
Power Factorization: 65%	325/500 [00:43<00:23, 7.54it/s]
Power Factorization: 65%	326/500 [00:43<00:23, 7.55it/s]
Power Factorization: 65%	327/500 [00:43<00:23, 7.52it/s]
Power Factorization: 66%	328/500 [00:43<00:22, 7.53it/s]
Power Factorization: 66%	329/500 [00:43<00:22, 7.54it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.52it/s]
Power Factorization: 66%	331/500 [00:44<00:22, 7.52it/s]
Power Factorization: 66%	332/500 [00:44<00:22, 7.55it/s]
Power Factorization: 67%	333/500 [00:44<00:22, 7.53it/s]
Power Factorization: 67%	334/500 [00:44<00:22, 7.54it/s]
Power Factorization: 67%	335/500 [00:44<00:21, 7.52it/s]
Power Factorization: 67%	336/500 [00:44<00:21, 7.50it/s]
Power Factorization: 67%	337/500 [00:44<00:21, 7.52it/s]
Power Factorization: 68%	338/500 [00:45<00:21, 7.53it/s]
Power Factorization: 68%	339/500 [00:45<00:21, 7.53it/s]
Power Factorization: 68%	340/500 [00:45<00:21, 7.53it/s]
Power Factorization: 68%	341/500 [00:45<00:21, 7.54it/s]

Power Factorization: 68%	342/500 [00:45<00:20, 7.53it/s]
Power Factorization: 69%	343/500 [00:45<00:20, 7.52it/s]
Power Factorization: 69%	344/500 [00:45<00:20, 7.51it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.51it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.49it/s]
Power Factorization: 69%	347/500 [00:46<00:20, 7.49it/s]
Power Factorization: 70%	348/500 [00:46<00:20, 7.50it/s]
Power Factorization: 70%	349/500 [00:46<00:20, 7.51it/s]
Power Factorization: 70%	350/500 [00:46<00:19, 7.51it/s]
Power Factorization: 70%	351/500 [00:46<00:19, 7.49it/s]
Power Factorization: 70%	352/500 [00:46<00:19, 7.46it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.46it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.45it/s]
Power Factorization: 71%	355/500 [00:47<00:19, 7.47it/s]
Power Factorization: 71%	356/500 [00:47<00:19, 7.49it/s]
Power Factorization: 71%	357/500 [00:47<00:19, 7.50it/s]
Power Factorization: 72%	358/500 [00:47<00:18, 7.50it/s]
Power Factorization: 72%	359/500 [00:47<00:18, 7.48it/s]
Power Factorization: 72%	360/500 [00:48<00:18, 7.48it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.49it/s]
Power Factorization: 72%	362/500 [00:48<00:18, 7.49it/s]
Power Factorization: 73%	363/500 [00:48<00:18, 7.48it/s]
Power Factorization: 73%	364/500 [00:48<00:18, 7.46it/s]
Power Factorization: 73%	365/500 [00:48<00:18, 7.45it/s]

Power Factorization: 73%	366/500 [00:48<00:17, 7.48it/s]
Power Factorization: 73%	367/500 [00:48<00:17, 7.48it/s]
Power Factorization: 74%	368/500 [00:49<00:17, 7.50it/s]
Power Factorization: 74%	369/500 [00:49<00:17, 7.50it/s]
Power Factorization: 74%	370/500 [00:49<00:17, 7.48it/s]
Power Factorization: 74%	371/500 [00:49<00:17, 7.47it/s]
Power Factorization: 74%	372/500 [00:49<00:17, 7.47it/s]
Power Factorization: 75%	373/500 [00:49<00:17, 7.46it/s]
Power Factorization: 75%	374/500 [00:49<00:16, 7.49it/s]
Power Factorization: 75%	375/500 [00:50<00:16, 7.49it/s]
Power Factorization: 75%	376/500 [00:50<00:16, 7.48it/s]
Power Factorization: 75%	377/500 [00:50<00:16, 7.44it/s]
Power Factorization: 76%	378/500 [00:50<00:16, 7.48it/s]
Power Factorization: 76%	379/500 [00:50<00:16, 7.49it/s]
Power Factorization: 76%	380/500 [00:50<00:16, 7.49it/s]
Power Factorization: 76%	381/500 [00:50<00:15, 7.50it/s]
Power Factorization: 76%	382/500 [00:50<00:15, 7.50it/s]
Power Factorization: 77%	383/500 [00:51<00:15, 7.50it/s]
Power Factorization: 77%	384/500 [00:51<00:15, 7.49it/s]
Power Factorization: 77%	385/500 [00:51<00:15, 7.49it/s]
Power Factorization: 77%	386/500 [00:51<00:15, 7.51it/s]
Power Factorization: 77%	387/500 [00:51<00:15, 7.52it/s]
Power Factorization: 78%	388/500 [00:51<00:14, 7.54it/s]
Power Factorization: 78%	389/500 [00:51<00:14, 7.53it/s]

Power Factorization: 78%	390/500 [00:52<00:14, 7.52it/s]
Power Factorization: 78%	391/500 [00:52<00:14, 7.49it/s]
Power Factorization: 78%	392/500 [00:52<00:14, 7.51it/s]
Power Factorization: 79%	393/500 [00:52<00:14, 7.52it/s]
Power Factorization: 79%	394/500 [00:52<00:14, 7.53it/s]
Power Factorization: 79%	395/500 [00:52<00:13, 7.51it/s]
Power Factorization: 79%	396/500 [00:52<00:13, 7.53it/s]
Power Factorization: 79%	397/500 [00:52<00:13, 7.51it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.51it/s]
Power Factorization: 80%	399/500 [00:53<00:13, 7.50it/s]
Power Factorization: 80%	400/500 [00:53<00:13, 7.50it/s]
Power Factorization: 80%	401/500 [00:53<00:13, 7.52it/s]
Power Factorization: 80%	402/500 [00:53<00:13, 7.51it/s]
Power Factorization: 81%	403/500 [00:53<00:12, 7.51it/s]
Power Factorization: 81%	404/500 [00:53<00:12, 7.51it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.51it/s]
Power Factorization: 81%	406/500 [00:54<00:12, 7.52it/s]
Power Factorization: 81%	407/500 [00:54<00:12, 7.50it/s]
Power Factorization: 82%	408/500 [00:54<00:12, 7.51it/s]
Power Factorization: 82%	409/500 [00:54<00:12, 7.52it/s]
Power Factorization: 82%	410/500 [00:54<00:11, 7.52it/s]
Power Factorization: 82%	411/500 [00:54<00:11, 7.48it/s]
Power Factorization: 82%	412/500 [00:54<00:11, 7.49it/s]
Power Factorization: 83%	413/500 [00:55<00:11, 7.48it/s]

Power Factorization: 83%	414/500 [00:55<00:11, 7.49it/s]
Power Factorization: 83%	415/500 [00:55<00:11, 7.49it/s]
Power Factorization: 83%	416/500 [00:55<00:11, 7.51it/s]
Power Factorization: 83%	417/500 [00:55<00:11, 7.52it/s]
Power Factorization: 84%	418/500 [00:55<00:10, 7.52it/s]
Power Factorization: 84%	419/500 [00:55<00:10, 7.52it/s]
Power Factorization: 84%	420/500 [00:56<00:10, 7.53it/s]
Power Factorization: 84%	421/500 [00:56<00:10, 7.52it/s]
Power Factorization: 84%	422/500 [00:56<00:10, 7.53it/s]
Power Factorization: 85%	423/500 [00:56<00:10, 7.50it/s]
Power Factorization: 85%	424/500 [00:56<00:10, 7.51it/s]
Power Factorization: 85%	425/500 [00:56<00:09, 7.50it/s]
Power Factorization: 85%	426/500 [00:56<00:09, 7.51it/s]
Power Factorization: 85%	427/500 [00:56<00:09, 7.50it/s]
Power Factorization: 86%	428/500 [00:57<00:09, 7.52it/s]
Power Factorization: 86%	429/500 [00:57<00:09, 7.52it/s]
Power Factorization: 86%	430/500 [00:57<00:09, 7.53it/s]
Power Factorization: 86%	431/500 [00:57<00:09, 7.50it/s]
Power Factorization: 86%	432/500 [00:57<00:09, 7.52it/s]
Power Factorization: 87%	433/500 [00:57<00:08, 7.51it/s]
Power Factorization: 87%	434/500 [00:57<00:08, 7.53it/s]
Power Factorization: 87%	435/500 [00:58<00:08, 7.52it/s]
Power Factorization: 87%	436/500 [00:58<00:08, 7.52it/s]
Power Factorization: 87%	437/500 [00:58<00:08, 7.51it/s]

Power Factorization: 88%	438/500 [00:58<00:08, 7.52it/s]
Power Factorization: 88%	439/500 [00:58<00:08, 7.52it/s]
Power Factorization: 88%	440/500 [00:58<00:07, 7.51it/s]
Power Factorization: 88%	441/500 [00:58<00:07, 7.52it/s]
Power Factorization: 88%	442/500 [00:58<00:07, 7.52it/s]
Power Factorization: 89%	443/500 [00:59<00:07, 7.51it/s]
Power Factorization: 89%	444/500 [00:59<00:07, 7.50it/s]
Power Factorization: 89%	445/500 [00:59<00:07, 7.52it/s]
Power Factorization: 89%	446/500 [00:59<00:07, 7.52it/s]
Power Factorization: 89%	447/500 [00:59<00:07, 7.52it/s]
Power Factorization: 90%	448/500 [00:59<00:06, 7.50it/s]
Power Factorization: 90%	449/500 [00:59<00:06, 7.51it/s]
Power Factorization: 90%	450/500 [01:00<00:06, 7.51it/s]
Power Factorization: 90%	451/500 [01:00<00:06, 7.53it/s]
Power Factorization: 90%	452/500 [01:00<00:06, 7.53it/s]
Power Factorization: 91%	453/500 [01:00<00:06, 7.51it/s]
Power Factorization: 91%	454/500 [01:00<00:06, 7.52it/s]
Power Factorization: 91%	455/500 [01:00<00:05, 7.53it/s]
Power Factorization: 91%	456/500 [01:00<00:05, 7.52it/s]
Power Factorization: 91%	457/500 [01:00<00:05, 7.52it/s]
Power Factorization: 92%	458/500 [01:01<00:05, 7.52it/s]
Power Factorization: 92%	459/500 [01:01<00:05, 7.51it/s]
Power Factorization: 92%	460/500 [01:01<00:05, 7.51it/s]
Power Factorization: 92%	461/500 [01:01<00:05, 7.52it/s]

Power Factorization: 92%	462/500 [01:01<00:05, 7.53it/s]
Power Factorization: 93%	463/500 [01:01<00:04, 7.50it/s]
Power Factorization: 93%	464/500 [01:01<00:04, 7.49it/s]
Power Factorization: 93%	465/500 [01:02<00:04, 7.50it/s]
Power Factorization: 93%	466/500 [01:02<00:04, 7.52it/s]
Power Factorization: 93%	467/500 [01:02<00:04, 7.49it/s]
Power Factorization: 94%	468/500 [01:02<00:04, 7.49it/s]
Power Factorization: 94%	469/500 [01:02<00:04, 7.48it/s]
Power Factorization: 94%	470/500 [01:02<00:03, 7.50it/s]
Power Factorization: 94%	471/500 [01:02<00:03, 7.51it/s]
Power Factorization: 94%	472/500 [01:02<00:03, 7.52it/s]
Power Factorization: 95%	473/500 [01:03<00:03, 7.53it/s]
Power Factorization: 95%	474/500 [01:03<00:03, 7.53it/s]
Power Factorization: 95%	475/500 [01:03<00:03, 7.52it/s]
Power Factorization: 95%	476/500 [01:03<00:03, 7.52it/s]
Power Factorization: 95%	477/500 [01:03<00:03, 7.50it/s]
Power Factorization: 96%	478/500 [01:03<00:02, 7.52it/s]
Power Factorization: 96%	479/500 [01:03<00:02, 7.49it/s]
Power Factorization: 96%	480/500 [01:04<00:02, 7.51it/s]
Power Factorization: 96%	481/500 [01:04<00:02, 7.49it/s]
Power Factorization: 96%	482/500 [01:04<00:02, 7.48it/s]
Power Factorization: 97%	483/500 [01:04<00:02, 7.49it/s]
Power Factorization: 97%	484/500 [01:04<00:02, 7.51it/s]
Power Factorization: 97%	485/500 [01:04<00:01, 7.51it/s]

Power Factorization: 97%	486/500 [01:04<00:01, 7.50it/s]
Power Factorization: 97%	487/500 [01:04<00:01, 7.51it/s]
Power Factorization: 98%	488/500 [01:05<00:01, 7.52it/s]
Power Factorization: 98%	489/500 [01:05<00:01, 7.52it/s]
Power Factorization: 98%	490/500 [01:05<00:01, 7.52it/s]
Power Factorization: 98%	491/500 [01:05<00:01, 7.52it/s]
Power Factorization: 98%	492/500 [01:05<00:01, 7.52it/s]
Power Factorization: 99%	493/500 [01:05<00:00, 7.53it/s]
Power Factorization: 99%	494/500 [01:05<00:00, 7.51it/s]
Power Factorization: 99%	495/500 [01:06<00:00, 7.50it/s]
Power Factorization: 99%	496/500 [01:06<00:00, 7.52it/s]
Power Factorization: 99%	497/500 [01:06<00:00, 7.53it/s]
Power Factorization: 100%	498/500 [01:06<00:00, 7.48it/s]
Power Factorization: 100%	499/500 [01:06<00:00, 7.48it/s]
Power Factorization: 100%	500/500 [01:06<00:00, 7.50it/s]
Cross Validation: 80%	4/5 [04:28<01:06, 66.97s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:06, 7.48it/s]
Power Factorization: 0%	2/500 [00:00<01:07, 7.42it/s]
Power Factorization: 1%	3/500 [00:00<01:06, 7.45it/s]
Power Factorization: 1%	4/500 [00:00<01:06, 7.47it/s]
Power Factorization: 1%	5/500 [00:00<01:05, 7.50it/s]
Power Factorization: 1%	6/500 [00:00<01:05, 7.52it/s]
Power Factorization: 1%	7/500 [00:00<01:05, 7.52it/s]

Power Factorization:	2%	8/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.50it/s]
Power Factorization:	2%	10/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	11/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	12/500 [00:01<01:05, 7.50it/s]
Power Factorization:	3%	13/500 [00:01<01:04, 7.50it/s]
Power Factorization:	3%	14/500 [00:01<01:04, 7.52it/s]
Power Factorization:	3%	15/500 [00:01<01:04, 7.53it/s]
Power Factorization:	3%	16/500 [00:02<01:04, 7.52it/s]
Power Factorization:	3%	17/500 [00:02<01:04, 7.52it/s]
Power Factorization:	4%	18/500 [00:02<01:04, 7.53it/s]
Power Factorization:	4%	19/500 [00:02<01:03, 7.53it/s]
Power Factorization:	4%	20/500 [00:02<01:03, 7.52it/s]
Power Factorization:	4%	21/500 [00:02<01:03, 7.52it/s]
Power Factorization:	4%	22/500 [00:02<01:03, 7.52it/s]
Power Factorization:	5%	23/500 [00:03<01:03, 7.52it/s]
Power Factorization:	5%	24/500 [00:03<01:03, 7.52it/s]
Power Factorization:	5%	25/500 [00:03<01:03, 7.52it/s]
Power Factorization:	5%	26/500 [00:03<01:02, 7.52it/s]
Power Factorization:	5%	27/500 [00:03<01:02, 7.52it/s]
Power Factorization:	6%	28/500 [00:03<01:02, 7.52it/s]
Power Factorization:	6%	29/500 [00:03<01:02, 7.52it/s]
Power Factorization:	6%	30/500 [00:03<01:02, 7.51it/s]
Power Factorization:	6%	31/500 [00:04<01:02, 7.48it/s]

Power Factorization:	6%	32/500	[00:04<01:02, 7.46it/s]
Power Factorization:	7%	33/500	[00:04<01:02, 7.48it/s]
Power Factorization:	7%	34/500	[00:04<01:02, 7.49it/s]
Power Factorization:	7%	35/500	[00:04<01:02, 7.48it/s]
Power Factorization:	7%	36/500	[00:04<01:02, 7.48it/s]
Power Factorization:	7%	37/500	[00:04<01:01, 7.49it/s]
Power Factorization:	8%	38/500	[00:05<01:01, 7.49it/s]
Power Factorization:	8%	39/500	[00:05<01:01, 7.49it/s]
Power Factorization:	8%	40/500	[00:05<01:01, 7.50it/s]
Power Factorization:	8%	41/500	[00:05<01:01, 7.48it/s]
Power Factorization:	8%	42/500	[00:05<01:01, 7.49it/s]
Power Factorization:	9%	43/500	[00:05<01:01, 7.48it/s]
Power Factorization:	9%	44/500	[00:05<01:00, 7.49it/s]
Power Factorization:	9%	45/500	[00:05<01:00, 7.51it/s]
Power Factorization:	9%	46/500	[00:06<01:00, 7.48it/s]
Power Factorization:	9%	47/500	[00:06<01:00, 7.46it/s]
Power Factorization:	10%	48/500	[00:06<01:00, 7.48it/s]
Power Factorization:	10%	49/500	[00:06<01:00, 7.48it/s]
Power Factorization:	10%	50/500	[00:06<01:00, 7.48it/s]
Power Factorization:	10%	51/500	[00:06<00:59, 7.50it/s]
Power Factorization:	10%	52/500	[00:06<00:59, 7.51it/s]
Power Factorization:	11%	53/500	[00:07<00:59, 7.49it/s]
Power Factorization:	11%	54/500	[00:07<00:59, 7.49it/s]
Power Factorization:	11%	55/500	[00:07<00:59, 7.50it/s]

Power Factorization: 11%	56/500 [00:07<00:59, 7.51it/s]
Power Factorization: 11%	57/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	58/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	59/500 [00:07<00:58, 7.51it/s]
Power Factorization: 12%	60/500 [00:07<00:58, 7.53it/s]
Power Factorization: 12%	61/500 [00:08<00:58, 7.50it/s]
Power Factorization: 12%	62/500 [00:08<00:58, 7.51it/s]
Power Factorization: 13%	63/500 [00:08<00:58, 7.52it/s]
Power Factorization: 13%	64/500 [00:08<00:58, 7.50it/s]
Power Factorization: 13%	65/500 [00:08<00:58, 7.49it/s]
Power Factorization: 13%	66/500 [00:08<00:57, 7.49it/s]
Power Factorization: 13%	67/500 [00:08<00:57, 7.50it/s]
Power Factorization: 14%	68/500 [00:09<00:57, 7.52it/s]
Power Factorization: 14%	69/500 [00:09<00:57, 7.49it/s]
Power Factorization: 14%	70/500 [00:09<00:57, 7.51it/s]
Power Factorization: 14%	71/500 [00:09<00:57, 7.49it/s]
Power Factorization: 14%	72/500 [00:09<00:57, 7.50it/s]
Power Factorization: 15%	73/500 [00:09<00:56, 7.49it/s]
Power Factorization: 15%	74/500 [00:09<00:56, 7.52it/s]
Power Factorization: 15%	75/500 [00:09<00:56, 7.51it/s]
Power Factorization: 15%	76/500 [00:10<00:56, 7.52it/s]
Power Factorization: 15%	77/500 [00:10<00:56, 7.51it/s]
Power Factorization: 16%	78/500 [00:10<00:56, 7.52it/s]
Power Factorization: 16%	79/500 [00:10<00:56, 7.51it/s]

Power Factorization: 16%	80/500 [00:10<00:55, 7.52it/s]
Power Factorization: 16%	81/500 [00:10<00:55, 7.52it/s]
Power Factorization: 16%	82/500 [00:10<00:55, 7.52it/s]
Power Factorization: 17%	83/500 [00:11<00:55, 7.52it/s]
Power Factorization: 17%	84/500 [00:11<00:55, 7.52it/s]
Power Factorization: 17%	85/500 [00:11<00:55, 7.42it/s]
Power Factorization: 17%	86/500 [00:11<00:55, 7.44it/s]
Power Factorization: 17%	87/500 [00:11<00:55, 7.46it/s]
Power Factorization: 18%	88/500 [00:11<00:55, 7.46it/s]
Power Factorization: 18%	89/500 [00:11<00:54, 7.48it/s]
Power Factorization: 18%	90/500 [00:12<00:54, 7.50it/s]
Power Factorization: 18%	91/500 [00:12<00:54, 7.52it/s]
Power Factorization: 18%	92/500 [00:12<00:54, 7.51it/s]
Power Factorization: 19%	93/500 [00:12<00:54, 7.51it/s]
Power Factorization: 19%	94/500 [00:12<00:54, 7.52it/s]
Power Factorization: 19%	95/500 [00:12<00:53, 7.52it/s]
Power Factorization: 19%	96/500 [00:12<00:53, 7.52it/s]
Power Factorization: 19%	97/500 [00:12<00:53, 7.51it/s]
Power Factorization: 20%	98/500 [00:13<00:53, 7.52it/s]
Power Factorization: 20%	99/500 [00:13<00:53, 7.52it/s]
Power Factorization: 20%	100/500 [00:13<00:53, 7.51it/s]
Power Factorization: 20%	101/500 [00:13<00:53, 7.50it/s]
Power Factorization: 20%	102/500 [00:13<00:53, 7.50it/s]
Power Factorization: 21%	103/500 [00:13<00:52, 7.49it/s]

Power Factorization: 21%	104/500 [00:13<00:52, 7.51it/s]
Power Factorization: 21%	105/500 [00:13<00:52, 7.52it/s]
Power Factorization: 21%	106/500 [00:14<00:52, 7.50it/s]
Power Factorization: 21%	107/500 [00:14<00:52, 7.50it/s]
Power Factorization: 22%	108/500 [00:14<00:52, 7.52it/s]
Power Factorization: 22%	109/500 [00:14<00:52, 7.51it/s]
Power Factorization: 22%	110/500 [00:14<00:51, 7.52it/s]
Power Factorization: 22%	111/500 [00:14<00:51, 7.51it/s]
Power Factorization: 22%	112/500 [00:14<00:51, 7.51it/s]
Power Factorization: 23%	113/500 [00:15<00:51, 7.51it/s]
Power Factorization: 23%	114/500 [00:15<00:51, 7.50it/s]
Power Factorization: 23%	115/500 [00:15<00:51, 7.49it/s]
Power Factorization: 23%	116/500 [00:15<00:51, 7.47it/s]
Power Factorization: 23%	117/500 [00:15<00:51, 7.46it/s]
Power Factorization: 24%	118/500 [00:15<00:51, 7.48it/s]
Power Factorization: 24%	119/500 [00:15<00:50, 7.51it/s]
Power Factorization: 24%	120/500 [00:15<00:50, 7.53it/s]
Power Factorization: 24%	121/500 [00:16<00:50, 7.51it/s]
Power Factorization: 24%	122/500 [00:16<00:50, 7.46it/s]
Power Factorization: 25%	123/500 [00:16<00:50, 7.47it/s]
Power Factorization: 25%	124/500 [00:16<00:50, 7.49it/s]
Power Factorization: 25%	125/500 [00:16<00:50, 7.49it/s]
Power Factorization: 25%	126/500 [00:16<00:49, 7.49it/s]
Power Factorization: 25%	127/500 [00:16<00:49, 7.48it/s]

Power Factorization: 26%	128/500 [00:17<00:49, 7.46it/s]
Power Factorization: 26%	129/500 [00:17<00:49, 7.47it/s]
Power Factorization: 26%	130/500 [00:17<00:49, 7.48it/s]
Power Factorization: 26%	131/500 [00:17<00:49, 7.50it/s]
Power Factorization: 26%	132/500 [00:17<00:48, 7.51it/s]
Power Factorization: 27%	133/500 [00:17<00:49, 7.47it/s]
Power Factorization: 27%	134/500 [00:17<00:49, 7.46it/s]
Power Factorization: 27%	135/500 [00:18<00:48, 7.47it/s]
Power Factorization: 27%	136/500 [00:18<00:48, 7.49it/s]
Power Factorization: 27%	137/500 [00:18<00:48, 7.49it/s]
Power Factorization: 28%	138/500 [00:18<00:48, 7.48it/s]
Power Factorization: 28%	139/500 [00:18<00:48, 7.49it/s]
Power Factorization: 28%	140/500 [00:18<00:47, 7.51it/s]
Power Factorization: 28%	141/500 [00:18<00:47, 7.48it/s]
Power Factorization: 28%	142/500 [00:18<00:47, 7.47it/s]
Power Factorization: 29%	143/500 [00:19<00:47, 7.49it/s]
Power Factorization: 29%	144/500 [00:19<00:47, 7.51it/s]
Power Factorization: 29%	145/500 [00:19<00:47, 7.51it/s]
Power Factorization: 29%	146/500 [00:19<00:47, 7.52it/s]
Power Factorization: 29%	147/500 [00:19<00:46, 7.51it/s]
Power Factorization: 30%	148/500 [00:19<00:46, 7.54it/s]
Power Factorization: 30%	149/500 [00:19<00:46, 7.51it/s]
Power Factorization: 30%	150/500 [00:20<00:46, 7.52it/s]
Power Factorization: 30%	151/500 [00:20<00:46, 7.52it/s]

Power Factorization: 30%	152/500 [00:20<00:46, 7.51it/s]
Power Factorization: 31%	153/500 [00:20<00:46, 7.52it/s]
Power Factorization: 31%	154/500 [00:20<00:45, 7.54it/s]
Power Factorization: 31%	155/500 [00:20<00:45, 7.53it/s]
Power Factorization: 31%	156/500 [00:20<00:45, 7.50it/s]
Power Factorization: 31%	157/500 [00:20<00:45, 7.50it/s]
Power Factorization: 32%	158/500 [00:21<00:45, 7.51it/s]
Power Factorization: 32%	159/500 [00:21<00:45, 7.52it/s]
Power Factorization: 32%	160/500 [00:21<00:45, 7.51it/s]
Power Factorization: 32%	161/500 [00:21<00:45, 7.50it/s]
Power Factorization: 32%	162/500 [00:21<00:45, 7.51it/s]
Power Factorization: 33%	163/500 [00:21<00:44, 7.51it/s]
Power Factorization: 33%	164/500 [00:21<00:44, 7.51it/s]
Power Factorization: 33%	165/500 [00:21<00:44, 7.51it/s]
Power Factorization: 33%	166/500 [00:22<00:44, 7.52it/s]
Power Factorization: 33%	167/500 [00:22<00:44, 7.50it/s]
Power Factorization: 34%	168/500 [00:22<00:44, 7.51it/s]
Power Factorization: 34%	169/500 [00:22<00:44, 7.51it/s]
Power Factorization: 34%	170/500 [00:22<00:43, 7.51it/s]
Power Factorization: 34%	171/500 [00:22<00:43, 7.51it/s]
Power Factorization: 34%	172/500 [00:22<00:43, 7.50it/s]
Power Factorization: 35%	173/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	174/500 [00:23<00:43, 7.51it/s]
Power Factorization: 35%	175/500 [00:23<00:43, 7.50it/s]

Power Factorization: 35%	176/500 [00:23<00:43, 7.50it/s]
Power Factorization: 35%	177/500 [00:23<00:43, 7.48it/s]
Power Factorization: 36%	178/500 [00:23<00:42, 7.49it/s]
Power Factorization: 36%	179/500 [00:23<00:43, 7.33it/s]
Power Factorization: 36%	180/500 [00:24<00:47, 6.79it/s]
Power Factorization: 36%	181/500 [00:24<00:45, 6.97it/s]
Power Factorization: 36%	182/500 [00:24<00:44, 7.13it/s]
Power Factorization: 37%	183/500 [00:24<00:43, 7.24it/s]
Power Factorization: 37%	184/500 [00:24<00:43, 7.33it/s]
Power Factorization: 37%	185/500 [00:24<00:42, 7.38it/s]
Power Factorization: 37%	186/500 [00:24<00:42, 7.40it/s]
Power Factorization: 37%	187/500 [00:24<00:42, 7.42it/s]
Power Factorization: 38%	188/500 [00:25<00:41, 7.45it/s]
Power Factorization: 38%	189/500 [00:25<00:41, 7.47it/s]
Power Factorization: 38%	190/500 [00:25<00:41, 7.46it/s]
Power Factorization: 38%	191/500 [00:25<00:41, 7.42it/s]
Power Factorization: 38%	192/500 [00:25<00:41, 7.45it/s]
Power Factorization: 39%	193/500 [00:25<00:41, 7.46it/s]
Power Factorization: 39%	194/500 [00:25<00:41, 7.44it/s]
Power Factorization: 39%	195/500 [00:26<00:40, 7.47it/s]
Power Factorization: 39%	196/500 [00:26<00:40, 7.48it/s]
Power Factorization: 39%	197/500 [00:26<00:40, 7.46it/s]
Power Factorization: 40%	198/500 [00:26<00:40, 7.49it/s]
Power Factorization: 40%	199/500 [00:26<00:40, 7.49it/s]

Power Factorization: 40%	200/500 [00:26<00:39, 7.50it/s]
Power Factorization: 40%	201/500 [00:26<00:39, 7.51it/s]
Power Factorization: 40%	202/500 [00:26<00:39, 7.50it/s]
Power Factorization: 41%	203/500 [00:27<00:39, 7.47it/s]
Power Factorization: 41%	204/500 [00:27<00:39, 7.49it/s]
Power Factorization: 41%	205/500 [00:27<00:39, 7.49it/s]
Power Factorization: 41%	206/500 [00:27<00:39, 7.50it/s]
Power Factorization: 41%	207/500 [00:27<00:39, 7.51it/s]
Power Factorization: 42%	208/500 [00:27<00:38, 7.50it/s]
Power Factorization: 42%	209/500 [00:27<00:38, 7.49it/s]
Power Factorization: 42%	210/500 [00:28<00:38, 7.50it/s]
Power Factorization: 42%	211/500 [00:28<00:38, 7.47it/s]
Power Factorization: 42%	212/500 [00:28<00:38, 7.47it/s]
Power Factorization: 43%	213/500 [00:28<00:38, 7.45it/s]
Power Factorization: 43%	214/500 [00:28<00:38, 7.45it/s]
Power Factorization: 43%	215/500 [00:28<00:38, 7.46it/s]
Power Factorization: 43%	216/500 [00:28<00:37, 7.48it/s]
Power Factorization: 43%	217/500 [00:28<00:37, 7.48it/s]
Power Factorization: 44%	218/500 [00:29<00:37, 7.48it/s]
Power Factorization: 44%	219/500 [00:29<00:37, 7.48it/s]
Power Factorization: 44%	220/500 [00:29<00:37, 7.50it/s]
Power Factorization: 44%	221/500 [00:29<00:37, 7.50it/s]
Power Factorization: 44%	222/500 [00:29<00:37, 7.50it/s]
Power Factorization: 45%	223/500 [00:29<00:37, 7.47it/s]

Power Factorization: 45%	224/500 [00:29<00:37, 7.43it/s]
Power Factorization: 45%	225/500 [00:30<00:37, 7.40it/s]
Power Factorization: 45%	226/500 [00:30<00:36, 7.42it/s]
Power Factorization: 45%	227/500 [00:30<00:36, 7.40it/s]
Power Factorization: 46%	228/500 [00:30<00:36, 7.37it/s]
Power Factorization: 46%	229/500 [00:30<00:36, 7.36it/s]
Power Factorization: 46%	230/500 [00:30<00:36, 7.37it/s]
Power Factorization: 46%	231/500 [00:30<00:36, 7.35it/s]
Power Factorization: 46%	232/500 [00:31<00:36, 7.26it/s]
Power Factorization: 47%	233/500 [00:31<00:36, 7.32it/s]
Power Factorization: 47%	234/500 [00:31<00:36, 7.36it/s]
Power Factorization: 47%	235/500 [00:31<00:35, 7.40it/s]
Power Factorization: 47%	236/500 [00:31<00:35, 7.39it/s]
Power Factorization: 47%	237/500 [00:31<00:35, 7.32it/s]
Power Factorization: 48%	238/500 [00:31<00:35, 7.35it/s]
Power Factorization: 48%	239/500 [00:31<00:35, 7.37it/s]
Power Factorization: 48%	240/500 [00:32<00:35, 7.42it/s]
Power Factorization: 48%	241/500 [00:32<00:34, 7.45it/s]
Power Factorization: 48%	242/500 [00:32<00:34, 7.48it/s]
Power Factorization: 49%	243/500 [00:32<00:34, 7.46it/s]
Power Factorization: 49%	244/500 [00:32<00:34, 7.49it/s]
Power Factorization: 49%	245/500 [00:32<00:34, 7.49it/s]
Power Factorization: 49%	246/500 [00:32<00:33, 7.49it/s]
Power Factorization: 49%	247/500 [00:33<00:33, 7.48it/s]

Power Factorization: 50%	248/500 [00:33<00:33, 7.49it/s]
Power Factorization: 50%	249/500 [00:33<00:33, 7.50it/s]
Power Factorization: 50%	250/500 [00:33<00:33, 7.49it/s]
Power Factorization: 50%	251/500 [00:33<00:33, 7.50it/s]
Power Factorization: 50%	252/500 [00:33<00:33, 7.51it/s]
Power Factorization: 51%	253/500 [00:33<00:32, 7.52it/s]
Power Factorization: 51%	254/500 [00:33<00:32, 7.52it/s]
Power Factorization: 51%	255/500 [00:34<00:32, 7.52it/s]
Power Factorization: 51%	256/500 [00:34<00:32, 7.51it/s]
Power Factorization: 51%	257/500 [00:34<00:32, 7.51it/s]
Power Factorization: 52%	258/500 [00:34<00:32, 7.52it/s]
Power Factorization: 52%	259/500 [00:34<00:32, 7.51it/s]
Power Factorization: 52%	260/500 [00:34<00:31, 7.52it/s]
Power Factorization: 52%	261/500 [00:34<00:31, 7.48it/s]
Power Factorization: 52%	262/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	263/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	264/500 [00:35<00:31, 7.50it/s]
Power Factorization: 53%	265/500 [00:35<00:31, 7.48it/s]
Power Factorization: 53%	266/500 [00:35<00:31, 7.49it/s]
Power Factorization: 53%	267/500 [00:35<00:31, 7.49it/s]
Power Factorization: 54%	268/500 [00:35<00:30, 7.49it/s]
Power Factorization: 54%	269/500 [00:35<00:30, 7.48it/s]
Power Factorization: 54%	270/500 [00:36<00:30, 7.48it/s]
Power Factorization: 54%	271/500 [00:36<00:30, 7.50it/s]

Power Factorization: 54%	272/500 [00:36<00:30, 7.50it/s]
Power Factorization: 55%	273/500 [00:36<00:31, 7.24it/s]
Power Factorization: 55%	274/500 [00:36<00:31, 7.08it/s]
Power Factorization: 55%	275/500 [00:36<00:31, 7.20it/s]
Power Factorization: 55%	276/500 [00:36<00:30, 7.30it/s]
Power Factorization: 55%	277/500 [00:37<00:30, 7.33it/s]
Power Factorization: 56%	278/500 [00:37<00:30, 7.38it/s]
Power Factorization: 56%	279/500 [00:37<00:29, 7.42it/s]
Power Factorization: 56%	280/500 [00:37<00:29, 7.44it/s]
Power Factorization: 56%	281/500 [00:37<00:29, 7.45it/s]
Power Factorization: 56%	282/500 [00:37<00:29, 7.48it/s]
Power Factorization: 57%	283/500 [00:37<00:28, 7.49it/s]
Power Factorization: 57%	284/500 [00:37<00:28, 7.52it/s]
Power Factorization: 57%	285/500 [00:38<00:28, 7.52it/s]
Power Factorization: 57%	286/500 [00:38<00:28, 7.50it/s]
Power Factorization: 57%	287/500 [00:38<00:28, 7.50it/s]
Power Factorization: 58%	288/500 [00:38<00:28, 7.51it/s]
Power Factorization: 58%	289/500 [00:38<00:28, 7.50it/s]
Power Factorization: 58%	290/500 [00:38<00:28, 7.48it/s]
Power Factorization: 58%	291/500 [00:38<00:27, 7.50it/s]
Power Factorization: 58%	292/500 [00:39<00:27, 7.50it/s]
Power Factorization: 59%	293/500 [00:39<00:27, 7.50it/s]
Power Factorization: 59%	294/500 [00:39<00:27, 7.51it/s]
Power Factorization: 59%	295/500 [00:39<00:27, 7.50it/s]

Power Factorization: 59%	296/500 [00:39<00:27, 7.53it/s]
Power Factorization: 59%	297/500 [00:39<00:26, 7.53it/s]
Power Factorization: 60%	298/500 [00:39<00:26, 7.52it/s]
Power Factorization: 60%	299/500 [00:39<00:26, 7.52it/s]
Power Factorization: 60%	300/500 [00:40<00:26, 7.51it/s]
Power Factorization: 60%	301/500 [00:40<00:26, 7.50it/s]
Power Factorization: 60%	302/500 [00:40<00:26, 7.50it/s]
Power Factorization: 61%	303/500 [00:40<00:26, 7.52it/s]
Power Factorization: 61%	304/500 [00:40<00:26, 7.51it/s]
Power Factorization: 61%	305/500 [00:40<00:26, 7.50it/s]
Power Factorization: 61%	306/500 [00:40<00:25, 7.50it/s]
Power Factorization: 61%	307/500 [00:41<00:25, 7.49it/s]
Power Factorization: 62%	308/500 [00:41<00:25, 7.50it/s]
Power Factorization: 62%	309/500 [00:41<00:25, 7.49it/s]
Power Factorization: 62%	310/500 [00:41<00:25, 7.49it/s]
Power Factorization: 62%	311/500 [00:41<00:25, 7.46it/s]
Power Factorization: 62%	312/500 [00:41<00:25, 7.49it/s]
Power Factorization: 63%	313/500 [00:41<00:25, 7.48it/s]
Power Factorization: 63%	314/500 [00:41<00:24, 7.50it/s]
Power Factorization: 63%	315/500 [00:42<00:24, 7.48it/s]
Power Factorization: 63%	316/500 [00:42<00:24, 7.50it/s]
Power Factorization: 63%	317/500 [00:42<00:24, 7.48it/s]
Power Factorization: 64%	318/500 [00:42<00:24, 7.43it/s]
Power Factorization: 64%	319/500 [00:42<00:24, 7.42it/s]

Power Factorization: 64%	320/500 [00:42<00:24, 7.45it/s]
Power Factorization: 64%	321/500 [00:42<00:23, 7.47it/s]
Power Factorization: 64%	322/500 [00:43<00:23, 7.46it/s]
Power Factorization: 65%	323/500 [00:43<00:23, 7.45it/s]
Power Factorization: 65%	324/500 [00:43<00:23, 7.47it/s]
Power Factorization: 65%	325/500 [00:43<00:23, 7.48it/s]
Power Factorization: 65%	326/500 [00:43<00:23, 7.50it/s]
Power Factorization: 65%	327/500 [00:43<00:23, 7.50it/s]
Power Factorization: 66%	328/500 [00:43<00:22, 7.53it/s]
Power Factorization: 66%	329/500 [00:44<00:22, 7.50it/s]
Power Factorization: 66%	330/500 [00:44<00:22, 7.51it/s]
Power Factorization: 66%	331/500 [00:44<00:22, 7.49it/s]
Power Factorization: 66%	332/500 [00:44<00:22, 7.49it/s]
Power Factorization: 67%	333/500 [00:44<00:22, 7.49it/s]
Power Factorization: 67%	334/500 [00:44<00:22, 7.49it/s]
Power Factorization: 67%	335/500 [00:44<00:22, 7.49it/s]
Power Factorization: 67%	336/500 [00:44<00:21, 7.49it/s]
Power Factorization: 67%	337/500 [00:45<00:21, 7.45it/s]
Power Factorization: 68%	338/500 [00:45<00:21, 7.42it/s]
Power Factorization: 68%	339/500 [00:45<00:21, 7.43it/s]
Power Factorization: 68%	340/500 [00:45<00:21, 7.44it/s]
Power Factorization: 68%	341/500 [00:45<00:21, 7.45it/s]
Power Factorization: 68%	342/500 [00:45<00:21, 7.48it/s]
Power Factorization: 69%	343/500 [00:45<00:21, 7.47it/s]

Power Factorization: 69%	344/500 [00:46<00:20, 7.50it/s]
Power Factorization: 69%	345/500 [00:46<00:20, 7.50it/s]
Power Factorization: 69%	346/500 [00:46<00:20, 7.52it/s]
Power Factorization: 69%	347/500 [00:46<00:20, 7.51it/s]
Power Factorization: 70%	348/500 [00:46<00:20, 7.50it/s]
Power Factorization: 70%	349/500 [00:46<00:20, 7.48it/s]
Power Factorization: 70%	350/500 [00:46<00:20, 7.50it/s]
Power Factorization: 70%	351/500 [00:46<00:19, 7.49it/s]
Power Factorization: 70%	352/500 [00:47<00:19, 7.49it/s]
Power Factorization: 71%	353/500 [00:47<00:19, 7.50it/s]
Power Factorization: 71%	354/500 [00:47<00:19, 7.51it/s]
Power Factorization: 71%	355/500 [00:47<00:19, 7.51it/s]
Power Factorization: 71%	356/500 [00:47<00:19, 7.51it/s]
Power Factorization: 71%	357/500 [00:47<00:19, 7.50it/s]
Power Factorization: 72%	358/500 [00:47<00:18, 7.51it/s]
Power Factorization: 72%	359/500 [00:48<00:18, 7.50it/s]
Power Factorization: 72%	360/500 [00:48<00:18, 7.53it/s]
Power Factorization: 72%	361/500 [00:48<00:18, 7.51it/s]
Power Factorization: 72%	362/500 [00:48<00:18, 7.53it/s]
Power Factorization: 73%	363/500 [00:48<00:18, 7.43it/s]
Power Factorization: 73%	364/500 [00:48<00:19, 6.88it/s]
Power Factorization: 73%	365/500 [00:48<00:19, 6.88it/s]
Power Factorization: 73%	366/500 [00:48<00:18, 7.07it/s]
Power Factorization: 73%	367/500 [00:49<00:18, 7.20it/s]

Power Factorization: 74%	368/500 [00:49<00:18, 7.30it/s]
Power Factorization: 74%	369/500 [00:49<00:17, 7.36it/s]
Power Factorization: 74%	370/500 [00:49<00:17, 7.38it/s]
Power Factorization: 74%	371/500 [00:49<00:17, 7.41it/s]
Power Factorization: 74%	372/500 [00:49<00:17, 7.45it/s]
Power Factorization: 75%	373/500 [00:49<00:17, 7.45it/s]
Power Factorization: 75%	374/500 [00:50<00:16, 7.48it/s]
Power Factorization: 75%	375/500 [00:50<00:16, 7.50it/s]
Power Factorization: 75%	376/500 [00:50<00:16, 7.51it/s]
Power Factorization: 75%	377/500 [00:50<00:16, 7.51it/s]
Power Factorization: 76%	378/500 [00:50<00:16, 7.51it/s]
Power Factorization: 76%	379/500 [00:50<00:16, 7.50it/s]
Power Factorization: 76%	380/500 [00:50<00:15, 7.50it/s]
Power Factorization: 76%	381/500 [00:50<00:15, 7.51it/s]
Power Factorization: 76%	382/500 [00:51<00:15, 7.50it/s]
Power Factorization: 77%	383/500 [00:51<00:15, 7.53it/s]
Power Factorization: 77%	384/500 [00:51<00:15, 7.53it/s]
Power Factorization: 77%	385/500 [00:51<00:15, 7.52it/s]
Power Factorization: 77%	386/500 [00:51<00:15, 7.54it/s]
Power Factorization: 77%	387/500 [00:51<00:15, 7.51it/s]
Power Factorization: 78%	388/500 [00:51<00:14, 7.49it/s]
Power Factorization: 78%	389/500 [00:52<00:14, 7.49it/s]
Power Factorization: 78%	390/500 [00:52<00:14, 7.45it/s]
Power Factorization: 78%	391/500 [00:52<00:14, 7.47it/s]

Power Factorization: 78%	392/500 [00:52<00:14, 7.48it/s]
Power Factorization: 79%	393/500 [00:52<00:14, 7.45it/s]
Power Factorization: 79%	394/500 [00:52<00:14, 7.44it/s]
Power Factorization: 79%	395/500 [00:52<00:14, 7.44it/s]
Power Factorization: 79%	396/500 [00:52<00:13, 7.48it/s]
Power Factorization: 79%	397/500 [00:53<00:13, 7.46it/s]
Power Factorization: 80%	398/500 [00:53<00:13, 7.46it/s]
Power Factorization: 80%	399/500 [00:53<00:13, 7.48it/s]
Power Factorization: 80%	400/500 [00:53<00:13, 7.50it/s]
Power Factorization: 80%	401/500 [00:53<00:13, 7.49it/s]
Power Factorization: 80%	402/500 [00:53<00:13, 7.51it/s]
Power Factorization: 81%	403/500 [00:53<00:12, 7.51it/s]
Power Factorization: 81%	404/500 [00:54<00:12, 7.49it/s]
Power Factorization: 81%	405/500 [00:54<00:12, 7.45it/s]
Power Factorization: 81%	406/500 [00:54<00:12, 7.41it/s]
Power Factorization: 81%	407/500 [00:54<00:12, 7.43it/s]
Power Factorization: 82%	408/500 [00:54<00:12, 7.43it/s]
Power Factorization: 82%	409/500 [00:54<00:12, 7.44it/s]
Power Factorization: 82%	410/500 [00:54<00:12, 7.47it/s]
Power Factorization: 82%	411/500 [00:55<00:11, 7.48it/s]
Power Factorization: 82%	412/500 [00:55<00:11, 7.48it/s]
Power Factorization: 83%	413/500 [00:55<00:11, 7.48it/s]
Power Factorization: 83%	414/500 [00:55<00:11, 7.48it/s]
Power Factorization: 83%	415/500 [00:55<00:11, 7.46it/s]

Power Factorization: 83%	416/500 [00:55<00:11,	7.48it/s]
Power Factorization: 83%	417/500 [00:55<00:11,	7.49it/s]
Power Factorization: 84%	418/500 [00:55<00:10,	7.46it/s]
Power Factorization: 84%	419/500 [00:56<00:10,	7.46it/s]
Power Factorization: 84%	420/500 [00:56<00:10,	7.48it/s]
Power Factorization: 84%	421/500 [00:56<00:10,	7.48it/s]
Power Factorization: 84%	422/500 [00:56<00:10,	7.50it/s]
Power Factorization: 85%	423/500 [00:56<00:10,	7.50it/s]
Power Factorization: 85%	424/500 [00:56<00:10,	7.51it/s]
Power Factorization: 85%	425/500 [00:56<00:09,	7.52it/s]
Power Factorization: 85%	426/500 [00:57<00:09,	7.52it/s]
Power Factorization: 85%	427/500 [00:57<00:09,	7.51it/s]
Power Factorization: 86%	428/500 [00:57<00:09,	7.49it/s]
Power Factorization: 86%	429/500 [00:57<00:09,	7.49it/s]
Power Factorization: 86%	430/500 [00:57<00:09,	7.49it/s]
Power Factorization: 86%	431/500 [00:57<00:09,	7.43it/s]
Power Factorization: 86%	432/500 [00:57<00:09,	7.47it/s]
Power Factorization: 87%	433/500 [00:57<00:08,	7.47it/s]
Power Factorization: 87%	434/500 [00:58<00:08,	7.49it/s]
Power Factorization: 87%	435/500 [00:58<00:08,	7.47it/s]
Power Factorization: 87%	436/500 [00:58<00:08,	7.49it/s]
Power Factorization: 87%	437/500 [00:58<00:08,	7.51it/s]
Power Factorization: 88%	438/500 [00:58<00:08,	7.51it/s]
Power Factorization: 88%	439/500 [00:58<00:08,	7.52it/s]

Power Factorization: 88%	440/500 [00:58<00:07, 7.53it/s]
Power Factorization: 88%	441/500 [00:59<00:07, 7.53it/s]
Power Factorization: 88%	442/500 [00:59<00:07, 7.54it/s]
Power Factorization: 89%	443/500 [00:59<00:07, 7.54it/s]
Power Factorization: 89%	444/500 [00:59<00:07, 7.54it/s]
Power Factorization: 89%	445/500 [00:59<00:07, 7.53it/s]
Power Factorization: 89%	446/500 [00:59<00:07, 7.53it/s]
Power Factorization: 89%	447/500 [00:59<00:07, 7.51it/s]
Power Factorization: 90%	448/500 [00:59<00:06, 7.53it/s]
Power Factorization: 90%	449/500 [01:00<00:06, 7.52it/s]
Power Factorization: 90%	450/500 [01:00<00:06, 7.43it/s]
Power Factorization: 90%	451/500 [01:00<00:06, 7.18it/s]
Power Factorization: 90%	452/500 [01:00<00:06, 7.25it/s]
Power Factorization: 91%	453/500 [01:00<00:06, 7.32it/s]
Power Factorization: 91%	454/500 [01:00<00:06, 7.36it/s]
Power Factorization: 91%	455/500 [01:00<00:06, 7.41it/s]
Power Factorization: 91%	456/500 [01:01<00:05, 7.44it/s]
Power Factorization: 91%	457/500 [01:01<00:05, 7.45it/s]
Power Factorization: 92%	458/500 [01:01<00:05, 7.44it/s]
Power Factorization: 92%	459/500 [01:01<00:05, 7.45it/s]
Power Factorization: 92%	460/500 [01:01<00:05, 7.45it/s]
Power Factorization: 92%	461/500 [01:01<00:05, 7.47it/s]
Power Factorization: 92%	462/500 [01:01<00:05, 7.49it/s]
Power Factorization: 93%	463/500 [01:01<00:04, 7.50it/s]

Power Factorization: 93%	464/500 [01:02<00:04, 7.53it/s]
Power Factorization: 93%	465/500 [01:02<00:04, 7.53it/s]
Power Factorization: 93%	466/500 [01:02<00:04, 7.52it/s]
Power Factorization: 93%	467/500 [01:02<00:04, 7.51it/s]
Power Factorization: 94%	468/500 [01:02<00:04, 7.49it/s]
Power Factorization: 94%	469/500 [01:02<00:04, 7.47it/s]
Power Factorization: 94%	470/500 [01:02<00:04, 7.49it/s]
Power Factorization: 94%	471/500 [01:03<00:03, 7.50it/s]
Power Factorization: 94%	472/500 [01:03<00:03, 7.49it/s]
Power Factorization: 95%	473/500 [01:03<00:03, 7.51it/s]
Power Factorization: 95%	474/500 [01:03<00:03, 7.52it/s]
Power Factorization: 95%	475/500 [01:03<00:03, 7.51it/s]
Power Factorization: 95%	476/500 [01:03<00:03, 7.51it/s]
Power Factorization: 95%	477/500 [01:03<00:03, 7.52it/s]
Power Factorization: 96%	478/500 [01:03<00:02, 7.53it/s]
Power Factorization: 96%	479/500 [01:04<00:02, 7.51it/s]
Power Factorization: 96%	480/500 [01:04<00:02, 7.51it/s]
Power Factorization: 96%	481/500 [01:04<00:02, 7.50it/s]
Power Factorization: 96%	482/500 [01:04<00:02, 7.51it/s]
Power Factorization: 97%	483/500 [01:04<00:02, 7.50it/s]
Power Factorization: 97%	484/500 [01:04<00:02, 7.47it/s]
Power Factorization: 97%	485/500 [01:04<00:02, 7.46it/s]
Power Factorization: 97%	486/500 [01:05<00:01, 7.48it/s]
Power Factorization: 97%	487/500 [01:05<00:01, 7.48it/s]

Power Factorization: 98%| | 488/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%| | 489/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%| | 490/500 [01:05<00:01, 7.50it/s]
Power Factorization: 98%| | 491/500 [01:05<00:01, 7.49it/s]
Power Factorization: 98%| | 492/500 [01:05<00:01, 7.49it/s]
Power Factorization: 99%| | 493/500 [01:05<00:00, 7.48it/s]
Power Factorization: 99%| | 494/500 [01:06<00:00, 7.46it/s]
Power Factorization: 99%| | 495/500 [01:06<00:00, 7.42it/s]
Power Factorization: 99%| | 496/500 [01:06<00:00, 7.18it/s]
Power Factorization: 99%| | 497/500 [01:06<00:00, 7.26it/s]
Power Factorization: 100%| | 498/500 [01:06<00:00, 7.34it/s]
Power Factorization: 100%| | 499/500 [01:06<00:00, 7.38it/s]
Power Factorization: 100%| | 500/500 [01:06<00:00, 7.47it/s]

Cross Validation: 100%| | 5/5 [05:35<00:00, 67.01s/it]
Grid Search: 19%| | 3/16 [19:50<1:22:08, 379.12s/it]

Average RMS for k=5, lambda=10: 2.5269, Execution time: 66.9656s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]
Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]
Power Factorization: 0%| | 1/500 [00:00<01:09, 7.22it/s]
Power Factorization: 0%| | 2/500 [00:00<01:08, 7.32it/s]
Power Factorization: 1%| | 3/500 [00:00<01:06, 7.45it/s]
Power Factorization: 1%| | 4/500 [00:00<01:06, 7.48it/s]
Power Factorization: 1%| | 5/500 [00:00<01:05, 7.51it/s]
Power Factorization: 1%| | 6/500 [00:00<01:05, 7.52it/s]

Power Factorization:	1%	7/500 [00:00<01:05, 7.50it/s]
Power Factorization:	2%	8/500 [00:01<01:05, 7.52it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.51it/s]
Power Factorization:	2%	10/500 [00:01<01:05, 7.50it/s]
Power Factorization:	2%	11/500 [00:01<01:04, 7.53it/s]
Power Factorization:	2%	12/500 [00:01<01:04, 7.55it/s]
Power Factorization:	3%	13/500 [00:01<01:07, 7.22it/s]
Cross Validation:	20%	1/5 [00:01<00:07, 1.83s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<01:06, 7.51it/s]
Power Factorization:	0%	2/500 [00:00<01:07, 7.39it/s]
Power Factorization:	1%	3/500 [00:00<01:06, 7.43it/s]
Power Factorization:	1%	4/500 [00:00<01:07, 7.38it/s]
Power Factorization:	1%	5/500 [00:00<01:07, 7.39it/s]
Power Factorization:	1%	6/500 [00:00<01:06, 7.38it/s]
Power Factorization:	1%	7/500 [00:00<01:06, 7.40it/s]
Power Factorization:	2%	8/500 [00:01<01:06, 7.39it/s]
Power Factorization:	2%	9/500 [00:01<01:06, 7.40it/s]
Power Factorization:	2%	10/500 [00:01<01:06, 7.40it/s]
Power Factorization:	2%	11/500 [00:01<01:06, 7.38it/s]
Power Factorization:	2%	12/500 [00:01<01:05, 7.42it/s]
Power Factorization:	3%	13/500 [00:01<01:08, 7.14it/s]
Cross Validation:	40%	2/5 [00:03<00:05, 1.84s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]

Power Factorization:	0%	1/500 [00:00<01:07, 7.40it/s]
Power Factorization:	0%	2/500 [00:00<01:07, 7.38it/s]
Power Factorization:	1%	3/500 [00:00<01:06, 7.47it/s]
Power Factorization:	1%	4/500 [00:00<01:06, 7.48it/s]
Power Factorization:	1%	5/500 [00:00<01:06, 7.39it/s]
Power Factorization:	1%	6/500 [00:00<01:06, 7.43it/s]
Power Factorization:	1%	7/500 [00:00<01:06, 7.44it/s]
Power Factorization:	2%	8/500 [00:01<01:06, 7.43it/s]
Power Factorization:	2%	9/500 [00:01<01:06, 7.43it/s]
Power Factorization:	2%	10/500 [00:01<01:06, 7.40it/s]
Power Factorization:	2%	11/500 [00:01<01:06, 7.40it/s]
Power Factorization:	2%	12/500 [00:01<01:06, 7.37it/s]
Power Factorization:	3%	13/500 [00:01<01:08, 7.13it/s]
Cross Validation:	60%	3/5 [00:05<00:03, 1.85s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<01:05, 7.58it/s]
Power Factorization:	0%	2/500 [00:00<01:06, 7.52it/s]
Power Factorization:	1%	3/500 [00:00<01:06, 7.45it/s]
Power Factorization:	1%	4/500 [00:00<01:06, 7.46it/s]
Power Factorization:	1%	5/500 [00:00<01:06, 7.49it/s]
Power Factorization:	1%	6/500 [00:00<01:05, 7.49it/s]
Power Factorization:	1%	7/500 [00:00<01:06, 7.47it/s]
Power Factorization:	2%	8/500 [00:01<01:05, 7.50it/s]
Power Factorization:	2%	9/500 [00:01<01:05, 7.48it/s]

Power Factorization: 2%| | 10/500 [00:01<01:05, 7.43it/s]

Power Factorization: 2%| | 11/500 [00:01<01:05, 7.41it/s]

Power Factorization: 2%| | 12/500 [00:01<01:05, 7.42it/s]

Power Factorization: 3%| | 13/500 [00:01<01:07, 7.18it/s]

Cross Validation: 80%| | 4/5 [00:07<00:01, 1.84s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<01:06, 7.50it/s]

Power Factorization: 0%| | 2/500 [00:00<01:06, 7.48it/s]

Power Factorization: 1%| | 3/500 [00:00<01:06, 7.45it/s]

Power Factorization: 1%| | 4/500 [00:00<01:07, 7.39it/s]

Power Factorization: 1%| | 5/500 [00:00<01:06, 7.42it/s]

Power Factorization: 1%| | 6/500 [00:00<01:06, 7.44it/s]

Power Factorization: 1%| | 7/500 [00:00<01:06, 7.41it/s]

Power Factorization: 2%| | 8/500 [00:01<01:06, 7.43it/s]

Power Factorization: 2%| | 9/500 [00:01<01:05, 7.47it/s]

Power Factorization: 2%| | 10/500 [00:01<01:05, 7.48it/s]

Power Factorization: 2%| | 11/500 [00:01<01:05, 7.49it/s]

Power Factorization: 2%| | 12/500 [00:01<01:05, 7.49it/s]

Power Factorization: 3%| | 13/500 [00:01<01:07, 7.17it/s]

Cross Validation: 100%| | 5/5 [00:09<00:00, 1.84s/it]

Grid Search: 25%| | 4/16 [19:59<46:37, 233.09s/it]

Average RMS for k=5, lambda=100: 5.1246, Execution time: 1.8143s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:34, 3.24it/s]

Power Factorization:	0%	2/500	[00:00<02:17,	3.62it/s]
Power Factorization:	1%	3/500	[00:00<02:13,	3.71it/s]
Power Factorization:	1%	4/500	[00:01<02:14,	3.70it/s]
Power Factorization:	1%	5/500	[00:01<02:11,	3.78it/s]
Power Factorization:	1%	6/500	[00:01<02:07,	3.86it/s]
Power Factorization:	1%	7/500	[00:01<02:07,	3.87it/s]
Power Factorization:	2%	8/500	[00:02<02:01,	4.03it/s]
Power Factorization:	2%	9/500	[00:02<02:02,	4.02it/s]
Power Factorization:	2%	10/500	[00:02<02:02,	4.01it/s]
Power Factorization:	2%	11/500	[00:02<02:04,	3.92it/s]
Power Factorization:	2%	12/500	[00:03<02:01,	4.01it/s]
Power Factorization:	3%	13/500	[00:03<02:01,	4.01it/s]
Power Factorization:	3%	14/500	[00:03<01:52,	4.34it/s]
Power Factorization:	3%	15/500	[00:03<01:58,	4.11it/s]
Power Factorization:	3%	16/500	[00:04<02:07,	3.80it/s]
Power Factorization:	3%	17/500	[00:04<02:05,	3.84it/s]
Power Factorization:	4%	18/500	[00:05<03:57,	2.03it/s]
Power Factorization:	4%	19/500	[00:05<03:28,	2.31it/s]
Power Factorization:	4%	20/500	[00:05<03:01,	2.65it/s]
Power Factorization:	4%	21/500	[00:06<02:43,	2.93it/s]
Power Factorization:	4%	22/500	[00:06<02:33,	3.11it/s]
Power Factorization:	5%	23/500	[00:06<02:26,	3.27it/s]
Power Factorization:	5%	24/500	[00:07<02:22,	3.34it/s]
Power Factorization:	5%	25/500	[00:07<02:41,	2.95it/s]

Power Factorization:	5%	26/500	[00:07<02:51,	2.77it/s]
Power Factorization:	5%	27/500	[00:08<02:45,	2.86it/s]
Power Factorization:	6%	28/500	[00:08<02:37,	3.01it/s]
Power Factorization:	6%	29/500	[00:08<02:34,	3.06it/s]
Power Factorization:	6%	30/500	[00:09<02:26,	3.21it/s]
Power Factorization:	6%	31/500	[00:09<02:31,	3.09it/s]
Power Factorization:	6%	32/500	[00:09<02:24,	3.23it/s]
Power Factorization:	7%	33/500	[00:09<02:18,	3.38it/s]
Power Factorization:	7%	34/500	[00:10<02:16,	3.42it/s]
Power Factorization:	7%	35/500	[00:10<02:09,	3.58it/s]
Power Factorization:	7%	36/500	[00:10<02:06,	3.66it/s]
Power Factorization:	7%	37/500	[00:11<02:08,	3.61it/s]
Power Factorization:	8%	38/500	[00:11<02:11,	3.50it/s]
Power Factorization:	8%	39/500	[00:11<02:08,	3.59it/s]
Power Factorization:	8%	40/500	[00:11<02:08,	3.57it/s]
Power Factorization:	8%	41/500	[00:12<02:04,	3.69it/s]
Power Factorization:	8%	42/500	[00:12<02:03,	3.71it/s]
Power Factorization:	9%	43/500	[00:12<02:09,	3.52it/s]
Power Factorization:	9%	44/500	[00:12<02:03,	3.71it/s]
Power Factorization:	9%	45/500	[00:13<02:04,	3.65it/s]
Power Factorization:	9%	46/500	[00:13<01:59,	3.81it/s]
Power Factorization:	9%	47/500	[00:13<01:57,	3.84it/s]
Power Factorization:	10%	48/500	[00:14<01:58,	3.82it/s]
Power Factorization:	10%	49/500	[00:14<01:56,	3.89it/s]

Power Factorization: 10%	50/500 [00:14<01:51, 4.03it/s]
Power Factorization: 10%	51/500 [00:14<02:12, 3.39it/s]
Power Factorization: 10%	52/500 [00:15<02:19, 3.22it/s]
Power Factorization: 11%	53/500 [00:15<02:13, 3.35it/s]
Power Factorization: 11%	54/500 [00:15<02:10, 3.43it/s]
Power Factorization: 11%	55/500 [00:16<02:03, 3.61it/s]
Power Factorization: 11%	56/500 [00:16<01:57, 3.79it/s]
Power Factorization: 11%	57/500 [00:16<01:59, 3.72it/s]
Power Factorization: 12%	58/500 [00:16<01:57, 3.75it/s]
Power Factorization: 12%	59/500 [00:17<01:53, 3.87it/s]
Power Factorization: 12%	60/500 [00:17<01:54, 3.86it/s]
Power Factorization: 12%	61/500 [00:17<01:52, 3.90it/s]
Power Factorization: 12%	62/500 [00:17<01:46, 4.10it/s]
Power Factorization: 13%	63/500 [00:17<01:45, 4.14it/s]
Power Factorization: 13%	64/500 [00:18<01:44, 4.18it/s]
Power Factorization: 13%	65/500 [00:18<01:46, 4.07it/s]
Power Factorization: 13%	66/500 [00:18<01:56, 3.73it/s]
Power Factorization: 13%	67/500 [00:19<02:00, 3.59it/s]
Power Factorization: 14%	68/500 [00:19<01:59, 3.61it/s]
Power Factorization: 14%	69/500 [00:19<01:48, 3.96it/s]
Power Factorization: 14%	70/500 [00:19<01:50, 3.91it/s]
Power Factorization: 14%	71/500 [00:20<02:06, 3.39it/s]
Power Factorization: 14%	72/500 [00:20<02:15, 3.16it/s]
Power Factorization: 15%	73/500 [00:20<02:02, 3.48it/s]

Power Factorization: 15%	74/500 [00:21<01:54,	3.71it/s]
Power Factorization: 15%	75/500 [00:21<01:44,	4.08it/s]
Power Factorization: 15%	76/500 [00:21<01:38,	4.28it/s]
Power Factorization: 15%	77/500 [00:21<01:38,	4.29it/s]
Power Factorization: 16%	78/500 [00:21<01:36,	4.35it/s]
Power Factorization: 16%	79/500 [00:22<01:39,	4.24it/s]
Power Factorization: 16%	80/500 [00:22<01:40,	4.18it/s]
Power Factorization: 16%	81/500 [00:22<01:37,	4.28it/s]
Power Factorization: 16%	82/500 [00:22<01:36,	4.32it/s]
Power Factorization: 17%	83/500 [00:23<01:39,	4.21it/s]
Power Factorization: 17%	84/500 [00:23<01:42,	4.04it/s]
Power Factorization: 17%	85/500 [00:23<01:47,	3.87it/s]
Power Factorization: 17%	86/500 [00:23<01:52,	3.67it/s]
Power Factorization: 17%	87/500 [00:24<01:50,	3.75it/s]
Power Factorization: 18%	88/500 [00:24<01:50,	3.73it/s]
Power Factorization: 18%	89/500 [00:24<01:51,	3.68it/s]
Power Factorization: 18%	90/500 [00:24<01:48,	3.79it/s]
Power Factorization: 18%	91/500 [00:25<01:47,	3.81it/s]
Power Factorization: 18%	92/500 [00:25<01:45,	3.87it/s]
Power Factorization: 19%	93/500 [00:25<01:44,	3.90it/s]
Power Factorization: 19%	94/500 [00:26<01:47,	3.77it/s]
Power Factorization: 19%	95/500 [00:26<02:22,	2.84it/s]
Power Factorization: 19%	96/500 [00:26<02:07,	3.16it/s]
Power Factorization: 19%	97/500 [00:27<01:56,	3.46it/s]

Power Factorization: 20%	98/500 [00:27<01:59, 3.38it/s]
Power Factorization: 20%	99/500 [00:27<01:54, 3.51it/s]
Power Factorization: 20%	100/500 [00:27<01:48, 3.69it/s]
Power Factorization: 20%	101/500 [00:28<01:45, 3.79it/s]
Power Factorization: 20%	102/500 [00:28<01:41, 3.91it/s]
Power Factorization: 21%	103/500 [00:28<01:45, 3.78it/s]
Power Factorization: 21%	104/500 [00:28<01:39, 3.97it/s]
Power Factorization: 21%	105/500 [00:29<02:23, 2.76it/s]
Power Factorization: 21%	106/500 [00:29<02:08, 3.08it/s]
Power Factorization: 21%	107/500 [00:29<01:59, 3.30it/s]
Power Factorization: 22%	108/500 [00:30<01:55, 3.40it/s]
Power Factorization: 22%	109/500 [00:30<01:52, 3.49it/s]
Power Factorization: 22%	110/500 [00:30<01:44, 3.72it/s]
Power Factorization: 22%	111/500 [00:31<01:44, 3.72it/s]
Power Factorization: 22%	112/500 [00:31<01:44, 3.72it/s]
Power Factorization: 23%	113/500 [00:31<01:38, 3.92it/s]
Power Factorization: 23%	114/500 [00:31<01:38, 3.92it/s]
Power Factorization: 23%	115/500 [00:31<01:36, 3.99it/s]
Power Factorization: 23%	116/500 [00:32<01:37, 3.94it/s]
Power Factorization: 23%	117/500 [00:32<01:35, 4.00it/s]
Power Factorization: 24%	118/500 [00:32<01:31, 4.17it/s]
Power Factorization: 24%	119/500 [00:33<01:37, 3.91it/s]
Power Factorization: 24%	120/500 [00:33<01:38, 3.85it/s]
Power Factorization: 24%	121/500 [00:33<01:35, 3.97it/s]

Power Factorization: 24%	122/500 [00:33<01:33, 4.03it/s]
Power Factorization: 25%	123/500 [00:33<01:33, 4.04it/s]
Power Factorization: 25%	124/500 [00:34<01:27, 4.31it/s]
Power Factorization: 25%	125/500 [00:34<01:37, 3.86it/s]
Power Factorization: 25%	126/500 [00:34<01:37, 3.84it/s]
Power Factorization: 25%	127/500 [00:34<01:31, 4.07it/s]
Power Factorization: 26%	128/500 [00:35<01:30, 4.09it/s]
Power Factorization: 26%	129/500 [00:35<01:34, 3.93it/s]
Power Factorization: 26%	130/500 [00:35<01:46, 3.49it/s]
Power Factorization: 26%	131/500 [00:36<01:47, 3.43it/s]
Power Factorization: 26%	132/500 [00:36<01:37, 3.78it/s]
Power Factorization: 27%	133/500 [00:36<01:36, 3.82it/s]
Power Factorization: 27%	134/500 [00:36<01:36, 3.80it/s]
Power Factorization: 27%	135/500 [00:37<01:34, 3.88it/s]
Power Factorization: 27%	136/500 [00:37<01:45, 3.46it/s]
Power Factorization: 27%	137/500 [00:37<01:37, 3.72it/s]
Power Factorization: 28%	138/500 [00:37<01:35, 3.80it/s]
Power Factorization: 28%	139/500 [00:38<01:47, 3.37it/s]
Power Factorization: 28%	140/500 [00:38<01:54, 3.14it/s]
Power Factorization: 28%	141/500 [00:39<01:58, 3.02it/s]
Power Factorization: 28%	142/500 [00:39<02:05, 2.86it/s]
Power Factorization: 29%	143/500 [00:39<01:56, 3.08it/s]
Power Factorization: 29%	144/500 [00:40<01:51, 3.19it/s]
Power Factorization: 29%	145/500 [00:40<01:53, 3.14it/s]

Power Factorization: 29%	146/500 [00:40<02:02, 2.89it/s]
Power Factorization: 29%	147/500 [00:40<01:50, 3.21it/s]
Power Factorization: 30%	148/500 [00:41<01:38, 3.56it/s]
Power Factorization: 30%	149/500 [00:41<01:39, 3.54it/s]
Power Factorization: 30%	150/500 [00:41<01:39, 3.51it/s]
Power Factorization: 30%	151/500 [00:42<01:37, 3.57it/s]
Power Factorization: 30%	152/500 [00:42<01:33, 3.73it/s]
Power Factorization: 31%	153/500 [00:42<01:33, 3.71it/s]
Power Factorization: 31%	154/500 [00:42<01:29, 3.87it/s]
Power Factorization: 31%	155/500 [00:43<01:25, 4.03it/s]
Power Factorization: 31%	156/500 [00:43<01:27, 3.94it/s]
Power Factorization: 31%	157/500 [00:43<01:22, 4.16it/s]
Power Factorization: 32%	158/500 [00:43<01:20, 4.23it/s]
Power Factorization: 32%	159/500 [00:43<01:23, 4.08it/s]
Power Factorization: 32%	160/500 [00:44<01:23, 4.05it/s]
Power Factorization: 32%	161/500 [00:44<01:26, 3.94it/s]
Power Factorization: 32%	162/500 [00:44<01:26, 3.92it/s]
Power Factorization: 33%	163/500 [00:45<01:25, 3.96it/s]
Power Factorization: 33%	164/500 [00:45<01:26, 3.89it/s]
Power Factorization: 33%	165/500 [00:45<01:24, 3.99it/s]
Power Factorization: 33%	166/500 [00:45<01:26, 3.85it/s]
Power Factorization: 33%	167/500 [00:46<01:26, 3.86it/s]
Power Factorization: 34%	168/500 [00:46<01:29, 3.72it/s]
Power Factorization: 34%	169/500 [00:46<01:30, 3.64it/s]

Power Factorization: 34%	170/500 [00:46<01:31, 3.61it/s]
Power Factorization: 34%	171/500 [00:47<01:25, 3.83it/s]
Power Factorization: 34%	172/500 [00:47<01:24, 3.89it/s]
Power Factorization: 35%	173/500 [00:47<01:27, 3.72it/s]
Power Factorization: 35%	174/500 [00:47<01:28, 3.70it/s]
Power Factorization: 35%	175/500 [00:48<01:24, 3.87it/s]
Power Factorization: 35%	176/500 [00:48<01:20, 4.04it/s]
Power Factorization: 35%	177/500 [00:48<01:19, 4.09it/s]
Power Factorization: 36%	178/500 [00:48<01:19, 4.04it/s]
Power Factorization: 36%	179/500 [00:49<01:17, 4.16it/s]
Power Factorization: 36%	180/500 [00:49<01:18, 4.07it/s]
Power Factorization: 36%	181/500 [00:49<01:18, 4.06it/s]
Power Factorization: 36%	182/500 [00:49<01:17, 4.13it/s]
Power Factorization: 37%	183/500 [00:50<01:24, 3.74it/s]
Power Factorization: 37%	184/500 [00:50<01:31, 3.45it/s]
Power Factorization: 37%	185/500 [00:50<01:33, 3.37it/s]
Power Factorization: 37%	186/500 [00:51<01:40, 3.13it/s]
Power Factorization: 37%	187/500 [00:51<01:45, 2.95it/s]
Power Factorization: 38%	188/500 [00:51<01:45, 2.96it/s]
Power Factorization: 38%	189/500 [00:52<01:34, 3.30it/s]
Power Factorization: 38%	190/500 [00:52<01:28, 3.49it/s]
Power Factorization: 38%	191/500 [00:52<01:34, 3.27it/s]
Power Factorization: 38%	192/500 [00:52<01:26, 3.54it/s]
Power Factorization: 39%	193/500 [00:53<01:24, 3.65it/s]

Power Factorization: 39%	194/500 [00:53<01:20, 3.81it/s]
Power Factorization: 39%	195/500 [00:53<01:20, 3.78it/s]
Power Factorization: 39%	196/500 [00:53<01:17, 3.94it/s]
Power Factorization: 39%	197/500 [00:54<01:12, 4.16it/s]
Power Factorization: 40%	198/500 [00:54<01:15, 4.01it/s]
Power Factorization: 40%	199/500 [00:54<01:13, 4.08it/s]
Power Factorization: 40%	200/500 [00:54<01:13, 4.09it/s]
Power Factorization: 40%	201/500 [00:55<01:17, 3.87it/s]
Power Factorization: 40%	202/500 [00:55<01:14, 3.99it/s]
Power Factorization: 41%	203/500 [00:55<01:13, 4.04it/s]
Power Factorization: 41%	204/500 [00:55<01:13, 4.03it/s]
Power Factorization: 41%	205/500 [00:56<01:13, 4.02it/s]
Power Factorization: 41%	206/500 [00:56<01:10, 4.15it/s]
Power Factorization: 41%	207/500 [00:56<01:13, 4.00it/s]
Power Factorization: 42%	208/500 [00:56<01:11, 4.08it/s]
Power Factorization: 42%	209/500 [00:57<01:11, 4.05it/s]
Power Factorization: 42%	210/500 [00:57<01:11, 4.05it/s]
Power Factorization: 42%	211/500 [00:57<01:14, 3.89it/s]
Power Factorization: 42%	212/500 [00:58<01:25, 3.38it/s]
Power Factorization: 43%	213/500 [00:58<01:23, 3.43it/s]
Power Factorization: 43%	214/500 [00:58<01:21, 3.50it/s]
Power Factorization: 43%	215/500 [00:58<01:15, 3.79it/s]
Power Factorization: 43%	216/500 [00:59<01:13, 3.87it/s]
Power Factorization: 43%	217/500 [00:59<01:11, 3.97it/s]

Power Factorization: 44%	218/500 [00:59<01:09, 4.04it/s]
Power Factorization: 44%	219/500 [00:59<01:11, 3.93it/s]
Power Factorization: 44%	220/500 [01:00<01:10, 3.96it/s]
Power Factorization: 44%	221/500 [01:00<01:06, 4.22it/s]
Power Factorization: 44%	222/500 [01:00<01:05, 4.26it/s]
Power Factorization: 45%	223/500 [01:00<01:07, 4.11it/s]
Power Factorization: 45%	224/500 [01:01<01:07, 4.08it/s]
Power Factorization: 45%	225/500 [01:01<01:06, 4.15it/s]
Power Factorization: 45%	226/500 [01:01<01:06, 4.13it/s]
Power Factorization: 45%	227/500 [01:01<01:08, 3.98it/s]
Power Factorization: 46%	228/500 [01:02<01:08, 3.96it/s]
Power Factorization: 46%	229/500 [01:02<01:09, 3.91it/s]
Power Factorization: 46%	230/500 [01:02<01:32, 2.93it/s]
Power Factorization: 46%	231/500 [01:03<01:22, 3.26it/s]
Power Factorization: 46%	232/500 [01:03<01:13, 3.67it/s]
Power Factorization: 47%	233/500 [01:03<01:17, 3.44it/s]
Power Factorization: 47%	234/500 [01:03<01:13, 3.62it/s]
Power Factorization: 47%	235/500 [01:04<01:09, 3.84it/s]
Power Factorization: 47%	236/500 [01:04<01:08, 3.86it/s]
Power Factorization: 47%	237/500 [01:04<01:07, 3.92it/s]
Power Factorization: 48%	238/500 [01:04<01:15, 3.47it/s]
Power Factorization: 48%	239/500 [01:05<01:21, 3.19it/s]
Power Factorization: 48%	240/500 [01:05<01:12, 3.59it/s]
Power Factorization: 48%	241/500 [01:05<01:14, 3.48it/s]

Power Factorization: 48%	242/500 [01:06<01:11, 3.62it/s]
Power Factorization: 49%	243/500 [01:06<01:18, 3.28it/s]
Power Factorization: 49%	244/500 [01:06<01:19, 3.23it/s]
Power Factorization: 49%	245/500 [01:07<01:16, 3.31it/s]
Power Factorization: 49%	246/500 [01:07<01:10, 3.58it/s]
Power Factorization: 49%	247/500 [01:07<01:08, 3.70it/s]
Power Factorization: 50%	248/500 [01:07<01:08, 3.70it/s]
Power Factorization: 50%	249/500 [01:08<01:08, 3.69it/s]
Power Factorization: 50%	250/500 [01:08<01:10, 3.54it/s]
Power Factorization: 50%	251/500 [01:08<01:16, 3.24it/s]
Power Factorization: 50%	252/500 [01:09<01:13, 3.36it/s]
Power Factorization: 51%	253/500 [01:09<01:10, 3.49it/s]
Power Factorization: 51%	254/500 [01:09<01:06, 3.68it/s]
Power Factorization: 51%	255/500 [01:09<01:08, 3.56it/s]
Power Factorization: 51%	256/500 [01:10<01:12, 3.37it/s]
Power Factorization: 51%	257/500 [01:10<01:06, 3.68it/s]
Power Factorization: 52%	258/500 [01:10<01:03, 3.82it/s]
Power Factorization: 52%	259/500 [01:10<01:03, 3.82it/s]
Power Factorization: 52%	260/500 [01:11<01:03, 3.77it/s]
Power Factorization: 52%	261/500 [01:11<01:00, 3.96it/s]
Power Factorization: 52%	262/500 [01:11<00:58, 4.04it/s]
Power Factorization: 53%	263/500 [01:11<01:00, 3.92it/s]
Power Factorization: 53%	264/500 [01:12<00:58, 4.02it/s]
Power Factorization: 53%	265/500 [01:12<00:58, 4.00it/s]

Power Factorization: 53%	266/500 [01:12<01:02, 3.72it/s]
Power Factorization: 53%	267/500 [01:12<01:03, 3.69it/s]
Power Factorization: 54%	268/500 [01:13<01:03, 3.68it/s]
Power Factorization: 54%	269/500 [01:13<01:02, 3.71it/s]
Power Factorization: 54%	270/500 [01:13<01:00, 3.80it/s]
Power Factorization: 54%	271/500 [01:13<00:59, 3.82it/s]
Power Factorization: 54%	272/500 [01:14<00:56, 4.02it/s]
Power Factorization: 55%	273/500 [01:14<00:52, 4.32it/s]
Power Factorization: 55%	274/500 [01:14<00:57, 3.93it/s]
Power Factorization: 55%	275/500 [01:15<01:06, 3.36it/s]
Power Factorization: 55%	276/500 [01:15<01:09, 3.20it/s]
Power Factorization: 55%	277/500 [01:15<01:09, 3.20it/s]
Power Factorization: 56%	278/500 [01:16<01:08, 3.24it/s]
Power Factorization: 56%	279/500 [01:16<01:07, 3.29it/s]
Power Factorization: 56%	280/500 [01:16<01:06, 3.30it/s]
Power Factorization: 56%	281/500 [01:16<01:04, 3.40it/s]
Power Factorization: 56%	282/500 [01:17<01:02, 3.48it/s]
Power Factorization: 57%	283/500 [01:17<01:01, 3.55it/s]
Power Factorization: 57%	284/500 [01:17<01:11, 3.02it/s]
Power Factorization: 57%	285/500 [01:18<01:11, 3.02it/s]
Power Factorization: 57%	286/500 [01:18<01:07, 3.19it/s]
Power Factorization: 57%	287/500 [01:18<01:01, 3.49it/s]
Power Factorization: 58%	288/500 [01:18<00:57, 3.69it/s]
Power Factorization: 58%	289/500 [01:19<00:58, 3.63it/s]

Power Factorization: 58%	290/500 [01:19<00:55, 3.80it/s]
Power Factorization: 58%	291/500 [01:19<00:55, 3.77it/s]
Power Factorization: 58%	292/500 [01:20<00:57, 3.65it/s]
Power Factorization: 59%	293/500 [01:20<00:55, 3.72it/s]
Power Factorization: 59%	294/500 [01:20<00:55, 3.70it/s]
Power Factorization: 59%	295/500 [01:21<01:09, 2.96it/s]
Power Factorization: 59%	296/500 [01:21<01:07, 3.04it/s]
Power Factorization: 59%	297/500 [01:21<01:06, 3.03it/s]
Power Factorization: 60%	298/500 [01:21<01:00, 3.33it/s]
Power Factorization: 60%	299/500 [01:22<01:07, 2.98it/s]
Power Factorization: 60%	300/500 [01:22<01:13, 2.71it/s]
Power Factorization: 60%	301/500 [01:23<01:09, 2.86it/s]
Power Factorization: 60%	302/500 [01:23<01:05, 3.02it/s]
Power Factorization: 61%	303/500 [01:23<01:03, 3.08it/s]
Power Factorization: 61%	304/500 [01:24<01:01, 3.18it/s]
Power Factorization: 61%	305/500 [01:24<01:01, 3.15it/s]
Power Factorization: 61%	306/500 [01:24<01:00, 3.22it/s]
Power Factorization: 61%	307/500 [01:24<00:56, 3.39it/s]
Power Factorization: 62%	308/500 [01:25<00:54, 3.53it/s]
Power Factorization: 62%	309/500 [01:25<00:53, 3.57it/s]
Power Factorization: 62%	310/500 [01:25<00:50, 3.76it/s]
Power Factorization: 62%	311/500 [01:25<00:50, 3.74it/s]
Power Factorization: 62%	312/500 [01:26<00:52, 3.58it/s]
Power Factorization: 63%	313/500 [01:26<00:54, 3.40it/s]

Power Factorization: 63%	314/500 [01:26<00:53, 3.49it/s]
Power Factorization: 63%	315/500 [01:27<00:57, 3.20it/s]
Power Factorization: 63%	316/500 [01:27<00:54, 3.36it/s]
Power Factorization: 63%	317/500 [01:27<00:52, 3.46it/s]
Power Factorization: 64%	318/500 [01:27<00:47, 3.81it/s]
Power Factorization: 64%	319/500 [01:28<00:47, 3.83it/s]
Power Factorization: 64%	320/500 [01:28<00:52, 3.40it/s]
Power Factorization: 64%	321/500 [01:28<00:53, 3.35it/s]
Power Factorization: 64%	322/500 [01:29<00:51, 3.43it/s]
Power Factorization: 65%	323/500 [01:29<00:49, 3.59it/s]
Power Factorization: 65%	324/500 [01:29<00:46, 3.79it/s]
Power Factorization: 65%	325/500 [01:29<00:46, 3.79it/s]
Power Factorization: 65%	326/500 [01:30<00:47, 3.64it/s]
Power Factorization: 65%	327/500 [01:30<00:47, 3.67it/s]
Power Factorization: 66%	328/500 [01:30<00:43, 3.95it/s]
Power Factorization: 66%	329/500 [01:30<00:42, 4.03it/s]
Power Factorization: 66%	330/500 [01:31<00:40, 4.20it/s]
Power Factorization: 66%	331/500 [01:31<00:40, 4.13it/s]
Power Factorization: 66%	332/500 [01:31<00:42, 3.99it/s]
Power Factorization: 67%	333/500 [01:31<00:39, 4.21it/s]
Power Factorization: 67%	334/500 [01:32<00:41, 4.00it/s]
Power Factorization: 67%	335/500 [01:32<00:43, 3.75it/s]
Power Factorization: 67%	336/500 [01:32<00:42, 3.83it/s]
Power Factorization: 67%	337/500 [01:32<00:41, 3.89it/s]

Power Factorization: 68%	338/500 [01:33<00:39, 4.07it/s]
Power Factorization: 68%	339/500 [01:33<00:41, 3.87it/s]
Power Factorization: 68%	340/500 [01:33<00:40, 3.94it/s]
Power Factorization: 68%	341/500 [01:34<00:54, 2.93it/s]
Power Factorization: 68%	342/500 [01:34<00:47, 3.30it/s]
Power Factorization: 69%	343/500 [01:34<00:43, 3.58it/s]
Power Factorization: 69%	344/500 [01:34<00:41, 3.78it/s]
Power Factorization: 69%	345/500 [01:35<00:44, 3.46it/s]
Power Factorization: 69%	346/500 [01:35<00:49, 3.14it/s]
Power Factorization: 69%	347/500 [01:35<00:44, 3.42it/s]
Power Factorization: 70%	348/500 [01:36<00:44, 3.39it/s]
Power Factorization: 70%	349/500 [01:36<00:42, 3.52it/s]
Power Factorization: 70%	350/500 [01:36<00:41, 3.63it/s]
Power Factorization: 70%	351/500 [01:36<00:40, 3.69it/s]
Power Factorization: 70%	352/500 [01:37<00:38, 3.89it/s]
Power Factorization: 71%	353/500 [01:37<00:44, 3.31it/s]
Power Factorization: 71%	354/500 [01:37<00:40, 3.59it/s]
Power Factorization: 71%	355/500 [01:38<00:40, 3.61it/s]
Power Factorization: 71%	356/500 [01:38<00:36, 3.93it/s]
Power Factorization: 71%	357/500 [01:38<00:36, 3.87it/s]
Power Factorization: 72%	358/500 [01:38<00:36, 3.88it/s]
Power Factorization: 72%	359/500 [01:39<00:35, 3.97it/s]
Power Factorization: 72%	360/500 [01:39<00:33, 4.23it/s]
Power Factorization: 72%	361/500 [01:39<00:33, 4.12it/s]

Power Factorization: 72%	362/500 [01:39<00:35,	3.93it/s]
Power Factorization: 73%	363/500 [01:40<00:38,	3.59it/s]
Power Factorization: 73%	364/500 [01:40<00:37,	3.64it/s]
Power Factorization: 73%	365/500 [01:40<00:37,	3.60it/s]
Power Factorization: 73%	366/500 [01:40<00:35,	3.81it/s]
Power Factorization: 73%	367/500 [01:41<00:36,	3.68it/s]
Power Factorization: 74%	368/500 [01:41<00:35,	3.72it/s]
Power Factorization: 74%	369/500 [01:41<00:36,	3.63it/s]
Power Factorization: 74%	370/500 [01:41<00:34,	3.80it/s]
Power Factorization: 74%	371/500 [01:42<00:34,	3.79it/s]
Power Factorization: 74%	372/500 [01:42<00:34,	3.69it/s]
Power Factorization: 75%	373/500 [01:42<00:33,	3.74it/s]
Power Factorization: 75%	374/500 [01:42<00:32,	3.88it/s]
Power Factorization: 75%	375/500 [01:43<00:32,	3.91it/s]
Power Factorization: 75%	376/500 [01:43<00:30,	4.12it/s]
Power Factorization: 75%	377/500 [01:43<00:30,	4.03it/s]
Power Factorization: 76%	378/500 [01:43<00:30,	3.96it/s]
Power Factorization: 76%	379/500 [01:44<00:31,	3.79it/s]
Power Factorization: 76%	380/500 [01:44<00:36,	3.32it/s]
Power Factorization: 76%	381/500 [01:44<00:34,	3.50it/s]
Power Factorization: 76%	382/500 [01:45<00:33,	3.51it/s]
Power Factorization: 77%	383/500 [01:45<00:31,	3.77it/s]
Power Factorization: 77%	384/500 [01:45<00:28,	4.03it/s]
Power Factorization: 77%	385/500 [01:45<00:28,	4.06it/s]

Power Factorization: 77%	386/500 [01:46<00:27, 4.20it/s]
Power Factorization: 77%	387/500 [01:46<00:25, 4.49it/s]
Power Factorization: 78%	388/500 [01:46<00:26, 4.22it/s]
Power Factorization: 78%	389/500 [01:46<00:25, 4.37it/s]
Power Factorization: 78%	390/500 [01:46<00:25, 4.31it/s]
Power Factorization: 78%	391/500 [01:47<00:26, 4.08it/s]
Power Factorization: 78%	392/500 [01:47<00:27, 4.00it/s]
Power Factorization: 79%	393/500 [01:47<00:26, 4.08it/s]
Power Factorization: 79%	394/500 [01:48<00:31, 3.35it/s]
Power Factorization: 79%	395/500 [01:48<00:33, 3.11it/s]
Power Factorization: 79%	396/500 [01:48<00:30, 3.37it/s]
Power Factorization: 79%	397/500 [01:49<00:30, 3.33it/s]
Power Factorization: 80%	398/500 [01:49<00:28, 3.62it/s]
Power Factorization: 80%	399/500 [01:49<00:26, 3.88it/s]
Power Factorization: 80%	400/500 [01:49<00:24, 4.03it/s]
Power Factorization: 80%	401/500 [01:50<00:24, 4.03it/s]
Power Factorization: 80%	402/500 [01:50<00:24, 4.04it/s]
Power Factorization: 81%	403/500 [01:50<00:24, 3.93it/s]
Power Factorization: 81%	404/500 [01:50<00:23, 4.02it/s]
Power Factorization: 81%	405/500 [01:51<00:23, 4.05it/s]
Power Factorization: 81%	406/500 [01:51<00:23, 3.96it/s]
Power Factorization: 81%	407/500 [01:51<00:22, 4.16it/s]
Power Factorization: 82%	408/500 [01:51<00:22, 4.03it/s]
Power Factorization: 82%	409/500 [01:52<00:23, 3.92it/s]

Power Factorization: 82%	410/500 [01:52<00:26,	3.35it/s]
Power Factorization: 82%	411/500 [01:52<00:25,	3.54it/s]
Power Factorization: 82%	412/500 [01:52<00:23,	3.71it/s]
Power Factorization: 83%	413/500 [01:53<00:23,	3.71it/s]
Power Factorization: 83%	414/500 [01:53<00:22,	3.81it/s]
Power Factorization: 83%	415/500 [01:53<00:24,	3.47it/s]
Power Factorization: 83%	416/500 [01:54<00:23,	3.63it/s]
Power Factorization: 83%	417/500 [01:54<00:21,	3.88it/s]
Power Factorization: 84%	418/500 [01:54<00:21,	3.79it/s]
Power Factorization: 84%	419/500 [01:54<00:20,	3.98it/s]
Power Factorization: 84%	420/500 [01:55<00:20,	3.84it/s]
Power Factorization: 84%	421/500 [01:55<00:20,	3.82it/s]
Power Factorization: 84%	422/500 [01:55<00:21,	3.68it/s]
Power Factorization: 85%	423/500 [01:55<00:20,	3.79it/s]
Power Factorization: 85%	424/500 [01:56<00:20,	3.70it/s]
Power Factorization: 85%	425/500 [01:56<00:19,	3.87it/s]
Power Factorization: 85%	426/500 [01:56<00:19,	3.85it/s]
Power Factorization: 85%	427/500 [01:56<00:18,	3.85it/s]
Power Factorization: 86%	428/500 [01:57<00:18,	3.85it/s]
Power Factorization: 86%	429/500 [01:57<00:20,	3.47it/s]
Power Factorization: 86%	430/500 [01:57<00:19,	3.60it/s]
Power Factorization: 86%	431/500 [01:57<00:18,	3.67it/s]
Power Factorization: 86%	432/500 [01:58<00:18,	3.63it/s]
Power Factorization: 87%	433/500 [01:58<00:18,	3.56it/s]

Power Factorization: 87%	434/500 [01:58<00:17,	3.71it/s]
Power Factorization: 87%	435/500 [01:59<00:16,	3.90it/s]
Power Factorization: 87%	436/500 [01:59<00:17,	3.73it/s]
Power Factorization: 87%	437/500 [01:59<00:16,	3.79it/s]
Power Factorization: 88%	438/500 [01:59<00:15,	3.94it/s]
Power Factorization: 88%	439/500 [02:00<00:15,	3.90it/s]
Power Factorization: 88%	440/500 [02:00<00:15,	3.90it/s]
Power Factorization: 88%	441/500 [02:00<00:15,	3.80it/s]
Power Factorization: 88%	442/500 [02:00<00:14,	3.87it/s]
Power Factorization: 89%	443/500 [02:01<00:14,	3.95it/s]
Power Factorization: 89%	444/500 [02:01<00:18,	3.01it/s]
Power Factorization: 89%	445/500 [02:01<00:16,	3.38it/s]
Power Factorization: 89%	446/500 [02:02<00:15,	3.58it/s]
Power Factorization: 89%	447/500 [02:02<00:14,	3.64it/s]
Power Factorization: 90%	448/500 [02:02<00:14,	3.66it/s]
Power Factorization: 90%	449/500 [02:02<00:13,	3.73it/s]
Power Factorization: 90%	450/500 [02:03<00:13,	3.84it/s]
Power Factorization: 90%	451/500 [02:03<00:12,	3.95it/s]
Power Factorization: 90%	452/500 [02:03<00:12,	3.92it/s]
Power Factorization: 91%	453/500 [02:03<00:11,	3.99it/s]
Power Factorization: 91%	454/500 [02:04<00:11,	4.16it/s]
Power Factorization: 91%	455/500 [02:04<00:11,	3.90it/s]
Power Factorization: 91%	456/500 [02:04<00:11,	3.75it/s]
Power Factorization: 91%	457/500 [02:04<00:11,	3.68it/s]

Power Factorization: 92%	458/500 [02:05<00:11, 3.74it/s]
Power Factorization: 92%	459/500 [02:05<00:10, 4.01it/s]
Power Factorization: 92%	460/500 [02:05<00:10, 3.91it/s]
Power Factorization: 92%	461/500 [02:05<00:09, 4.11it/s]
Power Factorization: 92%	462/500 [02:06<00:09, 4.04it/s]
Power Factorization: 93%	463/500 [02:06<00:09, 3.83it/s]
Power Factorization: 93%	464/500 [02:06<00:10, 3.39it/s]
Power Factorization: 93%	465/500 [02:07<00:10, 3.32it/s]
Power Factorization: 93%	466/500 [02:07<00:10, 3.21it/s]
Power Factorization: 93%	467/500 [02:07<00:09, 3.39it/s]
Power Factorization: 94%	468/500 [02:07<00:09, 3.51it/s]
Power Factorization: 94%	469/500 [02:08<00:08, 3.63it/s]
Power Factorization: 94%	470/500 [02:08<00:07, 3.91it/s]
Power Factorization: 94%	471/500 [02:08<00:07, 3.90it/s]
Power Factorization: 94%	472/500 [02:08<00:07, 3.92it/s]
Power Factorization: 95%	473/500 [02:09<00:06, 3.91it/s]
Power Factorization: 95%	474/500 [02:09<00:07, 3.53it/s]
Power Factorization: 95%	475/500 [02:09<00:07, 3.47it/s]
Power Factorization: 95%	476/500 [02:10<00:07, 3.38it/s]
Power Factorization: 95%	477/500 [02:10<00:06, 3.39it/s]
Power Factorization: 96%	478/500 [02:10<00:06, 3.41it/s]
Power Factorization: 96%	479/500 [02:10<00:05, 3.58it/s]
Power Factorization: 96%	480/500 [02:11<00:05, 3.65it/s]
Power Factorization: 96%	481/500 [02:11<00:04, 3.98it/s]

Power Factorization: 96%	482/500 [02:11<00:04, 4.10it/s]
Power Factorization: 97%	483/500 [02:11<00:04, 4.13it/s]
Power Factorization: 97%	484/500 [02:12<00:04, 3.53it/s]
Power Factorization: 97%	485/500 [02:12<00:04, 3.34it/s]
Power Factorization: 97%	486/500 [02:12<00:03, 3.56it/s]
Power Factorization: 97%	487/500 [02:13<00:03, 3.81it/s]
Power Factorization: 98%	488/500 [02:13<00:03, 3.96it/s]
Power Factorization: 98%	489/500 [02:13<00:03, 3.33it/s]
Power Factorization: 98%	490/500 [02:14<00:02, 3.37it/s]
Power Factorization: 98%	491/500 [02:14<00:02, 3.22it/s]
Power Factorization: 98%	492/500 [02:14<00:02, 3.45it/s]
Power Factorization: 99%	493/500 [02:14<00:02, 3.42it/s]
Power Factorization: 99%	494/500 [02:15<00:01, 3.44it/s]
Power Factorization: 99%	495/500 [02:15<00:01, 3.50it/s]
Power Factorization: 99%	496/500 [02:15<00:01, 3.62it/s]
Power Factorization: 99%	497/500 [02:15<00:00, 3.80it/s]
Power Factorization: 100%	498/500 [02:16<00:00, 3.94it/s]
Power Factorization: 100%	499/500 [02:16<00:00, 3.81it/s]
Power Factorization: 100%	500/500 [02:16<00:00, 3.66it/s]
Cross Validation: 20%	1/5 [02:16<09:07, 136.81s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<01:55, 4.34it/s]
Power Factorization: 0%	2/500 [00:00<02:01, 4.11it/s]
Power Factorization: 1%	3/500 [00:00<02:03, 4.02it/s]

Power Factorization:	1%	4/500 [00:00<01:58, 4.17it/s]
Power Factorization:	1%	5/500 [00:01<01:52, 4.39it/s]
Power Factorization:	1%	6/500 [00:01<01:58, 4.17it/s]
Power Factorization:	1%	7/500 [00:01<01:59, 4.14it/s]
Power Factorization:	2%	8/500 [00:01<02:10, 3.77it/s]
Power Factorization:	2%	9/500 [00:02<02:19, 3.53it/s]
Power Factorization:	2%	10/500 [00:02<02:13, 3.66it/s]
Power Factorization:	2%	11/500 [00:02<02:05, 3.88it/s]
Power Factorization:	2%	12/500 [00:03<02:06, 3.87it/s]
Power Factorization:	3%	13/500 [00:03<02:05, 3.87it/s]
Power Factorization:	3%	14/500 [00:03<02:02, 3.98it/s]
Power Factorization:	3%	15/500 [00:03<02:05, 3.88it/s]
Power Factorization:	3%	16/500 [00:04<02:10, 3.72it/s]
Power Factorization:	3%	17/500 [00:04<02:23, 3.37it/s]
Power Factorization:	4%	18/500 [00:04<02:33, 3.14it/s]
Power Factorization:	4%	19/500 [00:05<02:20, 3.44it/s]
Power Factorization:	4%	20/500 [00:05<02:10, 3.67it/s]
Power Factorization:	4%	21/500 [00:05<02:03, 3.88it/s]
Power Factorization:	4%	22/500 [00:05<02:05, 3.80it/s]
Power Factorization:	5%	23/500 [00:06<02:05, 3.81it/s]
Power Factorization:	5%	24/500 [00:06<02:14, 3.54it/s]
Power Factorization:	5%	25/500 [00:06<02:10, 3.63it/s]
Power Factorization:	5%	26/500 [00:06<02:05, 3.77it/s]
Power Factorization:	5%	27/500 [00:07<02:06, 3.75it/s]

Power Factorization:	6%	28/500	[00:07<02:03,	3.81it/s]
Power Factorization:	6%	29/500	[00:07<02:01,	3.86it/s]
Power Factorization:	6%	30/500	[00:07<02:00,	3.89it/s]
Power Factorization:	6%	31/500	[00:08<01:56,	4.03it/s]
Power Factorization:	6%	32/500	[00:08<02:02,	3.83it/s]
Power Factorization:	7%	33/500	[00:08<02:41,	2.89it/s]
Power Factorization:	7%	34/500	[00:09<02:34,	3.02it/s]
Power Factorization:	7%	35/500	[00:09<02:23,	3.25it/s]
Power Factorization:	7%	36/500	[00:09<02:12,	3.51it/s]
Power Factorization:	7%	37/500	[00:09<02:02,	3.77it/s]
Power Factorization:	8%	38/500	[00:10<01:53,	4.07it/s]
Power Factorization:	8%	39/500	[00:10<01:52,	4.10it/s]
Power Factorization:	8%	40/500	[00:10<01:52,	4.10it/s]
Power Factorization:	8%	41/500	[00:10<01:51,	4.12it/s]
Power Factorization:	8%	42/500	[00:11<01:51,	4.11it/s]
Power Factorization:	9%	43/500	[00:11<01:49,	4.18it/s]
Power Factorization:	9%	44/500	[00:11<01:53,	4.00it/s]
Power Factorization:	9%	45/500	[00:12<02:32,	2.99it/s]
Power Factorization:	9%	46/500	[00:12<03:03,	2.47it/s]
Power Factorization:	9%	47/500	[00:13<02:43,	2.78it/s]
Power Factorization:	10%	48/500	[00:13<02:25,	3.10it/s]
Power Factorization:	10%	49/500	[00:13<02:18,	3.25it/s]
Power Factorization:	10%	50/500	[00:13<02:13,	3.37it/s]
Power Factorization:	10%	51/500	[00:14<02:05,	3.57it/s]

Power Factorization: 10%	52/500 [00:14<02:01, 3.70it/s]
Power Factorization: 11%	53/500 [00:14<02:07, 3.50it/s]
Power Factorization: 11%	54/500 [00:14<01:56, 3.83it/s]
Power Factorization: 11%	55/500 [00:15<01:56, 3.83it/s]
Power Factorization: 11%	56/500 [00:15<01:54, 3.88it/s]
Power Factorization: 11%	57/500 [00:15<01:56, 3.80it/s]
Power Factorization: 12%	58/500 [00:15<01:52, 3.93it/s]
Power Factorization: 12%	59/500 [00:16<01:50, 3.97it/s]
Power Factorization: 12%	60/500 [00:16<01:54, 3.83it/s]
Power Factorization: 12%	61/500 [00:16<01:56, 3.78it/s]
Power Factorization: 12%	62/500 [00:16<01:58, 3.70it/s]
Power Factorization: 13%	63/500 [00:17<01:55, 3.80it/s]
Power Factorization: 13%	64/500 [00:17<01:54, 3.80it/s]
Power Factorization: 13%	65/500 [00:18<02:44, 2.65it/s]
Power Factorization: 13%	66/500 [00:18<02:29, 2.91it/s]
Power Factorization: 13%	67/500 [00:18<02:19, 3.11it/s]
Power Factorization: 14%	68/500 [00:18<02:07, 3.38it/s]
Power Factorization: 14%	69/500 [00:19<02:05, 3.44it/s]
Power Factorization: 14%	70/500 [00:19<01:58, 3.62it/s]
Power Factorization: 14%	71/500 [00:19<02:00, 3.56it/s]
Power Factorization: 14%	72/500 [00:19<01:58, 3.60it/s]
Power Factorization: 15%	73/500 [00:20<01:59, 3.58it/s]
Power Factorization: 15%	74/500 [00:20<02:00, 3.54it/s]
Power Factorization: 15%	75/500 [00:20<01:55, 3.68it/s]

Power Factorization: 15%	76/500 [00:21<01:55, 3.68it/s]
Power Factorization: 15%	77/500 [00:21<01:50, 3.82it/s]
Power Factorization: 16%	78/500 [00:21<01:49, 3.86it/s]
Power Factorization: 16%	79/500 [00:21<01:58, 3.56it/s]
Power Factorization: 16%	80/500 [00:22<01:57, 3.57it/s]
Power Factorization: 16%	81/500 [00:22<02:01, 3.44it/s]
Power Factorization: 16%	82/500 [00:22<02:17, 3.04it/s]
Power Factorization: 17%	83/500 [00:23<02:10, 3.20it/s]
Power Factorization: 17%	84/500 [00:23<02:23, 2.91it/s]
Power Factorization: 17%	85/500 [00:23<02:11, 3.16it/s]
Power Factorization: 17%	86/500 [00:24<02:02, 3.38it/s]
Power Factorization: 17%	87/500 [00:24<02:04, 3.33it/s]
Power Factorization: 18%	88/500 [00:24<01:58, 3.49it/s]
Power Factorization: 18%	89/500 [00:24<01:58, 3.47it/s]
Power Factorization: 18%	90/500 [00:25<01:58, 3.45it/s]
Power Factorization: 18%	91/500 [00:25<02:01, 3.37it/s]
Power Factorization: 18%	92/500 [00:25<01:57, 3.47it/s]
Power Factorization: 19%	93/500 [00:26<01:59, 3.42it/s]
Power Factorization: 19%	94/500 [00:26<01:56, 3.48it/s]
Power Factorization: 19%	95/500 [00:26<01:56, 3.48it/s]
Power Factorization: 19%	96/500 [00:27<02:07, 3.16it/s]
Power Factorization: 19%	97/500 [00:27<02:04, 3.24it/s]
Power Factorization: 20%	98/500 [00:27<02:02, 3.28it/s]
Power Factorization: 20%	99/500 [00:27<01:51, 3.60it/s]

Power Factorization: 20%	100/500 [00:28<02:04, 3.21it/s]
Power Factorization: 20%	101/500 [00:28<02:08, 3.11it/s]
Power Factorization: 20%	102/500 [00:28<02:12, 3.01it/s]
Power Factorization: 21%	103/500 [00:29<02:14, 2.95it/s]
Power Factorization: 21%	104/500 [00:29<02:05, 3.16it/s]
Power Factorization: 21%	105/500 [00:29<01:53, 3.47it/s]
Power Factorization: 21%	106/500 [00:29<01:48, 3.64it/s]
Power Factorization: 21%	107/500 [00:30<01:43, 3.79it/s]
Power Factorization: 22%	108/500 [00:30<01:42, 3.84it/s]
Power Factorization: 22%	109/500 [00:30<01:41, 3.85it/s]
Power Factorization: 22%	110/500 [00:31<01:49, 3.57it/s]
Power Factorization: 22%	111/500 [00:31<01:50, 3.51it/s]
Power Factorization: 22%	112/500 [00:31<01:57, 3.30it/s]
Power Factorization: 23%	113/500 [00:31<01:52, 3.43it/s]
Power Factorization: 23%	114/500 [00:32<02:34, 2.50it/s]
Power Factorization: 23%	115/500 [00:32<02:16, 2.82it/s]
Power Factorization: 23%	116/500 [00:33<02:07, 3.00it/s]
Power Factorization: 23%	117/500 [00:33<02:03, 3.10it/s]
Power Factorization: 24%	118/500 [00:33<01:56, 3.29it/s]
Power Factorization: 24%	119/500 [00:34<01:59, 3.19it/s]
Power Factorization: 24%	120/500 [00:34<02:03, 3.08it/s]
Power Factorization: 24%	121/500 [00:34<02:11, 2.88it/s]
Power Factorization: 24%	122/500 [00:35<02:03, 3.06it/s]
Power Factorization: 25%	123/500 [00:35<01:54, 3.30it/s]

Power Factorization: 25%	124/500 [00:35<01:47, 3.51it/s]
Power Factorization: 25%	125/500 [00:35<01:46, 3.52it/s]
Power Factorization: 25%	126/500 [00:36<01:48, 3.44it/s]
Power Factorization: 25%	127/500 [00:36<01:45, 3.55it/s]
Power Factorization: 26%	128/500 [00:36<01:45, 3.51it/s]
Power Factorization: 26%	129/500 [00:37<01:45, 3.50it/s]
Power Factorization: 26%	130/500 [00:37<01:44, 3.54it/s]
Power Factorization: 26%	131/500 [00:37<01:40, 3.69it/s]
Power Factorization: 26%	132/500 [00:37<01:40, 3.67it/s]
Power Factorization: 27%	133/500 [00:38<01:41, 3.62it/s]
Power Factorization: 27%	134/500 [00:38<01:39, 3.67it/s]
Power Factorization: 27%	135/500 [00:38<01:45, 3.47it/s]
Power Factorization: 27%	136/500 [00:38<01:40, 3.61it/s]
Power Factorization: 27%	137/500 [00:39<01:39, 3.64it/s]
Power Factorization: 28%	138/500 [00:39<01:40, 3.61it/s]
Power Factorization: 28%	139/500 [00:39<01:40, 3.59it/s]
Power Factorization: 28%	140/500 [00:40<01:36, 3.73it/s]
Power Factorization: 28%	141/500 [00:40<01:33, 3.83it/s]
Power Factorization: 28%	142/500 [00:40<01:29, 3.99it/s]
Power Factorization: 29%	143/500 [00:40<01:27, 4.09it/s]
Power Factorization: 29%	144/500 [00:40<01:31, 3.88it/s]
Power Factorization: 29%	145/500 [00:41<01:32, 3.83it/s]
Power Factorization: 29%	146/500 [00:41<01:37, 3.63it/s]
Power Factorization: 29%	147/500 [00:41<01:45, 3.36it/s]

Power Factorization: 30%	148/500 [00:42<01:43, 3.39it/s]
Power Factorization: 30%	149/500 [00:42<01:38, 3.55it/s]
Power Factorization: 30%	150/500 [00:42<01:35, 3.67it/s]
Power Factorization: 30%	151/500 [00:42<01:33, 3.75it/s]
Power Factorization: 30%	152/500 [00:43<01:31, 3.82it/s]
Power Factorization: 31%	153/500 [00:43<01:31, 3.81it/s]
Power Factorization: 31%	154/500 [00:43<01:30, 3.84it/s]
Power Factorization: 31%	155/500 [00:43<01:29, 3.86it/s]
Power Factorization: 31%	156/500 [00:44<01:44, 3.30it/s]
Power Factorization: 31%	157/500 [00:44<01:48, 3.16it/s]
Power Factorization: 32%	158/500 [00:44<01:39, 3.44it/s]
Power Factorization: 32%	159/500 [00:45<01:38, 3.45it/s]
Power Factorization: 32%	160/500 [00:45<01:35, 3.55it/s]
Power Factorization: 32%	161/500 [00:45<01:31, 3.72it/s]
Power Factorization: 32%	162/500 [00:45<01:27, 3.88it/s]
Power Factorization: 33%	163/500 [00:46<01:40, 3.34it/s]
Power Factorization: 33%	164/500 [00:46<01:50, 3.05it/s]
Power Factorization: 33%	165/500 [00:47<02:02, 2.74it/s]
Power Factorization: 33%	166/500 [00:47<01:46, 3.12it/s]
Power Factorization: 33%	167/500 [00:47<01:34, 3.52it/s]
Power Factorization: 34%	168/500 [00:47<01:27, 3.78it/s]
Power Factorization: 34%	169/500 [00:48<01:27, 3.79it/s]
Power Factorization: 34%	170/500 [00:48<01:26, 3.82it/s]
Power Factorization: 34%	171/500 [00:48<01:22, 3.99it/s]

Power Factorization: 34%	172/500 [00:48<01:24,	3.90it/s]
Power Factorization: 35%	173/500 [00:49<01:22,	3.95it/s]
Power Factorization: 35%	174/500 [00:49<01:24,	3.87it/s]
Power Factorization: 35%	175/500 [00:49<01:24,	3.86it/s]
Power Factorization: 35%	176/500 [00:49<01:23,	3.88it/s]
Power Factorization: 35%	177/500 [00:50<01:18,	4.10it/s]
Power Factorization: 36%	178/500 [00:50<01:19,	4.05it/s]
Power Factorization: 36%	179/500 [00:50<01:15,	4.24it/s]
Power Factorization: 36%	180/500 [00:50<01:24,	3.80it/s]
Power Factorization: 36%	181/500 [00:51<01:33,	3.42it/s]
Power Factorization: 36%	182/500 [00:51<01:26,	3.67it/s]
Power Factorization: 37%	183/500 [00:51<01:25,	3.73it/s]
Power Factorization: 37%	184/500 [00:52<01:30,	3.47it/s]
Power Factorization: 37%	185/500 [00:52<01:30,	3.47it/s]
Power Factorization: 37%	186/500 [00:52<01:23,	3.74it/s]
Power Factorization: 37%	187/500 [00:52<01:25,	3.67it/s]
Power Factorization: 38%	188/500 [00:53<01:20,	3.87it/s]
Power Factorization: 38%	189/500 [00:53<01:20,	3.86it/s]
Power Factorization: 38%	190/500 [00:53<01:17,	3.98it/s]
Power Factorization: 38%	191/500 [00:54<01:51,	2.78it/s]
Power Factorization: 38%	192/500 [00:54<01:39,	3.09it/s]
Power Factorization: 39%	193/500 [00:54<01:30,	3.40it/s]
Power Factorization: 39%	194/500 [00:54<01:25,	3.58it/s]
Power Factorization: 39%	195/500 [00:55<01:19,	3.83it/s]

Power Factorization: 39%	196/500 [00:55<01:22, 3.69it/s]
Power Factorization: 39%	197/500 [00:55<01:21, 3.73it/s]
Power Factorization: 40%	198/500 [00:56<01:32, 3.25it/s]
Power Factorization: 40%	199/500 [00:56<01:40, 2.99it/s]
Power Factorization: 40%	200/500 [00:56<01:32, 3.24it/s]
Power Factorization: 40%	201/500 [00:57<01:31, 3.26it/s]
Power Factorization: 40%	202/500 [00:57<01:31, 3.25it/s]
Power Factorization: 41%	203/500 [00:57<01:27, 3.38it/s]
Power Factorization: 41%	204/500 [00:57<01:23, 3.55it/s]
Power Factorization: 41%	205/500 [00:58<01:19, 3.72it/s]
Power Factorization: 41%	206/500 [00:58<01:13, 3.99it/s]
Power Factorization: 41%	207/500 [00:58<01:18, 3.74it/s]
Power Factorization: 42%	208/500 [00:58<01:23, 3.51it/s]
Power Factorization: 42%	209/500 [00:59<01:20, 3.60it/s]
Power Factorization: 42%	210/500 [00:59<01:19, 3.66it/s]
Power Factorization: 42%	211/500 [00:59<01:19, 3.64it/s]
Power Factorization: 42%	212/500 [00:59<01:13, 3.94it/s]
Power Factorization: 43%	213/500 [01:00<01:12, 3.96it/s]
Power Factorization: 43%	214/500 [01:00<01:10, 4.07it/s]
Power Factorization: 43%	215/500 [01:00<01:11, 3.98it/s]
Power Factorization: 43%	216/500 [01:00<01:12, 3.94it/s]
Power Factorization: 43%	217/500 [01:01<01:12, 3.88it/s]
Power Factorization: 44%	218/500 [01:01<01:09, 4.08it/s]
Power Factorization: 44%	219/500 [01:01<01:07, 4.18it/s]

Power Factorization: 44%	220/500 [01:01<01:07, 4.15it/s]
Power Factorization: 44%	221/500 [01:02<01:07, 4.11it/s]
Power Factorization: 44%	222/500 [01:02<01:13, 3.77it/s]
Power Factorization: 45%	223/500 [01:02<01:10, 3.93it/s]
Power Factorization: 45%	224/500 [01:03<01:15, 3.67it/s]
Power Factorization: 45%	225/500 [01:03<01:14, 3.70it/s]
Power Factorization: 45%	226/500 [01:03<01:12, 3.77it/s]
Power Factorization: 45%	227/500 [01:03<01:11, 3.84it/s]
Power Factorization: 46%	228/500 [01:04<01:11, 3.82it/s]
Power Factorization: 46%	229/500 [01:04<01:09, 3.90it/s]
Power Factorization: 46%	230/500 [01:04<01:09, 3.91it/s]
Power Factorization: 46%	231/500 [01:04<01:05, 4.10it/s]
Power Factorization: 46%	232/500 [01:04<01:02, 4.27it/s]
Power Factorization: 47%	233/500 [01:05<01:04, 4.16it/s]
Power Factorization: 47%	234/500 [01:05<01:03, 4.16it/s]
Power Factorization: 47%	235/500 [01:05<01:04, 4.10it/s]
Power Factorization: 47%	236/500 [01:05<01:02, 4.23it/s]
Power Factorization: 47%	237/500 [01:06<01:02, 4.18it/s]
Power Factorization: 48%	238/500 [01:06<01:04, 4.06it/s]
Power Factorization: 48%	239/500 [01:06<01:15, 3.47it/s]
Power Factorization: 48%	240/500 [01:07<01:21, 3.20it/s]
Power Factorization: 48%	241/500 [01:07<01:19, 3.26it/s]
Power Factorization: 48%	242/500 [01:07<01:16, 3.36it/s]
Power Factorization: 49%	243/500 [01:08<01:22, 3.13it/s]

Power Factorization: 49%	244/500 [01:08<01:26, 2.97it/s]
Power Factorization: 49%	245/500 [01:08<01:18, 3.23it/s]
Power Factorization: 49%	246/500 [01:09<01:13, 3.45it/s]
Power Factorization: 49%	247/500 [01:09<01:10, 3.59it/s]
Power Factorization: 50%	248/500 [01:09<01:06, 3.79it/s]
Power Factorization: 50%	249/500 [01:09<01:02, 4.04it/s]
Power Factorization: 50%	250/500 [01:09<00:59, 4.21it/s]
Power Factorization: 50%	251/500 [01:10<00:59, 4.17it/s]
Power Factorization: 50%	252/500 [01:10<00:57, 4.32it/s]
Power Factorization: 51%	253/500 [01:10<00:59, 4.16it/s]
Power Factorization: 51%	254/500 [01:10<01:00, 4.07it/s]
Power Factorization: 51%	255/500 [01:11<01:00, 4.02it/s]
Power Factorization: 51%	256/500 [01:11<01:02, 3.90it/s]
Power Factorization: 51%	257/500 [01:11<01:09, 3.49it/s]
Power Factorization: 52%	258/500 [01:12<01:08, 3.55it/s]
Power Factorization: 52%	259/500 [01:12<01:06, 3.62it/s]
Power Factorization: 52%	260/500 [01:12<01:03, 3.79it/s]
Power Factorization: 52%	261/500 [01:12<01:02, 3.82it/s]
Power Factorization: 52%	262/500 [01:13<01:03, 3.76it/s]
Power Factorization: 53%	263/500 [01:13<01:06, 3.54it/s]
Power Factorization: 53%	264/500 [01:13<01:05, 3.63it/s]
Power Factorization: 53%	265/500 [01:13<01:04, 3.65it/s]
Power Factorization: 53%	266/500 [01:14<01:04, 3.62it/s]
Power Factorization: 53%	267/500 [01:14<01:04, 3.62it/s]

Power Factorization: 54%	268/500 [01:14<01:11, 3.22it/s]
Power Factorization: 54%	269/500 [01:15<01:14, 3.09it/s]
Power Factorization: 54%	270/500 [01:15<01:17, 2.98it/s]
Power Factorization: 54%	271/500 [01:15<01:14, 3.09it/s]
Power Factorization: 54%	272/500 [01:16<01:08, 3.31it/s]
Power Factorization: 55%	273/500 [01:16<01:04, 3.53it/s]
Power Factorization: 55%	274/500 [01:16<01:01, 3.66it/s]
Power Factorization: 55%	275/500 [01:16<01:00, 3.74it/s]
Power Factorization: 55%	276/500 [01:17<00:56, 4.00it/s]
Power Factorization: 55%	277/500 [01:17<00:57, 3.89it/s]
Power Factorization: 56%	278/500 [01:17<00:57, 3.84it/s]
Power Factorization: 56%	279/500 [01:17<01:00, 3.66it/s]
Power Factorization: 56%	280/500 [01:18<01:06, 3.33it/s]
Power Factorization: 56%	281/500 [01:18<01:04, 3.39it/s]
Power Factorization: 56%	282/500 [01:18<01:01, 3.54it/s]
Power Factorization: 57%	283/500 [01:19<01:02, 3.45it/s]
Power Factorization: 57%	284/500 [01:19<01:13, 2.95it/s]
Power Factorization: 57%	285/500 [01:19<01:10, 3.04it/s]
Power Factorization: 57%	286/500 [01:20<01:07, 3.18it/s]
Power Factorization: 57%	287/500 [01:20<01:01, 3.45it/s]
Power Factorization: 58%	288/500 [01:20<00:59, 3.54it/s]
Power Factorization: 58%	289/500 [01:20<00:57, 3.67it/s]
Power Factorization: 58%	290/500 [01:21<00:59, 3.52it/s]
Power Factorization: 58%	291/500 [01:21<01:04, 3.23it/s]

Power Factorization: 58%	292/500 [01:21<01:05, 3.19it/s]
Power Factorization: 59%	293/500 [01:22<01:04, 3.19it/s]
Power Factorization: 59%	294/500 [01:22<01:06, 3.09it/s]
Power Factorization: 59%	295/500 [01:22<01:02, 3.28it/s]
Power Factorization: 59%	296/500 [01:23<00:59, 3.42it/s]
Power Factorization: 59%	297/500 [01:23<01:01, 3.27it/s]
Power Factorization: 60%	298/500 [01:23<00:59, 3.37it/s]
Power Factorization: 60%	299/500 [01:23<00:56, 3.57it/s]
Power Factorization: 60%	300/500 [01:24<01:03, 3.15it/s]
Power Factorization: 60%	301/500 [01:24<01:02, 3.17it/s]
Power Factorization: 60%	302/500 [01:24<00:58, 3.41it/s]
Power Factorization: 61%	303/500 [01:25<01:13, 2.69it/s]
Power Factorization: 61%	304/500 [01:25<01:10, 2.77it/s]
Power Factorization: 61%	305/500 [01:26<01:06, 2.92it/s]
Power Factorization: 61%	306/500 [01:26<01:04, 2.99it/s]
Power Factorization: 61%	307/500 [01:26<01:03, 3.06it/s]
Power Factorization: 62%	308/500 [01:27<01:04, 3.00it/s]
Power Factorization: 62%	309/500 [01:27<01:00, 3.16it/s]
Power Factorization: 62%	310/500 [01:27<00:57, 3.29it/s]
Power Factorization: 62%	311/500 [01:28<01:01, 3.10it/s]
Power Factorization: 62%	312/500 [01:28<01:05, 2.87it/s]
Power Factorization: 63%	313/500 [01:28<01:01, 3.03it/s]
Power Factorization: 63%	314/500 [01:28<00:57, 3.23it/s]
Power Factorization: 63%	315/500 [01:29<00:56, 3.29it/s]

Power Factorization: 63%	316/500 [01:29<00:55, 3.34it/s]
Power Factorization: 63%	317/500 [01:29<00:51, 3.55it/s]
Power Factorization: 64%	318/500 [01:30<00:49, 3.68it/s]
Power Factorization: 64%	319/500 [01:30<00:47, 3.77it/s]
Power Factorization: 64%	320/500 [01:30<00:49, 3.64it/s]
Power Factorization: 64%	321/500 [01:30<00:46, 3.82it/s]
Power Factorization: 64%	322/500 [01:31<00:45, 3.91it/s]
Power Factorization: 65%	323/500 [01:31<00:59, 3.00it/s]
Power Factorization: 65%	324/500 [01:31<00:56, 3.09it/s]
Power Factorization: 65%	325/500 [01:32<00:56, 3.10it/s]
Power Factorization: 65%	326/500 [01:32<00:53, 3.23it/s]
Power Factorization: 65%	327/500 [01:32<00:51, 3.39it/s]
Power Factorization: 66%	328/500 [01:33<00:49, 3.47it/s]
Power Factorization: 66%	329/500 [01:33<00:45, 3.73it/s]
Power Factorization: 66%	330/500 [01:33<00:44, 3.85it/s]
Power Factorization: 66%	331/500 [01:33<00:43, 3.84it/s]
Power Factorization: 66%	332/500 [01:33<00:42, 3.93it/s]
Power Factorization: 67%	333/500 [01:34<00:42, 3.93it/s]
Power Factorization: 67%	334/500 [01:34<00:41, 3.97it/s]
Power Factorization: 67%	335/500 [01:34<00:42, 3.87it/s]
Power Factorization: 67%	336/500 [01:35<00:41, 3.99it/s]
Power Factorization: 67%	337/500 [01:35<00:42, 3.87it/s]
Power Factorization: 68%	338/500 [01:35<00:49, 3.27it/s]
Power Factorization: 68%	339/500 [01:35<00:48, 3.35it/s]

Power Factorization: 68%	340/500 [01:36<00:44, 3.58it/s]
Power Factorization: 68%	341/500 [01:36<00:43, 3.65it/s]
Power Factorization: 68%	342/500 [01:36<00:41, 3.79it/s]
Power Factorization: 69%	343/500 [01:36<00:40, 3.91it/s]
Power Factorization: 69%	344/500 [01:37<00:41, 3.80it/s]
Power Factorization: 69%	345/500 [01:37<00:38, 3.99it/s]
Power Factorization: 69%	346/500 [01:37<00:39, 3.89it/s]
Power Factorization: 69%	347/500 [01:38<00:42, 3.61it/s]
Power Factorization: 70%	348/500 [01:38<00:45, 3.35it/s]
Power Factorization: 70%	349/500 [01:38<00:44, 3.40it/s]
Power Factorization: 70%	350/500 [01:38<00:43, 3.46it/s]
Power Factorization: 70%	351/500 [01:39<00:41, 3.61it/s]
Power Factorization: 70%	352/500 [01:39<00:38, 3.82it/s]
Power Factorization: 71%	353/500 [01:39<00:37, 3.96it/s]
Power Factorization: 71%	354/500 [01:39<00:38, 3.81it/s]
Power Factorization: 71%	355/500 [01:40<00:36, 3.96it/s]
Power Factorization: 71%	356/500 [01:40<00:35, 4.06it/s]
Power Factorization: 71%	357/500 [01:40<00:35, 4.02it/s]
Power Factorization: 72%	358/500 [01:40<00:35, 4.03it/s]
Power Factorization: 72%	359/500 [01:41<00:35, 4.00it/s]
Power Factorization: 72%	360/500 [01:41<00:36, 3.88it/s]
Power Factorization: 72%	361/500 [01:41<00:35, 3.92it/s]
Power Factorization: 72%	362/500 [01:41<00:36, 3.76it/s]
Power Factorization: 73%	363/500 [01:42<00:36, 3.79it/s]

Power Factorization: 73%	364/500 [01:42<00:34,	3.98it/s]
Power Factorization: 73%	365/500 [01:42<00:35,	3.85it/s]
Power Factorization: 73%	366/500 [01:42<00:34,	3.90it/s]
Power Factorization: 73%	367/500 [01:43<00:36,	3.69it/s]
Power Factorization: 74%	368/500 [01:43<00:36,	3.58it/s]
Power Factorization: 74%	369/500 [01:43<00:35,	3.69it/s]
Power Factorization: 74%	370/500 [01:44<00:33,	3.83it/s]
Power Factorization: 74%	371/500 [01:44<00:33,	3.79it/s]
Power Factorization: 74%	372/500 [01:44<00:34,	3.75it/s]
Power Factorization: 75%	373/500 [01:44<00:31,	4.06it/s]
Power Factorization: 75%	374/500 [01:45<00:31,	4.01it/s]
Power Factorization: 75%	375/500 [01:45<00:31,	3.96it/s]
Power Factorization: 75%	376/500 [01:45<00:31,	3.88it/s]
Power Factorization: 75%	377/500 [01:45<00:30,	4.02it/s]
Power Factorization: 76%	378/500 [01:46<00:29,	4.18it/s]
Power Factorization: 76%	379/500 [01:46<00:30,	3.99it/s]
Power Factorization: 76%	380/500 [01:46<00:28,	4.14it/s]
Power Factorization: 76%	381/500 [01:46<00:32,	3.67it/s]
Power Factorization: 76%	382/500 [01:47<00:30,	3.90it/s]
Power Factorization: 77%	383/500 [01:47<00:30,	3.89it/s]
Power Factorization: 77%	384/500 [01:47<00:30,	3.84it/s]
Power Factorization: 77%	385/500 [01:47<00:28,	4.05it/s]
Power Factorization: 77%	386/500 [01:48<00:25,	4.39it/s]
Power Factorization: 77%	387/500 [01:48<00:26,	4.26it/s]

Power Factorization: 78%	388/500 [01:48<00:28,	4.00it/s]
Power Factorization: 78%	389/500 [01:48<00:30,	3.69it/s]
Power Factorization: 78%	390/500 [01:49<00:30,	3.62it/s]
Power Factorization: 78%	391/500 [01:49<00:28,	3.88it/s]
Power Factorization: 78%	392/500 [01:49<00:27,	3.91it/s]
Power Factorization: 79%	393/500 [01:49<00:27,	3.92it/s]
Power Factorization: 79%	394/500 [01:50<00:26,	3.97it/s]
Power Factorization: 79%	395/500 [01:50<00:25,	4.07it/s]
Power Factorization: 79%	396/500 [01:50<00:26,	3.90it/s]
Power Factorization: 79%	397/500 [01:50<00:28,	3.60it/s]
Power Factorization: 80%	398/500 [01:51<00:28,	3.58it/s]
Power Factorization: 80%	399/500 [01:51<00:27,	3.72it/s]
Power Factorization: 80%	400/500 [01:51<00:26,	3.73it/s]
Power Factorization: 80%	401/500 [01:52<00:25,	3.87it/s]
Power Factorization: 80%	402/500 [01:52<00:25,	3.82it/s]
Power Factorization: 81%	403/500 [01:52<00:24,	3.93it/s]
Power Factorization: 81%	404/500 [01:52<00:24,	3.90it/s]
Power Factorization: 81%	405/500 [01:53<00:24,	3.93it/s]
Power Factorization: 81%	406/500 [01:53<00:24,	3.83it/s]
Power Factorization: 81%	407/500 [01:53<00:25,	3.72it/s]
Power Factorization: 82%	408/500 [01:53<00:23,	3.95it/s]
Power Factorization: 82%	409/500 [01:54<00:22,	4.08it/s]
Power Factorization: 82%	410/500 [01:54<00:23,	3.91it/s]
Power Factorization: 82%	411/500 [01:54<00:22,	3.90it/s]

Power Factorization: 82%	412/500 [01:54<00:21,	4.03it/s]
Power Factorization: 83%	413/500 [01:55<00:22,	3.84it/s]
Power Factorization: 83%	414/500 [01:55<00:22,	3.75it/s]
Power Factorization: 83%	415/500 [01:55<00:21,	3.86it/s]
Power Factorization: 83%	416/500 [01:55<00:21,	3.95it/s]
Power Factorization: 83%	417/500 [01:56<00:20,	4.08it/s]
Power Factorization: 84%	418/500 [01:56<00:20,	4.08it/s]
Power Factorization: 84%	419/500 [01:56<00:20,	3.93it/s]
Power Factorization: 84%	420/500 [01:56<00:19,	4.07it/s]
Power Factorization: 84%	421/500 [01:57<00:20,	3.82it/s]
Power Factorization: 84%	422/500 [01:57<00:21,	3.69it/s]
Power Factorization: 85%	423/500 [01:57<00:19,	3.92it/s]
Power Factorization: 85%	424/500 [01:57<00:19,	3.97it/s]
Power Factorization: 85%	425/500 [01:58<00:18,	4.00it/s]
Power Factorization: 85%	426/500 [01:58<00:17,	4.29it/s]
Power Factorization: 85%	427/500 [01:58<00:17,	4.22it/s]
Power Factorization: 86%	428/500 [01:58<00:17,	4.16it/s]
Power Factorization: 86%	429/500 [01:59<00:18,	3.77it/s]
Power Factorization: 86%	430/500 [01:59<00:18,	3.73it/s]
Power Factorization: 86%	431/500 [01:59<00:20,	3.42it/s]
Power Factorization: 86%	432/500 [02:00<00:18,	3.62it/s]
Power Factorization: 87%	433/500 [02:00<00:17,	3.73it/s]
Power Factorization: 87%	434/500 [02:00<00:17,	3.75it/s]
Power Factorization: 87%	435/500 [02:00<00:17,	3.75it/s]

Power Factorization: 87%	436/500 [02:01<00:17,	3.71it/s]
Power Factorization: 87%	437/500 [02:01<00:16,	3.76it/s]
Power Factorization: 88%	438/500 [02:01<00:15,	3.99it/s]
Power Factorization: 88%	439/500 [02:01<00:16,	3.80it/s]
Power Factorization: 88%	440/500 [02:02<00:16,	3.72it/s]
Power Factorization: 88%	441/500 [02:02<00:16,	3.66it/s]
Power Factorization: 88%	442/500 [02:02<00:15,	3.65it/s]
Power Factorization: 89%	443/500 [02:02<00:16,	3.45it/s]
Power Factorization: 89%	444/500 [02:03<00:16,	3.43it/s]
Power Factorization: 89%	445/500 [02:03<00:15,	3.62it/s]
Power Factorization: 89%	446/500 [02:03<00:15,	3.48it/s]
Power Factorization: 89%	447/500 [02:04<00:16,	3.31it/s]
Power Factorization: 90%	448/500 [02:04<00:15,	3.31it/s]
Power Factorization: 90%	449/500 [02:04<00:16,	3.14it/s]
Power Factorization: 90%	450/500 [02:05<00:15,	3.23it/s]
Power Factorization: 90%	451/500 [02:05<00:15,	3.13it/s]
Power Factorization: 90%	452/500 [02:05<00:14,	3.29it/s]
Power Factorization: 91%	453/500 [02:05<00:13,	3.44it/s]
Power Factorization: 91%	454/500 [02:06<00:12,	3.61it/s]
Power Factorization: 91%	455/500 [02:06<00:12,	3.71it/s]
Power Factorization: 91%	456/500 [02:06<00:11,	3.83it/s]
Power Factorization: 91%	457/500 [02:06<00:11,	3.84it/s]
Power Factorization: 92%	458/500 [02:07<00:11,	3.79it/s]
Power Factorization: 92%	459/500 [02:07<00:10,	3.76it/s]

Power Factorization: 92%	460/500 [02:07<00:10, 3.79it/s]
Power Factorization: 92%	461/500 [02:08<00:11, 3.47it/s]
Power Factorization: 92%	462/500 [02:08<00:11, 3.24it/s]
Power Factorization: 93%	463/500 [02:08<00:10, 3.44it/s]
Power Factorization: 93%	464/500 [02:09<00:10, 3.57it/s]
Power Factorization: 93%	465/500 [02:09<00:09, 3.67it/s]
Power Factorization: 93%	466/500 [02:09<00:09, 3.69it/s]
Power Factorization: 93%	467/500 [02:09<00:08, 3.88it/s]
Power Factorization: 94%	468/500 [02:10<00:10, 3.17it/s]
Power Factorization: 94%	469/500 [02:10<00:09, 3.17it/s]
Power Factorization: 94%	470/500 [02:10<00:09, 3.26it/s]
Power Factorization: 94%	471/500 [02:11<00:08, 3.38it/s]
Power Factorization: 94%	472/500 [02:11<00:08, 3.46it/s]
Power Factorization: 95%	473/500 [02:11<00:07, 3.51it/s]
Power Factorization: 95%	474/500 [02:11<00:07, 3.49it/s]
Power Factorization: 95%	475/500 [02:12<00:07, 3.41it/s]
Power Factorization: 95%	476/500 [02:12<00:07, 3.30it/s]
Power Factorization: 95%	477/500 [02:12<00:06, 3.50it/s]
Power Factorization: 96%	478/500 [02:13<00:06, 3.44it/s]
Power Factorization: 96%	479/500 [02:13<00:05, 3.50it/s]
Power Factorization: 96%	480/500 [02:13<00:05, 3.34it/s]
Power Factorization: 96%	481/500 [02:13<00:05, 3.47it/s]
Power Factorization: 96%	482/500 [02:14<00:04, 3.67it/s]
Power Factorization: 97%	483/500 [02:14<00:04, 3.70it/s]

Power Factorization: 97%	484/500 [02:14<00:04, 3.78it/s]
Power Factorization: 97%	485/500 [02:14<00:04, 3.72it/s]
Power Factorization: 97%	486/500 [02:15<00:03, 3.65it/s]
Power Factorization: 97%	487/500 [02:15<00:03, 3.64it/s]
Power Factorization: 98%	488/500 [02:15<00:03, 3.64it/s]
Power Factorization: 98%	489/500 [02:16<00:03, 3.54it/s]
Power Factorization: 98%	490/500 [02:16<00:02, 3.55it/s]
Power Factorization: 98%	491/500 [02:16<00:02, 3.39it/s]
Power Factorization: 98%	492/500 [02:17<00:02, 3.39it/s]
Power Factorization: 99%	493/500 [02:17<00:01, 3.53it/s]
Power Factorization: 99%	494/500 [02:17<00:01, 3.79it/s]
Power Factorization: 99%	495/500 [02:17<00:01, 3.72it/s]
Power Factorization: 99%	496/500 [02:18<00:01, 3.64it/s]
Power Factorization: 99%	497/500 [02:18<00:00, 3.47it/s]
Power Factorization: 100%	498/500 [02:18<00:00, 3.52it/s]
Power Factorization: 100%	499/500 [02:19<00:00, 3.08it/s]
Power Factorization: 100%	500/500 [02:19<00:00, 3.59it/s]
Cross Validation: 40%	2/5 [04:36<06:55, 138.35s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:04, 4.00it/s]
Power Factorization: 0%	2/500 [00:00<02:02, 4.06it/s]
Power Factorization: 1%	3/500 [00:00<02:17, 3.62it/s]
Power Factorization: 1%	4/500 [00:01<02:08, 3.86it/s]
Power Factorization: 1%	5/500 [00:01<02:13, 3.72it/s]

Power Factorization:	1%	6/500 [00:01<02:25, 3.39it/s]
Power Factorization:	1%	7/500 [00:02<02:42, 3.04it/s]
Power Factorization:	2%	8/500 [00:02<02:32, 3.23it/s]
Power Factorization:	2%	9/500 [00:02<02:22, 3.44it/s]
Power Factorization:	2%	10/500 [00:02<02:20, 3.49it/s]
Power Factorization:	2%	11/500 [00:03<02:13, 3.66it/s]
Power Factorization:	2%	12/500 [00:03<02:04, 3.92it/s]
Power Factorization:	3%	13/500 [00:03<02:11, 3.72it/s]
Power Factorization:	3%	14/500 [00:03<02:09, 3.74it/s]
Power Factorization:	3%	15/500 [00:04<02:07, 3.80it/s]
Power Factorization:	3%	16/500 [00:04<02:10, 3.70it/s]
Power Factorization:	3%	17/500 [00:04<02:14, 3.59it/s]
Power Factorization:	4%	18/500 [00:05<02:26, 3.29it/s]
Power Factorization:	4%	19/500 [00:05<02:53, 2.78it/s]
Power Factorization:	4%	20/500 [00:05<02:39, 3.02it/s]
Power Factorization:	4%	21/500 [00:06<02:27, 3.26it/s]
Power Factorization:	4%	22/500 [00:06<02:19, 3.42it/s]
Power Factorization:	5%	23/500 [00:06<02:11, 3.62it/s]
Power Factorization:	5%	24/500 [00:06<02:14, 3.54it/s]
Power Factorization:	5%	25/500 [00:07<02:17, 3.46it/s]
Power Factorization:	5%	26/500 [00:07<02:25, 3.25it/s]
Power Factorization:	5%	27/500 [00:07<02:26, 3.24it/s]
Power Factorization:	6%	28/500 [00:08<02:29, 3.16it/s]
Power Factorization:	6%	29/500 [00:08<02:35, 3.03it/s]

Power Factorization:	6%	30/500	[00:09<03:01,	2.60it/s]
Power Factorization:	6%	31/500	[00:09<03:01,	2.58it/s]
Power Factorization:	6%	32/500	[00:09<02:49,	2.76it/s]
Power Factorization:	7%	33/500	[00:10<02:40,	2.92it/s]
Power Factorization:	7%	34/500	[00:10<02:33,	3.04it/s]
Power Factorization:	7%	35/500	[00:10<02:24,	3.23it/s]
Power Factorization:	7%	36/500	[00:10<02:23,	3.23it/s]
Power Factorization:	7%	37/500	[00:11<02:22,	3.26it/s]
Power Factorization:	8%	38/500	[00:11<02:28,	3.10it/s]
Power Factorization:	8%	39/500	[00:11<02:19,	3.30it/s]
Power Factorization:	8%	40/500	[00:12<02:14,	3.41it/s]
Power Factorization:	8%	41/500	[00:12<02:24,	3.18it/s]
Power Factorization:	8%	42/500	[00:12<02:48,	2.71it/s]
Power Factorization:	9%	43/500	[00:13<03:18,	2.30it/s]
Power Factorization:	9%	44/500	[00:13<03:03,	2.48it/s]
Power Factorization:	9%	45/500	[00:14<02:42,	2.79it/s]
Power Factorization:	9%	46/500	[00:14<02:36,	2.91it/s]
Power Factorization:	9%	47/500	[00:14<02:35,	2.91it/s]
Power Factorization:	10%	48/500	[00:15<02:29,	3.02it/s]
Power Factorization:	10%	49/500	[00:15<02:30,	3.00it/s]
Power Factorization:	10%	50/500	[00:15<02:21,	3.19it/s]
Power Factorization:	10%	51/500	[00:15<02:11,	3.43it/s]
Power Factorization:	10%	52/500	[00:16<02:15,	3.30it/s]
Power Factorization:	11%	53/500	[00:16<02:14,	3.31it/s]

Power Factorization: 11%	54/500 [00:16<02:12, 3.38it/s]
Power Factorization: 11%	55/500 [00:17<02:08, 3.46it/s]
Power Factorization: 11%	56/500 [00:17<02:11, 3.36it/s]
Power Factorization: 11%	57/500 [00:17<02:13, 3.32it/s]
Power Factorization: 12%	58/500 [00:18<02:14, 3.28it/s]
Power Factorization: 12%	59/500 [00:18<02:14, 3.28it/s]
Power Factorization: 12%	60/500 [00:18<02:12, 3.32it/s]
Power Factorization: 12%	61/500 [00:18<02:10, 3.37it/s]
Power Factorization: 12%	62/500 [00:19<02:06, 3.48it/s]
Power Factorization: 13%	63/500 [00:19<02:00, 3.62it/s]
Power Factorization: 13%	64/500 [00:19<02:04, 3.51it/s]
Power Factorization: 13%	65/500 [00:20<02:02, 3.54it/s]
Power Factorization: 13%	66/500 [00:20<02:01, 3.58it/s]
Power Factorization: 13%	67/500 [00:20<02:09, 3.35it/s]
Power Factorization: 14%	68/500 [00:20<02:00, 3.59it/s]
Power Factorization: 14%	69/500 [00:21<02:05, 3.43it/s]
Power Factorization: 14%	70/500 [00:21<02:02, 3.51it/s]
Power Factorization: 14%	71/500 [00:21<02:01, 3.52it/s]
Power Factorization: 14%	72/500 [00:22<01:58, 3.61it/s]
Power Factorization: 15%	73/500 [00:22<01:58, 3.60it/s]
Power Factorization: 15%	74/500 [00:22<02:12, 3.21it/s]
Power Factorization: 15%	75/500 [00:23<02:41, 2.64it/s]
Power Factorization: 15%	76/500 [00:23<03:03, 2.31it/s]
Power Factorization: 15%	77/500 [00:24<03:01, 2.33it/s]

Power Factorization: 16%	78/500 [00:24<03:06,	2.27it/s]
Power Factorization: 16%	79/500 [00:25<02:49,	2.49it/s]
Power Factorization: 16%	80/500 [00:25<02:34,	2.71it/s]
Power Factorization: 16%	81/500 [00:25<02:22,	2.94it/s]
Power Factorization: 16%	82/500 [00:25<02:09,	3.24it/s]
Power Factorization: 17%	83/500 [00:26<02:06,	3.30it/s]
Power Factorization: 17%	84/500 [00:26<02:03,	3.36it/s]
Power Factorization: 17%	85/500 [00:26<02:18,	3.00it/s]
Power Factorization: 17%	86/500 [00:27<02:14,	3.07it/s]
Power Factorization: 17%	87/500 [00:27<02:14,	3.06it/s]
Power Factorization: 18%	88/500 [00:27<02:22,	2.89it/s]
Power Factorization: 18%	89/500 [00:28<02:25,	2.83it/s]
Power Factorization: 18%	90/500 [00:28<02:08,	3.19it/s]
Power Factorization: 18%	91/500 [00:28<02:18,	2.95it/s]
Power Factorization: 18%	92/500 [00:29<02:20,	2.90it/s]
Power Factorization: 19%	93/500 [00:29<02:07,	3.20it/s]
Power Factorization: 19%	94/500 [00:29<01:59,	3.39it/s]
Power Factorization: 19%	95/500 [00:29<01:53,	3.58it/s]
Power Factorization: 19%	96/500 [00:30<01:55,	3.49it/s]
Power Factorization: 19%	97/500 [00:30<01:49,	3.68it/s]
Power Factorization: 20%	98/500 [00:30<01:47,	3.72it/s]
Power Factorization: 20%	99/500 [00:30<01:46,	3.76it/s]
Power Factorization: 20%	100/500 [00:31<01:45,	3.78it/s]
Power Factorization: 20%	101/500 [00:31<01:39,	4.02it/s]

Power Factorization: 20%	102/500 [00:31<01:41, 3.91it/s]
Power Factorization: 21%	103/500 [00:31<01:41, 3.89it/s]
Power Factorization: 21%	104/500 [00:32<01:39, 4.00it/s]
Power Factorization: 21%	105/500 [00:32<01:39, 3.98it/s]
Power Factorization: 21%	106/500 [00:32<01:48, 3.62it/s]
Power Factorization: 21%	107/500 [00:33<01:42, 3.84it/s]
Power Factorization: 22%	108/500 [00:33<01:45, 3.73it/s]
Power Factorization: 22%	109/500 [00:33<01:38, 3.99it/s]
Power Factorization: 22%	110/500 [00:33<01:47, 3.62it/s]
Power Factorization: 22%	111/500 [00:34<01:38, 3.97it/s]
Power Factorization: 22%	112/500 [00:34<01:38, 3.94it/s]
Power Factorization: 23%	113/500 [00:34<01:39, 3.87it/s]
Power Factorization: 23%	114/500 [00:34<01:34, 4.09it/s]
Power Factorization: 23%	115/500 [00:35<01:34, 4.07it/s]
Power Factorization: 23%	116/500 [00:35<01:37, 3.95it/s]
Power Factorization: 23%	117/500 [00:35<01:33, 4.10it/s]
Power Factorization: 24%	118/500 [00:35<01:33, 4.08it/s]
Power Factorization: 24%	119/500 [00:36<01:34, 4.02it/s]
Power Factorization: 24%	120/500 [00:36<01:34, 4.02it/s]
Power Factorization: 24%	121/500 [00:36<01:36, 3.92it/s]
Power Factorization: 24%	122/500 [00:36<01:35, 3.98it/s]
Power Factorization: 25%	123/500 [00:37<01:33, 4.01it/s]
Power Factorization: 25%	124/500 [00:37<01:30, 4.15it/s]
Power Factorization: 25%	125/500 [00:37<01:38, 3.82it/s]

Power Factorization: 25%	126/500 [00:37<01:39, 3.76it/s]
Power Factorization: 25%	127/500 [00:38<01:41, 3.69it/s]
Power Factorization: 26%	128/500 [00:38<01:46, 3.49it/s]
Power Factorization: 26%	129/500 [00:38<01:44, 3.55it/s]
Power Factorization: 26%	130/500 [00:38<01:40, 3.69it/s]
Power Factorization: 26%	131/500 [00:39<01:36, 3.81it/s]
Power Factorization: 26%	132/500 [00:39<01:38, 3.75it/s]
Power Factorization: 27%	133/500 [00:39<01:45, 3.48it/s]
Power Factorization: 27%	134/500 [00:40<01:43, 3.55it/s]
Power Factorization: 27%	135/500 [00:40<01:46, 3.42it/s]
Power Factorization: 27%	136/500 [00:40<01:50, 3.29it/s]
Power Factorization: 27%	137/500 [00:41<01:52, 3.24it/s]
Power Factorization: 28%	138/500 [00:41<01:45, 3.44it/s]
Power Factorization: 28%	139/500 [00:41<02:01, 2.96it/s]
Power Factorization: 28%	140/500 [00:42<01:59, 3.00it/s]
Power Factorization: 28%	141/500 [00:42<01:50, 3.25it/s]
Power Factorization: 28%	142/500 [00:42<01:37, 3.66it/s]
Power Factorization: 29%	143/500 [00:42<01:52, 3.18it/s]
Power Factorization: 29%	144/500 [00:43<01:47, 3.30it/s]
Power Factorization: 29%	145/500 [00:43<01:37, 3.66it/s]
Power Factorization: 29%	146/500 [00:43<01:37, 3.62it/s]
Power Factorization: 29%	147/500 [00:43<01:40, 3.53it/s]
Power Factorization: 30%	148/500 [00:44<01:32, 3.82it/s]
Power Factorization: 30%	149/500 [00:44<01:28, 3.95it/s]

Power Factorization: 30%	150/500 [00:44<01:31, 3.81it/s]
Power Factorization: 30%	151/500 [00:44<01:30, 3.85it/s]
Power Factorization: 30%	152/500 [00:45<01:26, 4.02it/s]
Power Factorization: 31%	153/500 [00:45<01:25, 4.07it/s]
Power Factorization: 31%	154/500 [00:45<01:28, 3.90it/s]
Power Factorization: 31%	155/500 [00:45<01:28, 3.91it/s]
Power Factorization: 31%	156/500 [00:46<01:26, 3.96it/s]
Power Factorization: 31%	157/500 [00:46<01:26, 3.96it/s]
Power Factorization: 32%	158/500 [00:46<01:26, 3.93it/s]
Power Factorization: 32%	159/500 [00:47<01:29, 3.83it/s]
Power Factorization: 32%	160/500 [00:47<01:31, 3.73it/s]
Power Factorization: 32%	161/500 [00:47<01:31, 3.70it/s]
Power Factorization: 32%	162/500 [00:47<01:25, 3.96it/s]
Power Factorization: 33%	163/500 [00:48<01:25, 3.95it/s]
Power Factorization: 33%	164/500 [00:48<01:27, 3.82it/s]
Power Factorization: 33%	165/500 [00:48<01:27, 3.82it/s]
Power Factorization: 33%	166/500 [00:48<01:35, 3.50it/s]
Power Factorization: 33%	167/500 [00:49<01:37, 3.43it/s]
Power Factorization: 34%	168/500 [00:49<01:34, 3.50it/s]
Power Factorization: 34%	169/500 [00:49<01:29, 3.71it/s]
Power Factorization: 34%	170/500 [00:49<01:26, 3.81it/s]
Power Factorization: 34%	171/500 [00:50<01:23, 3.96it/s]
Power Factorization: 34%	172/500 [00:50<01:19, 4.12it/s]
Power Factorization: 35%	173/500 [00:50<01:22, 3.97it/s]

Power Factorization: 35%	174/500 [00:50<01:24,	3.87it/s]
Power Factorization: 35%	175/500 [00:51<01:22,	3.96it/s]
Power Factorization: 35%	176/500 [00:51<01:54,	2.83it/s]
Power Factorization: 35%	177/500 [00:52<01:44,	3.09it/s]
Power Factorization: 36%	178/500 [00:52<01:32,	3.48it/s]
Power Factorization: 36%	179/500 [00:52<01:28,	3.61it/s]
Power Factorization: 36%	180/500 [00:52<01:23,	3.84it/s]
Power Factorization: 36%	181/500 [00:53<01:24,	3.76it/s]
Power Factorization: 36%	182/500 [00:53<01:21,	3.91it/s]
Power Factorization: 37%	183/500 [00:53<01:21,	3.89it/s]
Power Factorization: 37%	184/500 [00:53<01:25,	3.70it/s]
Power Factorization: 37%	185/500 [00:54<01:23,	3.75it/s]
Power Factorization: 37%	186/500 [00:54<01:25,	3.68it/s]
Power Factorization: 37%	187/500 [00:54<01:22,	3.78it/s]
Power Factorization: 38%	188/500 [00:54<01:23,	3.74it/s]
Power Factorization: 38%	189/500 [00:55<01:29,	3.47it/s]
Power Factorization: 38%	190/500 [00:55<01:37,	3.18it/s]
Power Factorization: 38%	191/500 [00:55<01:33,	3.31it/s]
Power Factorization: 38%	192/500 [00:56<01:32,	3.34it/s]
Power Factorization: 39%	193/500 [00:56<01:33,	3.30it/s]
Power Factorization: 39%	194/500 [00:56<01:41,	3.01it/s]
Power Factorization: 39%	195/500 [00:57<01:34,	3.23it/s]
Power Factorization: 39%	196/500 [00:57<01:27,	3.46it/s]
Power Factorization: 39%	197/500 [00:57<01:43,	2.93it/s]

Power Factorization: 40%	198/500 [00:58<01:45,	2.87it/s]
Power Factorization: 40%	199/500 [00:58<01:40,	3.00it/s]
Power Factorization: 40%	200/500 [00:58<01:35,	3.16it/s]
Power Factorization: 40%	201/500 [00:59<01:29,	3.34it/s]
Power Factorization: 40%	202/500 [00:59<01:26,	3.45it/s]
Power Factorization: 41%	203/500 [00:59<01:26,	3.43it/s]
Power Factorization: 41%	204/500 [00:59<01:23,	3.56it/s]
Power Factorization: 41%	205/500 [01:00<01:26,	3.42it/s]
Power Factorization: 41%	206/500 [01:00<01:22,	3.56it/s]
Power Factorization: 41%	207/500 [01:00<01:18,	3.73it/s]
Power Factorization: 42%	208/500 [01:00<01:18,	3.72it/s]
Power Factorization: 42%	209/500 [01:01<01:28,	3.27it/s]
Power Factorization: 42%	210/500 [01:01<01:30,	3.19it/s]
Power Factorization: 42%	211/500 [01:02<01:35,	3.01it/s]
Power Factorization: 42%	212/500 [01:02<01:29,	3.22it/s]
Power Factorization: 43%	213/500 [01:02<01:24,	3.40it/s]
Power Factorization: 43%	214/500 [01:02<01:21,	3.52it/s]
Power Factorization: 43%	215/500 [01:03<01:21,	3.51it/s]
Power Factorization: 43%	216/500 [01:03<01:21,	3.50it/s]
Power Factorization: 43%	217/500 [01:03<01:19,	3.54it/s]
Power Factorization: 44%	218/500 [01:03<01:21,	3.44it/s]
Power Factorization: 44%	219/500 [01:04<01:24,	3.33it/s]
Power Factorization: 44%	220/500 [01:04<01:22,	3.40it/s]
Power Factorization: 44%	221/500 [01:04<01:24,	3.30it/s]

Power Factorization: 44%	222/500 [01:05<01:23, 3.35it/s]
Power Factorization: 45%	223/500 [01:05<01:20, 3.43it/s]
Power Factorization: 45%	224/500 [01:05<01:21, 3.40it/s]
Power Factorization: 45%	225/500 [01:06<01:18, 3.50it/s]
Power Factorization: 45%	226/500 [01:06<01:25, 3.22it/s]
Power Factorization: 45%	227/500 [01:06<01:26, 3.16it/s]
Power Factorization: 46%	228/500 [01:07<01:25, 3.20it/s]
Power Factorization: 46%	229/500 [01:07<01:26, 3.14it/s]
Power Factorization: 46%	230/500 [01:07<01:22, 3.26it/s]
Power Factorization: 46%	231/500 [01:07<01:18, 3.43it/s]
Power Factorization: 46%	232/500 [01:08<01:15, 3.54it/s]
Power Factorization: 47%	233/500 [01:08<01:14, 3.61it/s]
Power Factorization: 47%	234/500 [01:08<01:11, 3.70it/s]
Power Factorization: 47%	235/500 [01:08<01:10, 3.74it/s]
Power Factorization: 47%	236/500 [01:09<01:08, 3.84it/s]
Power Factorization: 47%	237/500 [01:09<01:08, 3.86it/s]
Power Factorization: 48%	238/500 [01:09<01:08, 3.85it/s]
Power Factorization: 48%	239/500 [01:09<01:11, 3.63it/s]
Power Factorization: 48%	240/500 [01:10<01:10, 3.69it/s]
Power Factorization: 48%	241/500 [01:10<01:12, 3.59it/s]
Power Factorization: 48%	242/500 [01:10<01:07, 3.84it/s]
Power Factorization: 49%	243/500 [01:11<01:07, 3.81it/s]
Power Factorization: 49%	244/500 [01:11<01:07, 3.81it/s]
Power Factorization: 49%	245/500 [01:11<01:07, 3.78it/s]

Power Factorization: 49%	246/500 [01:11<01:06, 3.83it/s]
Power Factorization: 49%	247/500 [01:12<01:09, 3.66it/s]
Power Factorization: 50%	248/500 [01:12<01:12, 3.46it/s]
Power Factorization: 50%	249/500 [01:12<01:12, 3.47it/s]
Power Factorization: 50%	250/500 [01:12<01:09, 3.61it/s]
Power Factorization: 50%	251/500 [01:13<01:09, 3.60it/s]
Power Factorization: 50%	252/500 [01:13<01:08, 3.65it/s]
Power Factorization: 51%	253/500 [01:13<01:15, 3.26it/s]
Power Factorization: 51%	254/500 [01:14<01:12, 3.40it/s]
Power Factorization: 51%	255/500 [01:14<01:25, 2.87it/s]
Power Factorization: 51%	256/500 [01:15<01:45, 2.32it/s]
Power Factorization: 51%	257/500 [01:15<01:54, 2.13it/s]
Power Factorization: 52%	258/500 [01:16<01:43, 2.33it/s]
Power Factorization: 52%	259/500 [01:16<01:32, 2.60it/s]
Power Factorization: 52%	260/500 [01:16<01:43, 2.31it/s]
Power Factorization: 52%	261/500 [01:17<01:35, 2.52it/s]
Power Factorization: 52%	262/500 [01:17<01:24, 2.81it/s]
Power Factorization: 53%	263/500 [01:17<01:18, 3.02it/s]
Power Factorization: 53%	264/500 [01:18<01:16, 3.10it/s]
Power Factorization: 53%	265/500 [01:18<01:11, 3.30it/s]
Power Factorization: 53%	266/500 [01:18<01:10, 3.34it/s]
Power Factorization: 53%	267/500 [01:19<01:12, 3.22it/s]
Power Factorization: 54%	268/500 [01:19<01:09, 3.35it/s]
Power Factorization: 54%	269/500 [01:19<01:10, 3.30it/s]

Power Factorization: 54%	270/500 [01:20<01:16, 2.99it/s]
Power Factorization: 54%	271/500 [01:20<01:11, 3.18it/s]
Power Factorization: 54%	272/500 [01:20<01:06, 3.44it/s]
Power Factorization: 55%	273/500 [01:20<01:05, 3.47it/s]
Power Factorization: 55%	274/500 [01:21<01:09, 3.24it/s]
Power Factorization: 55%	275/500 [01:21<01:06, 3.40it/s]
Power Factorization: 55%	276/500 [01:21<01:04, 3.49it/s]
Power Factorization: 55%	277/500 [01:22<01:05, 3.40it/s]
Power Factorization: 56%	278/500 [01:22<01:00, 3.65it/s]
Power Factorization: 56%	279/500 [01:22<01:25, 2.58it/s]
Power Factorization: 56%	280/500 [01:23<01:17, 2.83it/s]
Power Factorization: 56%	281/500 [01:23<01:11, 3.07it/s]
Power Factorization: 56%	282/500 [01:23<01:06, 3.26it/s]
Power Factorization: 57%	283/500 [01:23<01:03, 3.42it/s]
Power Factorization: 57%	284/500 [01:24<01:01, 3.53it/s]
Power Factorization: 57%	285/500 [01:24<00:57, 3.72it/s]
Power Factorization: 57%	286/500 [01:24<00:58, 3.68it/s]
Power Factorization: 57%	287/500 [01:25<00:59, 3.61it/s]
Power Factorization: 58%	288/500 [01:25<00:58, 3.62it/s]
Power Factorization: 58%	289/500 [01:25<00:54, 3.87it/s]
Power Factorization: 58%	290/500 [01:25<00:55, 3.80it/s]
Power Factorization: 58%	291/500 [01:26<00:54, 3.85it/s]
Power Factorization: 58%	292/500 [01:26<00:53, 3.86it/s]
Power Factorization: 59%	293/500 [01:26<00:53, 3.90it/s]

Power Factorization: 59%	294/500 [01:26<01:03, 3.23it/s]
Power Factorization: 59%	295/500 [01:27<01:10, 2.90it/s]
Power Factorization: 59%	296/500 [01:27<01:15, 2.70it/s]
Power Factorization: 59%	297/500 [01:28<01:15, 2.70it/s]
Power Factorization: 60%	298/500 [01:28<01:07, 2.97it/s]
Power Factorization: 60%	299/500 [01:28<01:04, 3.09it/s]
Power Factorization: 60%	300/500 [01:29<01:08, 2.93it/s]
Power Factorization: 60%	301/500 [01:29<01:01, 3.26it/s]
Power Factorization: 60%	302/500 [01:29<00:58, 3.39it/s]
Power Factorization: 61%	303/500 [01:29<00:59, 3.29it/s]
Power Factorization: 61%	304/500 [01:30<01:01, 3.16it/s]
Power Factorization: 61%	305/500 [01:30<01:02, 3.13it/s]
Power Factorization: 61%	306/500 [01:30<00:59, 3.24it/s]
Power Factorization: 61%	307/500 [01:31<00:56, 3.44it/s]
Power Factorization: 62%	308/500 [01:31<00:54, 3.54it/s]
Power Factorization: 62%	309/500 [01:31<00:56, 3.36it/s]
Power Factorization: 62%	310/500 [01:31<00:52, 3.59it/s]
Power Factorization: 62%	311/500 [01:32<00:50, 3.77it/s]
Power Factorization: 62%	312/500 [01:32<00:51, 3.68it/s]
Power Factorization: 63%	313/500 [01:32<00:50, 3.73it/s]
Power Factorization: 63%	314/500 [01:33<00:51, 3.62it/s]
Power Factorization: 63%	315/500 [01:33<00:49, 3.76it/s]
Power Factorization: 63%	316/500 [01:33<00:46, 3.98it/s]
Power Factorization: 63%	317/500 [01:33<00:50, 3.62it/s]

Power Factorization: 64%	318/500 [01:34<00:52, 3.45it/s]
Power Factorization: 64%	319/500 [01:34<00:52, 3.44it/s]
Power Factorization: 64%	320/500 [01:34<00:51, 3.49it/s]
Power Factorization: 64%	321/500 [01:34<00:49, 3.63it/s]
Power Factorization: 64%	322/500 [01:35<00:49, 3.58it/s]
Power Factorization: 65%	323/500 [01:35<00:48, 3.62it/s]
Power Factorization: 65%	324/500 [01:35<00:48, 3.65it/s]
Power Factorization: 65%	325/500 [01:36<00:48, 3.63it/s]
Power Factorization: 65%	326/500 [01:36<00:48, 3.61it/s]
Power Factorization: 65%	327/500 [01:36<00:47, 3.68it/s]
Power Factorization: 66%	328/500 [01:36<00:46, 3.72it/s]
Power Factorization: 66%	329/500 [01:37<00:45, 3.79it/s]
Power Factorization: 66%	330/500 [01:37<00:42, 3.96it/s]
Power Factorization: 66%	331/500 [01:37<00:50, 3.37it/s]
Power Factorization: 66%	332/500 [01:38<00:52, 3.17it/s]
Power Factorization: 67%	333/500 [01:38<00:49, 3.37it/s]
Power Factorization: 67%	334/500 [01:38<00:45, 3.63it/s]
Power Factorization: 67%	335/500 [01:38<00:45, 3.63it/s]
Power Factorization: 67%	336/500 [01:39<00:43, 3.73it/s]
Power Factorization: 67%	337/500 [01:39<00:44, 3.66it/s]
Power Factorization: 68%	338/500 [01:39<00:41, 3.91it/s]
Power Factorization: 68%	339/500 [01:39<00:43, 3.69it/s]
Power Factorization: 68%	340/500 [01:40<00:42, 3.80it/s]
Power Factorization: 68%	341/500 [01:40<00:41, 3.84it/s]

Power Factorization: 68%	342/500 [01:40<00:46, 3.37it/s]
Power Factorization: 69%	343/500 [01:41<00:46, 3.37it/s]
Power Factorization: 69%	344/500 [01:41<00:47, 3.31it/s]
Power Factorization: 69%	345/500 [01:41<00:41, 3.70it/s]
Power Factorization: 69%	346/500 [01:41<00:42, 3.60it/s]
Power Factorization: 69%	347/500 [01:42<00:41, 3.68it/s]
Power Factorization: 70%	348/500 [01:42<00:40, 3.77it/s]
Power Factorization: 70%	349/500 [01:42<00:40, 3.74it/s]
Power Factorization: 70%	350/500 [01:42<00:38, 3.91it/s]
Power Factorization: 70%	351/500 [01:43<00:37, 3.93it/s]
Power Factorization: 70%	352/500 [01:43<00:38, 3.84it/s]
Power Factorization: 71%	353/500 [01:43<00:36, 3.98it/s]
Power Factorization: 71%	354/500 [01:43<00:35, 4.10it/s]
Power Factorization: 71%	355/500 [01:44<00:37, 3.90it/s]
Power Factorization: 71%	356/500 [01:44<00:45, 3.17it/s]
Power Factorization: 71%	357/500 [01:45<00:53, 2.66it/s]
Power Factorization: 72%	358/500 [01:45<00:57, 2.47it/s]
Power Factorization: 72%	359/500 [01:45<00:53, 2.65it/s]
Power Factorization: 72%	360/500 [01:46<00:46, 3.04it/s]
Power Factorization: 72%	361/500 [01:46<00:42, 3.29it/s]
Power Factorization: 72%	362/500 [01:46<00:40, 3.43it/s]
Power Factorization: 73%	363/500 [01:46<00:39, 3.47it/s]
Power Factorization: 73%	364/500 [01:47<00:37, 3.63it/s]
Power Factorization: 73%	365/500 [01:47<00:36, 3.71it/s]

Power Factorization: 73%	366/500 [01:47<00:35,	3.81it/s]
Power Factorization: 73%	367/500 [01:47<00:33,	3.93it/s]
Power Factorization: 74%	368/500 [01:48<00:34,	3.83it/s]
Power Factorization: 74%	369/500 [01:48<00:35,	3.66it/s]
Power Factorization: 74%	370/500 [01:48<00:35,	3.63it/s]
Power Factorization: 74%	371/500 [01:49<00:35,	3.66it/s]
Power Factorization: 74%	372/500 [01:49<00:33,	3.85it/s]
Power Factorization: 75%	373/500 [01:49<00:43,	2.90it/s]
Power Factorization: 75%	374/500 [01:50<00:38,	3.25it/s]
Power Factorization: 75%	375/500 [01:50<00:37,	3.34it/s]
Power Factorization: 75%	376/500 [01:50<00:34,	3.61it/s]
Power Factorization: 75%	377/500 [01:50<00:32,	3.79it/s]
Power Factorization: 76%	378/500 [01:51<00:31,	3.88it/s]
Power Factorization: 76%	379/500 [01:51<00:32,	3.67it/s]
Power Factorization: 76%	380/500 [01:51<00:32,	3.70it/s]
Power Factorization: 76%	381/500 [01:51<00:31,	3.78it/s]
Power Factorization: 76%	382/500 [01:52<00:32,	3.61it/s]
Power Factorization: 77%	383/500 [01:52<00:30,	3.80it/s]
Power Factorization: 77%	384/500 [01:52<00:31,	3.69it/s]
Power Factorization: 77%	385/500 [01:52<00:29,	3.85it/s]
Power Factorization: 77%	386/500 [01:53<00:28,	4.01it/s]
Power Factorization: 77%	387/500 [01:53<00:30,	3.74it/s]
Power Factorization: 78%	388/500 [01:53<00:28,	3.97it/s]
Power Factorization: 78%	389/500 [01:53<00:27,	4.00it/s]

Power Factorization: 78%	390/500 [01:54<00:27, 4.03it/s]
Power Factorization: 78%	391/500 [01:54<00:28, 3.79it/s]
Power Factorization: 78%	392/500 [01:54<00:32, 3.33it/s]
Power Factorization: 79%	393/500 [01:55<00:30, 3.49it/s]
Power Factorization: 79%	394/500 [01:55<00:29, 3.62it/s]
Power Factorization: 79%	395/500 [01:55<00:31, 3.37it/s]
Power Factorization: 79%	396/500 [01:55<00:29, 3.49it/s]
Power Factorization: 79%	397/500 [01:56<00:28, 3.60it/s]
Power Factorization: 80%	398/500 [01:56<00:26, 3.87it/s]
Power Factorization: 80%	399/500 [01:56<00:25, 3.89it/s]
Power Factorization: 80%	400/500 [01:56<00:25, 3.93it/s]
Power Factorization: 80%	401/500 [01:57<00:25, 3.82it/s]
Power Factorization: 80%	402/500 [01:57<00:25, 3.86it/s]
Power Factorization: 81%	403/500 [01:57<00:24, 3.94it/s]
Power Factorization: 81%	404/500 [01:58<00:25, 3.74it/s]
Power Factorization: 81%	405/500 [01:58<00:26, 3.57it/s]
Power Factorization: 81%	406/500 [01:58<00:26, 3.56it/s]
Power Factorization: 81%	407/500 [01:58<00:25, 3.70it/s]
Power Factorization: 82%	408/500 [01:59<00:25, 3.59it/s]
Power Factorization: 82%	409/500 [01:59<00:25, 3.63it/s]
Power Factorization: 82%	410/500 [01:59<00:24, 3.72it/s]
Power Factorization: 82%	411/500 [01:59<00:23, 3.76it/s]
Power Factorization: 82%	412/500 [02:00<00:23, 3.78it/s]
Power Factorization: 83%	413/500 [02:00<00:22, 3.80it/s]

Power Factorization: 83%	414/500 [02:00<00:22,	3.88it/s]
Power Factorization: 83%	415/500 [02:01<00:23,	3.57it/s]
Power Factorization: 83%	416/500 [02:01<00:23,	3.60it/s]
Power Factorization: 83%	417/500 [02:01<00:22,	3.62it/s]
Power Factorization: 84%	418/500 [02:01<00:22,	3.72it/s]
Power Factorization: 84%	419/500 [02:02<00:22,	3.59it/s]
Power Factorization: 84%	420/500 [02:02<00:23,	3.36it/s]
Power Factorization: 84%	421/500 [02:02<00:22,	3.50it/s]
Power Factorization: 84%	422/500 [02:02<00:21,	3.61it/s]
Power Factorization: 85%	423/500 [02:03<00:20,	3.70it/s]
Power Factorization: 85%	424/500 [02:03<00:19,	3.87it/s]
Power Factorization: 85%	425/500 [02:03<00:19,	3.93it/s]
Power Factorization: 85%	426/500 [02:03<00:19,	3.84it/s]
Power Factorization: 85%	427/500 [02:04<00:19,	3.81it/s]
Power Factorization: 86%	428/500 [02:04<00:21,	3.35it/s]
Power Factorization: 86%	429/500 [02:05<00:23,	3.03it/s]
Power Factorization: 86%	430/500 [02:05<00:21,	3.29it/s]
Power Factorization: 86%	431/500 [02:05<00:20,	3.30it/s]
Power Factorization: 86%	432/500 [02:05<00:19,	3.41it/s]
Power Factorization: 87%	433/500 [02:06<00:20,	3.33it/s]
Power Factorization: 87%	434/500 [02:06<00:19,	3.41it/s]
Power Factorization: 87%	435/500 [02:06<00:18,	3.44it/s]
Power Factorization: 87%	436/500 [02:06<00:17,	3.63it/s]
Power Factorization: 87%	437/500 [02:07<00:17,	3.54it/s]

Power Factorization: 88%	438/500 [02:07<00:17,	3.61it/s]
Power Factorization: 88%	439/500 [02:07<00:17,	3.46it/s]
Power Factorization: 88%	440/500 [02:08<00:16,	3.63it/s]
Power Factorization: 88%	441/500 [02:08<00:16,	3.68it/s]
Power Factorization: 88%	442/500 [02:08<00:15,	3.72it/s]
Power Factorization: 89%	443/500 [02:08<00:15,	3.73it/s]
Power Factorization: 89%	444/500 [02:09<00:16,	3.45it/s]
Power Factorization: 89%	445/500 [02:09<00:15,	3.56it/s]
Power Factorization: 89%	446/500 [02:09<00:15,	3.52it/s]
Power Factorization: 89%	447/500 [02:10<00:15,	3.35it/s]
Power Factorization: 90%	448/500 [02:10<00:15,	3.43it/s]
Power Factorization: 90%	449/500 [02:10<00:15,	3.36it/s]
Power Factorization: 90%	450/500 [02:10<00:14,	3.48it/s]
Power Factorization: 90%	451/500 [02:11<00:15,	3.25it/s]
Power Factorization: 90%	452/500 [02:11<00:18,	2.62it/s]
Power Factorization: 91%	453/500 [02:12<00:16,	2.92it/s]
Power Factorization: 91%	454/500 [02:12<00:14,	3.18it/s]
Power Factorization: 91%	455/500 [02:12<00:13,	3.40it/s]
Power Factorization: 91%	456/500 [02:12<00:13,	3.34it/s]
Power Factorization: 91%	457/500 [02:13<00:12,	3.52it/s]
Power Factorization: 92%	458/500 [02:13<00:11,	3.51it/s]
Power Factorization: 92%	459/500 [02:13<00:12,	3.30it/s]
Power Factorization: 92%	460/500 [02:14<00:12,	3.27it/s]
Power Factorization: 92%	461/500 [02:14<00:12,	3.23it/s]

Power Factorization: 92%	462/500 [02:14<00:11, 3.28it/s]
Power Factorization: 93%	463/500 [02:15<00:11, 3.24it/s]
Power Factorization: 93%	464/500 [02:15<00:10, 3.36it/s]
Power Factorization: 93%	465/500 [02:15<00:10, 3.46it/s]
Power Factorization: 93%	466/500 [02:15<00:09, 3.42it/s]
Power Factorization: 93%	467/500 [02:16<00:09, 3.48it/s]
Power Factorization: 94%	468/500 [02:16<00:12, 2.61it/s]
Power Factorization: 94%	469/500 [02:17<00:11, 2.70it/s]
Power Factorization: 94%	470/500 [02:17<00:10, 2.90it/s]
Power Factorization: 94%	471/500 [02:17<00:10, 2.79it/s]
Power Factorization: 94%	472/500 [02:18<00:10, 2.64it/s]
Power Factorization: 95%	473/500 [02:18<00:10, 2.45it/s]
Power Factorization: 95%	474/500 [02:19<00:10, 2.60it/s]
Power Factorization: 95%	475/500 [02:19<00:09, 2.71it/s]
Power Factorization: 95%	476/500 [02:19<00:08, 2.91it/s]
Power Factorization: 95%	477/500 [02:19<00:07, 3.07it/s]
Power Factorization: 96%	478/500 [02:20<00:06, 3.23it/s]
Power Factorization: 96%	479/500 [02:20<00:06, 3.27it/s]
Power Factorization: 96%	480/500 [02:20<00:05, 3.34it/s]
Power Factorization: 96%	481/500 [02:21<00:05, 3.32it/s]
Power Factorization: 96%	482/500 [02:21<00:05, 3.08it/s]
Power Factorization: 97%	483/500 [02:21<00:05, 2.93it/s]
Power Factorization: 97%	484/500 [02:22<00:05, 3.06it/s]
Power Factorization: 97%	485/500 [02:22<00:04, 3.24it/s]

Power Factorization: 97%	486/500 [02:22<00:04, 3.35it/s]
Power Factorization: 97%	487/500 [02:22<00:03, 3.34it/s]
Power Factorization: 98%	488/500 [02:23<00:03, 3.23it/s]
Power Factorization: 98%	489/500 [02:23<00:03, 3.32it/s]
Power Factorization: 98%	490/500 [02:23<00:02, 3.52it/s]
Power Factorization: 98%	491/500 [02:24<00:02, 3.40it/s]
Power Factorization: 98%	492/500 [02:24<00:02, 3.41it/s]
Power Factorization: 99%	493/500 [02:24<00:02, 3.40it/s]
Power Factorization: 99%	494/500 [02:25<00:01, 3.49it/s]
Power Factorization: 99%	495/500 [02:25<00:01, 3.49it/s]
Power Factorization: 99%	496/500 [02:25<00:01, 3.29it/s]
Power Factorization: 99%	497/500 [02:25<00:00, 3.46it/s]
Power Factorization: 100%	498/500 [02:26<00:00, 3.50it/s]
Power Factorization: 100%	499/500 [02:26<00:00, 3.40it/s]
Power Factorization: 100%	500/500 [02:26<00:00, 3.41it/s]
Cross Validation: 60%	3/5 [07:03<04:44, 142.23s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:21, 3.53it/s]
Power Factorization: 0%	2/500 [00:00<02:24, 3.43it/s]
Power Factorization: 1%	3/500 [00:00<02:34, 3.22it/s]
Power Factorization: 1%	4/500 [00:01<02:30, 3.29it/s]
Power Factorization: 1%	5/500 [00:01<02:18, 3.56it/s]
Power Factorization: 1%	6/500 [00:01<02:11, 3.74it/s]
Power Factorization: 1%	7/500 [00:01<02:07, 3.88it/s]

Power Factorization:	2%	8/500 [00:02<02:09, 3.79it/s]
Power Factorization:	2%	9/500 [00:02<02:06, 3.87it/s]
Power Factorization:	2%	10/500 [00:02<02:10, 3.74it/s]
Power Factorization:	2%	11/500 [00:02<02:08, 3.82it/s]
Power Factorization:	2%	12/500 [00:03<02:12, 3.68it/s]
Power Factorization:	3%	13/500 [00:03<02:12, 3.67it/s]
Power Factorization:	3%	14/500 [00:03<02:15, 3.58it/s]
Power Factorization:	3%	15/500 [00:04<02:06, 3.83it/s]
Power Factorization:	3%	16/500 [00:04<02:05, 3.85it/s]
Power Factorization:	3%	17/500 [00:04<02:02, 3.96it/s]
Power Factorization:	4%	18/500 [00:04<02:01, 3.97it/s]
Power Factorization:	4%	19/500 [00:05<02:04, 3.85it/s]
Power Factorization:	4%	20/500 [00:05<02:02, 3.91it/s]
Power Factorization:	4%	21/500 [00:05<02:04, 3.86it/s]
Power Factorization:	4%	22/500 [00:05<02:00, 3.96it/s]
Power Factorization:	5%	23/500 [00:06<02:00, 3.97it/s]
Power Factorization:	5%	24/500 [00:06<01:55, 4.12it/s]
Power Factorization:	5%	25/500 [00:06<02:15, 3.50it/s]
Power Factorization:	5%	26/500 [00:07<02:30, 3.16it/s]
Power Factorization:	5%	27/500 [00:07<02:22, 3.32it/s]
Power Factorization:	6%	28/500 [00:07<02:15, 3.48it/s]
Power Factorization:	6%	29/500 [00:07<02:02, 3.83it/s]
Power Factorization:	6%	30/500 [00:08<02:02, 3.84it/s]
Power Factorization:	6%	31/500 [00:08<01:59, 3.93it/s]

Power Factorization:	6%	32/500	[00:08<01:55,	4.05it/s]
Power Factorization:	7%	33/500	[00:08<01:58,	3.95it/s]
Power Factorization:	7%	34/500	[00:09<02:00,	3.88it/s]
Power Factorization:	7%	35/500	[00:09<01:56,	3.99it/s]
Power Factorization:	7%	36/500	[00:09<01:58,	3.93it/s]
Power Factorization:	7%	37/500	[00:09<02:01,	3.82it/s]
Power Factorization:	8%	38/500	[00:10<02:11,	3.50it/s]
Power Factorization:	8%	39/500	[00:10<02:20,	3.28it/s]
Power Factorization:	8%	40/500	[00:10<02:13,	3.44it/s]
Power Factorization:	8%	41/500	[00:11<02:04,	3.68it/s]
Power Factorization:	8%	42/500	[00:11<01:55,	3.96it/s]
Power Factorization:	9%	43/500	[00:11<01:54,	3.98it/s]
Power Factorization:	9%	44/500	[00:11<01:55,	3.94it/s]
Power Factorization:	9%	45/500	[00:11<01:55,	3.94it/s]
Power Factorization:	9%	46/500	[00:12<01:58,	3.82it/s]
Power Factorization:	9%	47/500	[00:12<02:00,	3.77it/s]
Power Factorization:	10%	48/500	[00:12<02:04,	3.64it/s]
Power Factorization:	10%	49/500	[00:13<02:04,	3.61it/s]
Power Factorization:	10%	50/500	[00:13<02:02,	3.69it/s]
Power Factorization:	10%	51/500	[00:13<02:07,	3.53it/s]
Power Factorization:	10%	52/500	[00:13<02:02,	3.66it/s]
Power Factorization:	11%	53/500	[00:14<02:01,	3.67it/s]
Power Factorization:	11%	54/500	[00:14<01:58,	3.77it/s]
Power Factorization:	11%	55/500	[00:15<02:37,	2.83it/s]

Power Factorization: 11%	56/500 [00:15<02:22, 3.11it/s]
Power Factorization: 11%	57/500 [00:15<02:17, 3.22it/s]
Power Factorization: 12%	58/500 [00:15<02:07, 3.46it/s]
Power Factorization: 12%	59/500 [00:16<02:16, 3.24it/s]
Power Factorization: 12%	60/500 [00:16<02:09, 3.39it/s]
Power Factorization: 12%	61/500 [00:16<02:02, 3.58it/s]
Power Factorization: 12%	62/500 [00:17<02:19, 3.15it/s]
Power Factorization: 13%	63/500 [00:17<02:19, 3.13it/s]
Power Factorization: 13%	64/500 [00:17<02:12, 3.30it/s]
Power Factorization: 13%	65/500 [00:18<02:19, 3.11it/s]
Power Factorization: 13%	66/500 [00:18<02:28, 2.92it/s]
Power Factorization: 13%	67/500 [00:18<02:19, 3.10it/s]
Power Factorization: 14%	68/500 [00:18<02:04, 3.46it/s]
Power Factorization: 14%	69/500 [00:19<02:06, 3.40it/s]
Power Factorization: 14%	70/500 [00:19<01:55, 3.72it/s]
Power Factorization: 14%	71/500 [00:19<01:57, 3.64it/s]
Power Factorization: 14%	72/500 [00:19<01:50, 3.87it/s]
Power Factorization: 15%	73/500 [00:20<01:47, 3.97it/s]
Power Factorization: 15%	74/500 [00:20<01:48, 3.91it/s]
Power Factorization: 15%	75/500 [00:20<01:49, 3.87it/s]
Power Factorization: 15%	76/500 [00:20<01:52, 3.77it/s]
Power Factorization: 15%	77/500 [00:21<01:56, 3.62it/s]
Power Factorization: 16%	78/500 [00:21<01:55, 3.66it/s]
Power Factorization: 16%	79/500 [00:21<01:53, 3.69it/s]

Power Factorization: 16%	80/500 [00:22<01:57, 3.59it/s]
Power Factorization: 16%	81/500 [00:22<02:06, 3.32it/s]
Power Factorization: 16%	82/500 [00:22<02:21, 2.95it/s]
Power Factorization: 17%	83/500 [00:23<02:11, 3.18it/s]
Power Factorization: 17%	84/500 [00:23<02:01, 3.41it/s]
Power Factorization: 17%	85/500 [00:23<01:53, 3.65it/s]
Power Factorization: 17%	86/500 [00:23<01:51, 3.70it/s]
Power Factorization: 17%	87/500 [00:24<01:49, 3.77it/s]
Power Factorization: 18%	88/500 [00:24<01:46, 3.88it/s]
Power Factorization: 18%	89/500 [00:24<01:51, 3.69it/s]
Power Factorization: 18%	90/500 [00:24<01:57, 3.49it/s]
Power Factorization: 18%	91/500 [00:25<01:53, 3.60it/s]
Power Factorization: 18%	92/500 [00:25<01:57, 3.48it/s]
Power Factorization: 19%	93/500 [00:25<01:54, 3.54it/s]
Power Factorization: 19%	94/500 [00:26<02:01, 3.35it/s]
Power Factorization: 19%	95/500 [00:26<02:01, 3.33it/s]
Power Factorization: 19%	96/500 [00:26<01:56, 3.46it/s]
Power Factorization: 19%	97/500 [00:26<01:52, 3.57it/s]
Power Factorization: 20%	98/500 [00:27<01:53, 3.55it/s]
Power Factorization: 20%	99/500 [00:27<02:01, 3.31it/s]
Power Factorization: 20%	100/500 [00:27<01:57, 3.41it/s]
Power Factorization: 20%	101/500 [00:28<01:49, 3.64it/s]
Power Factorization: 20%	102/500 [00:28<01:50, 3.59it/s]
Power Factorization: 21%	103/500 [00:28<01:45, 3.75it/s]

Power Factorization: 21%	104/500 [00:28<01:54, 3.47it/s]
Power Factorization: 21%	105/500 [00:29<01:50, 3.57it/s]
Power Factorization: 21%	106/500 [00:29<02:05, 3.13it/s]
Power Factorization: 21%	107/500 [00:30<02:11, 2.98it/s]
Power Factorization: 22%	108/500 [00:30<02:10, 3.00it/s]
Power Factorization: 22%	109/500 [00:30<01:59, 3.28it/s]
Power Factorization: 22%	110/500 [00:30<01:48, 3.60it/s]
Power Factorization: 22%	111/500 [00:31<01:45, 3.70it/s]
Power Factorization: 22%	112/500 [00:31<01:45, 3.68it/s]
Power Factorization: 23%	113/500 [00:31<01:37, 3.96it/s]
Power Factorization: 23%	114/500 [00:31<01:33, 4.13it/s]
Power Factorization: 23%	115/500 [00:32<01:35, 4.05it/s]
Power Factorization: 23%	116/500 [00:32<01:34, 4.08it/s]
Power Factorization: 23%	117/500 [00:32<01:31, 4.20it/s]
Power Factorization: 24%	118/500 [00:32<01:31, 4.15it/s]
Power Factorization: 24%	119/500 [00:33<01:35, 4.00it/s]
Power Factorization: 24%	120/500 [00:33<01:31, 4.16it/s]
Power Factorization: 24%	121/500 [00:33<01:38, 3.86it/s]
Power Factorization: 24%	122/500 [00:33<01:48, 3.47it/s]
Power Factorization: 25%	123/500 [00:34<02:00, 3.12it/s]
Power Factorization: 25%	124/500 [00:34<02:06, 2.96it/s]
Power Factorization: 25%	125/500 [00:35<02:08, 2.91it/s]
Power Factorization: 25%	126/500 [00:35<01:58, 3.16it/s]
Power Factorization: 25%	127/500 [00:35<01:54, 3.26it/s]

Power Factorization: 26%	128/500 [00:35<01:57, 3.16it/s]
Power Factorization: 26%	129/500 [00:36<02:10, 2.85it/s]
Power Factorization: 26%	130/500 [00:36<02:05, 2.96it/s]
Power Factorization: 26%	131/500 [00:36<01:56, 3.16it/s]
Power Factorization: 26%	132/500 [00:37<01:50, 3.32it/s]
Power Factorization: 27%	133/500 [00:37<01:47, 3.42it/s]
Power Factorization: 27%	134/500 [00:37<01:50, 3.33it/s]
Power Factorization: 27%	135/500 [00:38<01:45, 3.46it/s]
Power Factorization: 27%	136/500 [00:38<01:41, 3.59it/s]
Power Factorization: 27%	137/500 [00:38<01:37, 3.73it/s]
Power Factorization: 28%	138/500 [00:38<01:33, 3.86it/s]
Power Factorization: 28%	139/500 [00:38<01:30, 3.99it/s]
Power Factorization: 28%	140/500 [00:39<01:54, 3.13it/s]
Power Factorization: 28%	141/500 [00:39<01:47, 3.35it/s]
Power Factorization: 28%	142/500 [00:39<01:41, 3.53it/s]
Power Factorization: 29%	143/500 [00:40<01:36, 3.69it/s]
Power Factorization: 29%	144/500 [00:40<01:35, 3.71it/s]
Power Factorization: 29%	145/500 [00:40<01:35, 3.73it/s]
Power Factorization: 29%	146/500 [00:40<01:33, 3.80it/s]
Power Factorization: 29%	147/500 [00:41<01:36, 3.66it/s]
Power Factorization: 30%	148/500 [00:41<01:34, 3.73it/s]
Power Factorization: 30%	149/500 [00:41<01:29, 3.92it/s]
Power Factorization: 30%	150/500 [00:42<01:31, 3.81it/s]
Power Factorization: 30%	151/500 [00:42<01:30, 3.84it/s]

Power Factorization: 30%	152/500 [00:42<01:27, 3.96it/s]
Power Factorization: 31%	153/500 [00:42<01:24, 4.11it/s]
Power Factorization: 31%	154/500 [00:43<01:25, 4.03it/s]
Power Factorization: 31%	155/500 [00:43<01:26, 3.98it/s]
Power Factorization: 31%	156/500 [00:43<01:27, 3.93it/s]
Power Factorization: 31%	157/500 [00:43<01:29, 3.85it/s]
Power Factorization: 32%	158/500 [00:44<01:24, 4.03it/s]
Power Factorization: 32%	159/500 [00:44<01:24, 4.04it/s]
Power Factorization: 32%	160/500 [00:44<01:25, 4.00it/s]
Power Factorization: 32%	161/500 [00:44<01:23, 4.06it/s]
Power Factorization: 32%	162/500 [00:45<01:22, 4.10it/s]
Power Factorization: 33%	163/500 [00:45<01:24, 4.00it/s]
Power Factorization: 33%	164/500 [00:45<01:23, 4.02it/s]
Power Factorization: 33%	165/500 [00:45<01:32, 3.62it/s]
Power Factorization: 33%	166/500 [00:46<01:32, 3.61it/s]
Power Factorization: 33%	167/500 [00:46<01:30, 3.69it/s]
Power Factorization: 34%	168/500 [00:46<01:25, 3.88it/s]
Power Factorization: 34%	169/500 [00:46<01:35, 3.45it/s]
Power Factorization: 34%	170/500 [00:47<01:35, 3.44it/s]
Power Factorization: 34%	171/500 [00:47<01:34, 3.47it/s]
Power Factorization: 34%	172/500 [00:47<01:32, 3.56it/s]
Power Factorization: 35%	173/500 [00:48<01:33, 3.48it/s]
Power Factorization: 35%	174/500 [00:48<01:30, 3.62it/s]
Power Factorization: 35%	175/500 [00:48<01:29, 3.65it/s]

Power Factorization: 35%	176/500 [00:48<01:28,	3.67it/s]
Power Factorization: 35%	177/500 [00:49<01:28,	3.63it/s]
Power Factorization: 36%	178/500 [00:49<01:28,	3.66it/s]
Power Factorization: 36%	179/500 [00:49<01:29,	3.58it/s]
Power Factorization: 36%	180/500 [00:50<01:25,	3.73it/s]
Power Factorization: 36%	181/500 [00:50<01:25,	3.74it/s]
Power Factorization: 36%	182/500 [00:50<01:28,	3.60it/s]
Power Factorization: 37%	183/500 [00:50<01:27,	3.63it/s]
Power Factorization: 37%	184/500 [00:51<01:24,	3.73it/s]
Power Factorization: 37%	185/500 [00:51<01:25,	3.69it/s]
Power Factorization: 37%	186/500 [00:51<01:26,	3.62it/s]
Power Factorization: 37%	187/500 [00:51<01:26,	3.63it/s]
Power Factorization: 38%	188/500 [00:52<01:23,	3.74it/s]
Power Factorization: 38%	189/500 [00:52<01:23,	3.74it/s]
Power Factorization: 38%	190/500 [00:52<01:20,	3.85it/s]
Power Factorization: 38%	191/500 [00:52<01:22,	3.75it/s]
Power Factorization: 38%	192/500 [00:53<01:20,	3.81it/s]
Power Factorization: 39%	193/500 [00:53<01:24,	3.64it/s]
Power Factorization: 39%	194/500 [00:53<01:20,	3.78it/s]
Power Factorization: 39%	195/500 [00:54<01:23,	3.67it/s]
Power Factorization: 39%	196/500 [00:54<01:30,	3.34it/s]
Power Factorization: 39%	197/500 [00:54<01:34,	3.21it/s]
Power Factorization: 40%	198/500 [00:55<01:31,	3.31it/s]
Power Factorization: 40%	199/500 [00:55<01:46,	2.82it/s]

Power Factorization: 40%	200/500 [00:55<01:43,	2.91it/s]
Power Factorization: 40%	201/500 [00:56<01:34,	3.15it/s]
Power Factorization: 40%	202/500 [00:56<01:32,	3.23it/s]
Power Factorization: 41%	203/500 [00:56<01:31,	3.26it/s]
Power Factorization: 41%	204/500 [00:56<01:30,	3.26it/s]
Power Factorization: 41%	205/500 [00:57<01:30,	3.26it/s]
Power Factorization: 41%	206/500 [00:57<01:26,	3.40it/s]
Power Factorization: 41%	207/500 [00:57<01:35,	3.06it/s]
Power Factorization: 42%	208/500 [00:58<01:34,	3.09it/s]
Power Factorization: 42%	209/500 [00:58<01:37,	2.99it/s]
Power Factorization: 42%	210/500 [00:58<01:35,	3.05it/s]
Power Factorization: 42%	211/500 [00:59<01:30,	3.21it/s]
Power Factorization: 42%	212/500 [00:59<01:28,	3.26it/s]
Power Factorization: 43%	213/500 [00:59<01:29,	3.22it/s]
Power Factorization: 43%	214/500 [01:00<01:22,	3.45it/s]
Power Factorization: 43%	215/500 [01:00<01:20,	3.55it/s]
Power Factorization: 43%	216/500 [01:00<01:18,	3.63it/s]
Power Factorization: 43%	217/500 [01:00<01:17,	3.64it/s]
Power Factorization: 44%	218/500 [01:01<01:18,	3.60it/s]
Power Factorization: 44%	219/500 [01:01<01:16,	3.69it/s]
Power Factorization: 44%	220/500 [01:01<01:17,	3.61it/s]
Power Factorization: 44%	221/500 [01:02<01:21,	3.41it/s]
Power Factorization: 44%	222/500 [01:02<01:23,	3.32it/s]
Power Factorization: 45%	223/500 [01:02<01:45,	2.64it/s]

Power Factorization: 45%	224/500 [01:03<01:33, 2.95it/s]
Power Factorization: 45%	225/500 [01:03<01:23, 3.29it/s]
Power Factorization: 45%	226/500 [01:03<01:18, 3.47it/s]
Power Factorization: 45%	227/500 [01:03<01:16, 3.58it/s]
Power Factorization: 46%	228/500 [01:04<01:10, 3.88it/s]
Power Factorization: 46%	229/500 [01:04<01:19, 3.41it/s]
Power Factorization: 46%	230/500 [01:04<01:28, 3.05it/s]
Power Factorization: 46%	231/500 [01:05<01:18, 3.41it/s]
Power Factorization: 46%	232/500 [01:05<01:16, 3.52it/s]
Power Factorization: 47%	233/500 [01:05<01:15, 3.55it/s]
Power Factorization: 47%	234/500 [01:05<01:14, 3.57it/s]
Power Factorization: 47%	235/500 [01:06<01:13, 3.59it/s]
Power Factorization: 47%	236/500 [01:06<01:10, 3.73it/s]
Power Factorization: 47%	237/500 [01:06<01:10, 3.72it/s]
Power Factorization: 48%	238/500 [01:07<01:14, 3.54it/s]
Power Factorization: 48%	239/500 [01:07<01:10, 3.70it/s]
Power Factorization: 48%	240/500 [01:07<01:06, 3.92it/s]
Power Factorization: 48%	241/500 [01:07<01:05, 3.95it/s]
Power Factorization: 48%	242/500 [01:07<01:03, 4.07it/s]
Power Factorization: 49%	243/500 [01:08<01:04, 3.98it/s]
Power Factorization: 49%	244/500 [01:08<01:04, 3.97it/s]
Power Factorization: 49%	245/500 [01:08<01:08, 3.75it/s]
Power Factorization: 49%	246/500 [01:08<01:01, 4.11it/s]
Power Factorization: 49%	247/500 [01:09<01:05, 3.88it/s]

Power Factorization: 50%	248/500 [01:09<01:05, 3.84it/s]
Power Factorization: 50%	249/500 [01:09<01:03, 3.97it/s]
Power Factorization: 50%	250/500 [01:10<01:02, 3.99it/s]
Power Factorization: 50%	251/500 [01:10<00:59, 4.16it/s]
Power Factorization: 50%	252/500 [01:10<01:00, 4.10it/s]
Power Factorization: 51%	253/500 [01:10<00:59, 4.12it/s]
Power Factorization: 51%	254/500 [01:10<00:58, 4.21it/s]
Power Factorization: 51%	255/500 [01:11<01:00, 4.07it/s]
Power Factorization: 51%	256/500 [01:11<01:03, 3.84it/s]
Power Factorization: 51%	257/500 [01:11<01:06, 3.67it/s]
Power Factorization: 52%	258/500 [01:12<01:07, 3.59it/s]
Power Factorization: 52%	259/500 [01:12<01:04, 3.74it/s]
Power Factorization: 52%	260/500 [01:12<01:03, 3.79it/s]
Power Factorization: 52%	261/500 [01:12<01:02, 3.82it/s]
Power Factorization: 52%	262/500 [01:13<01:04, 3.70it/s]
Power Factorization: 53%	263/500 [01:13<01:02, 3.77it/s]
Power Factorization: 53%	264/500 [01:13<01:03, 3.69it/s]
Power Factorization: 53%	265/500 [01:13<01:03, 3.70it/s]
Power Factorization: 53%	266/500 [01:14<01:01, 3.79it/s]
Power Factorization: 53%	267/500 [01:14<00:59, 3.91it/s]
Power Factorization: 54%	268/500 [01:14<01:02, 3.70it/s]
Power Factorization: 54%	269/500 [01:15<01:03, 3.62it/s]
Power Factorization: 54%	270/500 [01:15<00:59, 3.84it/s]
Power Factorization: 54%	271/500 [01:15<00:59, 3.84it/s]

Power Factorization: 54%	272/500 [01:15<00:57, 4.00it/s]
Power Factorization: 55%	273/500 [01:15<00:56, 4.05it/s]
Power Factorization: 55%	274/500 [01:16<00:55, 4.08it/s]
Power Factorization: 55%	275/500 [01:16<00:58, 3.82it/s]
Power Factorization: 55%	276/500 [01:16<01:03, 3.50it/s]
Power Factorization: 55%	277/500 [01:17<01:00, 3.69it/s]
Power Factorization: 56%	278/500 [01:17<01:00, 3.66it/s]
Power Factorization: 56%	279/500 [01:17<00:56, 3.89it/s]
Power Factorization: 56%	280/500 [01:17<00:56, 3.86it/s]
Power Factorization: 56%	281/500 [01:18<00:56, 3.87it/s]
Power Factorization: 56%	282/500 [01:18<00:56, 3.84it/s]
Power Factorization: 57%	283/500 [01:18<00:55, 3.93it/s]
Power Factorization: 57%	284/500 [01:18<00:54, 3.93it/s]
Power Factorization: 57%	285/500 [01:19<00:54, 3.93it/s]
Power Factorization: 57%	286/500 [01:19<00:54, 3.94it/s]
Power Factorization: 57%	287/500 [01:19<00:52, 4.04it/s]
Power Factorization: 58%	288/500 [01:19<00:54, 3.86it/s]
Power Factorization: 58%	289/500 [01:20<00:52, 4.02it/s]
Power Factorization: 58%	290/500 [01:20<00:52, 4.00it/s]
Power Factorization: 58%	291/500 [01:20<00:52, 3.99it/s]
Power Factorization: 58%	292/500 [01:20<00:50, 4.09it/s]
Power Factorization: 59%	293/500 [01:21<00:50, 4.09it/s]
Power Factorization: 59%	294/500 [01:21<00:51, 4.02it/s]
Power Factorization: 59%	295/500 [01:21<00:51, 3.99it/s]

Power Factorization: 59%	296/500 [01:21<00:50, 4.06it/s]
Power Factorization: 59%	297/500 [01:22<00:49, 4.08it/s]
Power Factorization: 60%	298/500 [01:22<00:49, 4.07it/s]
Power Factorization: 60%	299/500 [01:22<00:58, 3.41it/s]
Power Factorization: 60%	300/500 [01:23<01:00, 3.28it/s]
Power Factorization: 60%	301/500 [01:23<01:00, 3.28it/s]
Power Factorization: 60%	302/500 [01:23<01:02, 3.19it/s]
Power Factorization: 61%	303/500 [01:23<00:58, 3.36it/s]
Power Factorization: 61%	304/500 [01:24<00:56, 3.47it/s]
Power Factorization: 61%	305/500 [01:24<00:59, 3.27it/s]
Power Factorization: 61%	306/500 [01:24<00:56, 3.43it/s]
Power Factorization: 61%	307/500 [01:25<00:54, 3.55it/s]
Power Factorization: 62%	308/500 [01:25<01:09, 2.78it/s]
Power Factorization: 62%	309/500 [01:26<01:08, 2.79it/s]
Power Factorization: 62%	310/500 [01:26<01:04, 2.93it/s]
Power Factorization: 62%	311/500 [01:26<00:59, 3.17it/s]
Power Factorization: 62%	312/500 [01:26<00:55, 3.41it/s]
Power Factorization: 63%	313/500 [01:27<00:53, 3.50it/s]
Power Factorization: 63%	314/500 [01:27<00:49, 3.74it/s]
Power Factorization: 63%	315/500 [01:27<00:50, 3.70it/s]
Power Factorization: 63%	316/500 [01:27<00:53, 3.46it/s]
Power Factorization: 63%	317/500 [01:28<00:55, 3.32it/s]
Power Factorization: 64%	318/500 [01:28<00:51, 3.52it/s]
Power Factorization: 64%	319/500 [01:28<00:48, 3.74it/s]

Power Factorization: 64%	320/500 [01:29<00:51, 3.53it/s]
Power Factorization: 64%	321/500 [01:29<00:56, 3.15it/s]
Power Factorization: 64%	322/500 [01:29<00:52, 3.41it/s]
Power Factorization: 65%	323/500 [01:29<00:52, 3.38it/s]
Power Factorization: 65%	324/500 [01:30<00:49, 3.55it/s]
Power Factorization: 65%	325/500 [01:30<00:49, 3.54it/s]
Power Factorization: 65%	326/500 [01:30<00:46, 3.71it/s]
Power Factorization: 65%	327/500 [01:30<00:44, 3.85it/s]
Power Factorization: 66%	328/500 [01:31<00:44, 3.85it/s]
Power Factorization: 66%	329/500 [01:31<00:45, 3.77it/s]
Power Factorization: 66%	330/500 [01:31<00:43, 3.91it/s]
Power Factorization: 66%	331/500 [01:32<00:44, 3.78it/s]
Power Factorization: 66%	332/500 [01:32<00:45, 3.70it/s]
Power Factorization: 67%	333/500 [01:32<00:45, 3.66it/s]
Power Factorization: 67%	334/500 [01:32<00:45, 3.64it/s]
Power Factorization: 67%	335/500 [01:33<00:43, 3.76it/s]
Power Factorization: 67%	336/500 [01:33<00:51, 3.18it/s]
Power Factorization: 67%	337/500 [01:33<00:54, 2.98it/s]
Power Factorization: 68%	338/500 [01:34<00:50, 3.23it/s]
Power Factorization: 68%	339/500 [01:34<00:50, 3.17it/s]
Power Factorization: 68%	340/500 [01:34<00:46, 3.48it/s]
Power Factorization: 68%	341/500 [01:35<00:45, 3.53it/s]
Power Factorization: 68%	342/500 [01:35<00:44, 3.58it/s]
Power Factorization: 69%	343/500 [01:35<00:43, 3.58it/s]

Power Factorization: 69%	344/500 [01:35<00:44,	3.50it/s]
Power Factorization: 69%	345/500 [01:36<00:45,	3.39it/s]
Power Factorization: 69%	346/500 [01:36<00:51,	2.99it/s]
Power Factorization: 69%	347/500 [01:36<00:48,	3.14it/s]
Power Factorization: 70%	348/500 [01:37<00:45,	3.33it/s]
Power Factorization: 70%	349/500 [01:37<00:42,	3.52it/s]
Power Factorization: 70%	350/500 [01:37<00:41,	3.63it/s]
Power Factorization: 70%	351/500 [01:37<00:37,	3.97it/s]
Power Factorization: 70%	352/500 [01:38<00:37,	3.94it/s]
Power Factorization: 71%	353/500 [01:38<00:36,	4.03it/s]
Power Factorization: 71%	354/500 [01:38<00:36,	4.05it/s]
Power Factorization: 71%	355/500 [01:38<00:38,	3.81it/s]
Power Factorization: 71%	356/500 [01:39<00:36,	3.90it/s]
Power Factorization: 71%	357/500 [01:39<00:36,	3.93it/s]
Power Factorization: 72%	358/500 [01:39<00:33,	4.23it/s]
Power Factorization: 72%	359/500 [01:39<00:35,	3.92it/s]
Power Factorization: 72%	360/500 [01:40<00:36,	3.87it/s]
Power Factorization: 72%	361/500 [01:40<00:35,	3.87it/s]
Power Factorization: 72%	362/500 [01:40<00:36,	3.78it/s]
Power Factorization: 73%	363/500 [01:41<00:40,	3.34it/s]
Power Factorization: 73%	364/500 [01:41<00:42,	3.16it/s]
Power Factorization: 73%	365/500 [01:41<00:40,	3.33it/s]
Power Factorization: 73%	366/500 [01:41<00:38,	3.50it/s]
Power Factorization: 73%	367/500 [01:42<00:42,	3.13it/s]

Power Factorization: 74%	368/500 [01:42<00:43, 3.01it/s]
Power Factorization: 74%	369/500 [01:42<00:41, 3.18it/s]
Power Factorization: 74%	370/500 [01:43<00:37, 3.51it/s]
Power Factorization: 74%	371/500 [01:43<00:35, 3.59it/s]
Power Factorization: 74%	372/500 [01:43<00:34, 3.71it/s]
Power Factorization: 75%	373/500 [01:43<00:32, 3.85it/s]
Power Factorization: 75%	374/500 [01:44<00:31, 4.03it/s]
Power Factorization: 75%	375/500 [01:44<00:31, 3.94it/s]
Power Factorization: 75%	376/500 [01:44<00:30, 4.05it/s]
Power Factorization: 75%	377/500 [01:44<00:29, 4.13it/s]
Power Factorization: 76%	378/500 [01:45<00:30, 4.02it/s]
Power Factorization: 76%	379/500 [01:45<00:35, 3.42it/s]
Power Factorization: 76%	380/500 [01:45<00:36, 3.25it/s]
Power Factorization: 76%	381/500 [01:46<00:33, 3.52it/s]
Power Factorization: 76%	382/500 [01:46<00:33, 3.49it/s]
Power Factorization: 77%	383/500 [01:46<00:32, 3.60it/s]
Power Factorization: 77%	384/500 [01:46<00:31, 3.64it/s]
Power Factorization: 77%	385/500 [01:47<00:42, 2.73it/s]
Power Factorization: 77%	386/500 [01:47<00:38, 3.00it/s]
Power Factorization: 77%	387/500 [01:47<00:34, 3.28it/s]
Power Factorization: 78%	388/500 [01:48<00:33, 3.38it/s]
Power Factorization: 78%	389/500 [01:48<00:31, 3.48it/s]
Power Factorization: 78%	390/500 [01:48<00:28, 3.82it/s]
Power Factorization: 78%	391/500 [01:48<00:28, 3.77it/s]

Power Factorization: 78%	392/500 [01:49<00:29, 3.64it/s]
Power Factorization: 79%	393/500 [01:49<00:29, 3.65it/s]
Power Factorization: 79%	394/500 [01:49<00:29, 3.63it/s]
Power Factorization: 79%	395/500 [01:50<00:27, 3.85it/s]
Power Factorization: 79%	396/500 [01:50<00:26, 3.92it/s]
Power Factorization: 79%	397/500 [01:50<00:26, 3.92it/s]
Power Factorization: 80%	398/500 [01:50<00:24, 4.09it/s]
Power Factorization: 80%	399/500 [01:51<00:23, 4.21it/s]
Power Factorization: 80%	400/500 [01:51<00:25, 3.95it/s]
Power Factorization: 80%	401/500 [01:51<00:24, 4.11it/s]
Power Factorization: 80%	402/500 [01:51<00:25, 3.92it/s]
Power Factorization: 81%	403/500 [01:52<00:26, 3.59it/s]
Power Factorization: 81%	404/500 [01:52<00:26, 3.58it/s]
Power Factorization: 81%	405/500 [01:52<00:28, 3.28it/s]
Power Factorization: 81%	406/500 [01:53<00:28, 3.28it/s]
Power Factorization: 81%	407/500 [01:53<00:27, 3.33it/s]
Power Factorization: 82%	408/500 [01:53<00:27, 3.36it/s]
Power Factorization: 82%	409/500 [01:53<00:27, 3.32it/s]
Power Factorization: 82%	410/500 [01:54<00:28, 3.15it/s]
Power Factorization: 82%	411/500 [01:54<00:27, 3.18it/s]
Power Factorization: 82%	412/500 [01:54<00:25, 3.39it/s]
Power Factorization: 83%	413/500 [01:55<00:24, 3.51it/s]
Power Factorization: 83%	414/500 [01:55<00:24, 3.58it/s]
Power Factorization: 83%	415/500 [01:55<00:22, 3.84it/s]

Power Factorization: 83%	416/500 [01:55<00:22,	3.72it/s]
Power Factorization: 83%	417/500 [01:56<00:22,	3.62it/s]
Power Factorization: 84%	418/500 [01:56<00:22,	3.66it/s]
Power Factorization: 84%	419/500 [01:56<00:21,	3.70it/s]
Power Factorization: 84%	420/500 [01:56<00:20,	3.85it/s]
Power Factorization: 84%	421/500 [01:57<00:22,	3.45it/s]
Power Factorization: 84%	422/500 [01:57<00:24,	3.19it/s]
Power Factorization: 85%	423/500 [01:57<00:22,	3.40it/s]
Power Factorization: 85%	424/500 [01:58<00:21,	3.57it/s]
Power Factorization: 85%	425/500 [01:58<00:20,	3.66it/s]
Power Factorization: 85%	426/500 [01:58<00:19,	3.82it/s]
Power Factorization: 85%	427/500 [01:58<00:18,	3.95it/s]
Power Factorization: 86%	428/500 [01:59<00:18,	3.90it/s]
Power Factorization: 86%	429/500 [01:59<00:18,	3.93it/s]
Power Factorization: 86%	430/500 [01:59<00:17,	4.02it/s]
Power Factorization: 86%	431/500 [01:59<00:16,	4.27it/s]
Power Factorization: 86%	432/500 [02:00<00:19,	3.51it/s]
Power Factorization: 87%	433/500 [02:00<00:20,	3.20it/s]
Power Factorization: 87%	434/500 [02:00<00:18,	3.50it/s]
Power Factorization: 87%	435/500 [02:01<00:17,	3.76it/s]
Power Factorization: 87%	436/500 [02:01<00:16,	3.89it/s]
Power Factorization: 87%	437/500 [02:01<00:18,	3.32it/s]
Power Factorization: 88%	438/500 [02:02<00:19,	3.22it/s]
Power Factorization: 88%	439/500 [02:02<00:17,	3.45it/s]

Power Factorization: 88%	440/500 [02:02<00:16,	3.62it/s]
Power Factorization: 88%	441/500 [02:02<00:15,	3.69it/s]
Power Factorization: 88%	442/500 [02:03<00:14,	4.00it/s]
Power Factorization: 89%	443/500 [02:03<00:13,	4.18it/s]
Power Factorization: 89%	444/500 [02:03<00:14,	3.91it/s]
Power Factorization: 89%	445/500 [02:03<00:14,	3.87it/s]
Power Factorization: 89%	446/500 [02:04<00:14,	3.83it/s]
Power Factorization: 89%	447/500 [02:04<00:13,	3.92it/s]
Power Factorization: 90%	448/500 [02:04<00:13,	3.92it/s]
Power Factorization: 90%	449/500 [02:04<00:12,	3.93it/s]
Power Factorization: 90%	450/500 [02:05<00:12,	3.95it/s]
Power Factorization: 90%	451/500 [02:05<00:12,	3.91it/s]
Power Factorization: 90%	452/500 [02:05<00:12,	3.97it/s]
Power Factorization: 91%	453/500 [02:05<00:12,	3.82it/s]
Power Factorization: 91%	454/500 [02:06<00:12,	3.82it/s]
Power Factorization: 91%	455/500 [02:06<00:11,	3.85it/s]
Power Factorization: 91%	456/500 [02:06<00:11,	3.76it/s]
Power Factorization: 91%	457/500 [02:06<00:11,	3.88it/s]
Power Factorization: 92%	458/500 [02:07<00:12,	3.50it/s]
Power Factorization: 92%	459/500 [02:07<00:11,	3.48it/s]
Power Factorization: 92%	460/500 [02:07<00:11,	3.59it/s]
Power Factorization: 92%	461/500 [02:08<00:10,	3.78it/s]
Power Factorization: 92%	462/500 [02:08<00:10,	3.74it/s]
Power Factorization: 93%	463/500 [02:08<00:11,	3.11it/s]

Power Factorization: 93%	464/500 [02:09<00:10, 3.28it/s]
Power Factorization: 93%	465/500 [02:09<00:10, 3.34it/s]
Power Factorization: 93%	466/500 [02:09<00:09, 3.54it/s]
Power Factorization: 93%	467/500 [02:09<00:09, 3.65it/s]
Power Factorization: 94%	468/500 [02:10<00:08, 3.76it/s]
Power Factorization: 94%	469/500 [02:10<00:08, 3.85it/s]
Power Factorization: 94%	470/500 [02:10<00:08, 3.66it/s]
Power Factorization: 94%	471/500 [02:10<00:07, 3.94it/s]
Power Factorization: 94%	472/500 [02:11<00:06, 4.08it/s]
Power Factorization: 95%	473/500 [02:11<00:06, 3.88it/s]
Power Factorization: 95%	474/500 [02:11<00:06, 3.97it/s]
Power Factorization: 95%	475/500 [02:11<00:06, 3.88it/s]
Power Factorization: 95%	476/500 [02:12<00:06, 3.80it/s]
Power Factorization: 95%	477/500 [02:12<00:06, 3.76it/s]
Power Factorization: 96%	478/500 [02:12<00:05, 4.11it/s]
Power Factorization: 96%	479/500 [02:12<00:05, 4.11it/s]
Power Factorization: 96%	480/500 [02:13<00:04, 4.02it/s]
Power Factorization: 96%	481/500 [02:13<00:04, 3.84it/s]
Power Factorization: 96%	482/500 [02:13<00:04, 3.86it/s]
Power Factorization: 97%	483/500 [02:13<00:04, 3.71it/s]
Power Factorization: 97%	484/500 [02:14<00:04, 3.69it/s]
Power Factorization: 97%	485/500 [02:14<00:03, 3.76it/s]
Power Factorization: 97%	486/500 [02:14<00:03, 3.76it/s]
Power Factorization: 97%	487/500 [02:14<00:03, 3.84it/s]

Power Factorization: 98%	488/500 [02:15<00:02, 4.05it/s]
Power Factorization: 98%	489/500 [02:15<00:02, 3.88it/s]
Power Factorization: 98%	490/500 [02:15<00:02, 3.95it/s]
Power Factorization: 98%	491/500 [02:15<00:02, 3.68it/s]
Power Factorization: 98%	492/500 [02:16<00:02, 3.89it/s]
Power Factorization: 99%	493/500 [02:16<00:01, 4.05it/s]
Power Factorization: 99%	494/500 [02:16<00:01, 4.21it/s]
Power Factorization: 99%	495/500 [02:16<00:01, 4.14it/s]
Power Factorization: 99%	496/500 [02:17<00:00, 4.09it/s]
Power Factorization: 99%	497/500 [02:17<00:00, 3.93it/s]
Power Factorization: 100%	498/500 [02:17<00:00, 3.82it/s]
Power Factorization: 100%	499/500 [02:17<00:00, 3.78it/s]
Power Factorization: 100%	500/500 [02:18<00:00, 3.61it/s]
Cross Validation: 80%	4/5 [09:21<02:20, 140.71s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:53, 2.13it/s]
Power Factorization: 0%	2/500 [00:00<03:03, 2.71it/s]
Power Factorization: 1%	3/500 [00:01<03:28, 2.38it/s]
Power Factorization: 1%	4/500 [00:01<03:10, 2.61it/s]
Power Factorization: 1%	5/500 [00:01<02:56, 2.81it/s]
Power Factorization: 1%	6/500 [00:02<02:42, 3.03it/s]
Power Factorization: 1%	7/500 [00:02<02:39, 3.08it/s]
Power Factorization: 2%	8/500 [00:02<02:33, 3.20it/s]
Power Factorization: 2%	9/500 [00:03<02:25, 3.37it/s]

Power Factorization:	2%	10/500	[00:03<02:31,	3.24it/s]
Power Factorization:	2%	11/500	[00:03<02:31,	3.23it/s]
Power Factorization:	2%	12/500	[00:03<02:31,	3.23it/s]
Power Factorization:	3%	13/500	[00:04<02:22,	3.41it/s]
Power Factorization:	3%	14/500	[00:04<02:23,	3.39it/s]
Power Factorization:	3%	15/500	[00:04<02:25,	3.33it/s]
Power Factorization:	3%	16/500	[00:05<02:21,	3.43it/s]
Power Factorization:	3%	17/500	[00:05<02:15,	3.56it/s]
Power Factorization:	4%	18/500	[00:05<02:16,	3.54it/s]
Power Factorization:	4%	19/500	[00:05<02:13,	3.59it/s]
Power Factorization:	4%	20/500	[00:06<02:15,	3.53it/s]
Power Factorization:	4%	21/500	[00:06<02:07,	3.75it/s]
Power Factorization:	4%	22/500	[00:06<02:16,	3.51it/s]
Power Factorization:	5%	23/500	[00:07<02:21,	3.37it/s]
Power Factorization:	5%	24/500	[00:07<02:16,	3.49it/s]
Power Factorization:	5%	25/500	[00:07<02:15,	3.51it/s]
Power Factorization:	5%	26/500	[00:07<02:09,	3.65it/s]
Power Factorization:	5%	27/500	[00:08<02:04,	3.79it/s]
Power Factorization:	6%	28/500	[00:08<02:13,	3.53it/s]
Power Factorization:	6%	29/500	[00:08<02:09,	3.62it/s]
Power Factorization:	6%	30/500	[00:08<02:03,	3.79it/s]
Power Factorization:	6%	31/500	[00:09<01:58,	3.96it/s]
Power Factorization:	6%	32/500	[00:09<01:59,	3.93it/s]
Power Factorization:	7%	33/500	[00:09<01:57,	3.96it/s]

Power Factorization:	7%	34/500 [00:10<02:50, 2.73it/s]
Power Factorization:	7%	35/500 [00:10<02:36, 2.97it/s]
Power Factorization:	7%	36/500 [00:10<02:26, 3.16it/s]
Power Factorization:	7%	37/500 [00:11<02:21, 3.27it/s]
Power Factorization:	8%	38/500 [00:11<02:17, 3.37it/s]
Power Factorization:	8%	39/500 [00:11<02:14, 3.43it/s]
Power Factorization:	8%	40/500 [00:11<02:07, 3.61it/s]
Power Factorization:	8%	41/500 [00:12<02:03, 3.71it/s]
Power Factorization:	8%	42/500 [00:12<01:57, 3.91it/s]
Power Factorization:	9%	43/500 [00:12<01:54, 3.98it/s]
Power Factorization:	9%	44/500 [00:12<01:50, 4.14it/s]
Power Factorization:	9%	45/500 [00:13<02:11, 3.45it/s]
Power Factorization:	9%	46/500 [00:13<02:21, 3.22it/s]
Power Factorization:	9%	47/500 [00:14<02:31, 2.98it/s]
Power Factorization:	10%	48/500 [00:14<02:22, 3.18it/s]
Power Factorization:	10%	49/500 [00:14<02:17, 3.28it/s]
Power Factorization:	10%	50/500 [00:14<02:15, 3.32it/s]
Power Factorization:	10%	51/500 [00:15<02:04, 3.59it/s]
Power Factorization:	10%	52/500 [00:15<02:00, 3.72it/s]
Power Factorization:	11%	53/500 [00:15<02:00, 3.70it/s]
Power Factorization:	11%	54/500 [00:15<02:02, 3.64it/s]
Power Factorization:	11%	55/500 [00:16<01:59, 3.72it/s]
Power Factorization:	11%	56/500 [00:16<01:59, 3.72it/s]
Power Factorization:	11%	57/500 [00:16<01:54, 3.86it/s]

Power Factorization: 12%	58/500 [00:16<01:50, 4.01it/s]
Power Factorization: 12%	59/500 [00:17<01:48, 4.05it/s]
Power Factorization: 12%	60/500 [00:17<01:50, 4.00it/s]
Power Factorization: 12%	61/500 [00:17<01:57, 3.74it/s]
Power Factorization: 12%	62/500 [00:17<01:55, 3.78it/s]
Power Factorization: 13%	63/500 [00:18<01:53, 3.85it/s]
Power Factorization: 13%	64/500 [00:18<01:54, 3.82it/s]
Power Factorization: 13%	65/500 [00:18<02:27, 2.95it/s]
Power Factorization: 13%	66/500 [00:19<02:15, 3.20it/s]
Power Factorization: 13%	67/500 [00:19<02:39, 2.72it/s]
Power Factorization: 14%	68/500 [00:20<02:39, 2.71it/s]
Power Factorization: 14%	69/500 [00:20<02:28, 2.90it/s]
Power Factorization: 14%	70/500 [00:20<02:18, 3.10it/s]
Power Factorization: 14%	71/500 [00:20<02:15, 3.17it/s]
Power Factorization: 14%	72/500 [00:21<02:08, 3.33it/s]
Power Factorization: 15%	73/500 [00:21<02:06, 3.39it/s]
Power Factorization: 15%	74/500 [00:21<02:04, 3.42it/s]
Power Factorization: 15%	75/500 [00:22<02:06, 3.36it/s]
Power Factorization: 15%	76/500 [00:22<02:04, 3.42it/s]
Power Factorization: 15%	77/500 [00:22<02:10, 3.25it/s]
Power Factorization: 16%	78/500 [00:23<02:13, 3.16it/s]
Power Factorization: 16%	79/500 [00:23<02:03, 3.42it/s]
Power Factorization: 16%	80/500 [00:23<02:02, 3.43it/s]
Power Factorization: 16%	81/500 [00:23<01:57, 3.56it/s]

Power Factorization: 16%	82/500 [00:24<01:56, 3.59it/s]
Power Factorization: 17%	83/500 [00:24<01:54, 3.65it/s]
Power Factorization: 17%	84/500 [00:24<01:52, 3.68it/s]
Power Factorization: 17%	85/500 [00:24<01:46, 3.89it/s]
Power Factorization: 17%	86/500 [00:25<01:51, 3.70it/s]
Power Factorization: 17%	87/500 [00:25<01:57, 3.51it/s]
Power Factorization: 18%	88/500 [00:25<01:52, 3.65it/s]
Power Factorization: 18%	89/500 [00:25<01:49, 3.76it/s]
Power Factorization: 18%	90/500 [00:26<01:49, 3.73it/s]
Power Factorization: 18%	91/500 [00:26<01:46, 3.83it/s]
Power Factorization: 18%	92/500 [00:26<01:51, 3.66it/s]
Power Factorization: 19%	93/500 [00:27<01:57, 3.47it/s]
Power Factorization: 19%	94/500 [00:27<01:56, 3.49it/s]
Power Factorization: 19%	95/500 [00:27<01:47, 3.76it/s]
Power Factorization: 19%	96/500 [00:27<01:46, 3.79it/s]
Power Factorization: 19%	97/500 [00:28<01:44, 3.84it/s]
Power Factorization: 20%	98/500 [00:28<01:45, 3.82it/s]
Power Factorization: 20%	99/500 [00:28<01:46, 3.77it/s]
Power Factorization: 20%	100/500 [00:28<01:47, 3.71it/s]
Power Factorization: 20%	101/500 [00:29<01:39, 4.03it/s]
Power Factorization: 20%	102/500 [00:29<01:51, 3.58it/s]
Power Factorization: 21%	103/500 [00:29<02:06, 3.13it/s]
Power Factorization: 21%	104/500 [00:30<01:56, 3.40it/s]
Power Factorization: 21%	105/500 [00:30<02:15, 2.92it/s]

Power Factorization: 21%	106/500 [00:30<02:05, 3.13it/s]
Power Factorization: 21%	107/500 [00:31<02:01, 3.23it/s]
Power Factorization: 22%	108/500 [00:31<01:49, 3.57it/s]
Power Factorization: 22%	109/500 [00:31<01:42, 3.82it/s]
Power Factorization: 22%	110/500 [00:31<01:43, 3.76it/s]
Power Factorization: 22%	111/500 [00:32<01:48, 3.57it/s]
Power Factorization: 22%	112/500 [00:32<01:53, 3.41it/s]
Power Factorization: 23%	113/500 [00:32<01:48, 3.57it/s]
Power Factorization: 23%	114/500 [00:33<01:46, 3.61it/s]
Power Factorization: 23%	115/500 [00:33<01:43, 3.71it/s]
Power Factorization: 23%	116/500 [00:33<01:43, 3.72it/s]
Power Factorization: 23%	117/500 [00:33<01:39, 3.85it/s]
Power Factorization: 24%	118/500 [00:34<01:43, 3.70it/s]
Power Factorization: 24%	119/500 [00:34<01:38, 3.88it/s]
Power Factorization: 24%	120/500 [00:34<01:35, 3.97it/s]
Power Factorization: 24%	121/500 [00:34<01:34, 4.00it/s]
Power Factorization: 24%	122/500 [00:35<01:31, 4.15it/s]
Power Factorization: 25%	123/500 [00:35<01:33, 4.03it/s]
Power Factorization: 25%	124/500 [00:35<01:33, 4.01it/s]
Power Factorization: 25%	125/500 [00:35<01:32, 4.07it/s]
Power Factorization: 25%	126/500 [00:36<01:31, 4.07it/s]
Power Factorization: 25%	127/500 [00:36<01:34, 3.95it/s]
Power Factorization: 26%	128/500 [00:36<01:45, 3.52it/s]
Power Factorization: 26%	129/500 [00:36<01:41, 3.65it/s]

Power Factorization: 26%	130/500 [00:37<01:37, 3.79it/s]
Power Factorization: 26%	131/500 [00:37<01:35, 3.86it/s]
Power Factorization: 26%	132/500 [00:37<01:32, 3.97it/s]
Power Factorization: 27%	133/500 [00:37<01:34, 3.88it/s]
Power Factorization: 27%	134/500 [00:38<01:31, 3.98it/s]
Power Factorization: 27%	135/500 [00:38<01:34, 3.88it/s]
Power Factorization: 27%	136/500 [00:38<01:33, 3.88it/s]
Power Factorization: 27%	137/500 [00:38<01:31, 3.96it/s]
Power Factorization: 28%	138/500 [00:39<01:30, 4.01it/s]
Power Factorization: 28%	139/500 [00:39<01:29, 4.05it/s]
Power Factorization: 28%	140/500 [00:39<01:29, 4.01it/s]
Power Factorization: 28%	141/500 [00:39<01:29, 4.02it/s]
Power Factorization: 28%	142/500 [00:40<01:30, 3.96it/s]
Power Factorization: 29%	143/500 [00:40<01:33, 3.82it/s]
Power Factorization: 29%	144/500 [00:40<01:33, 3.80it/s]
Power Factorization: 29%	145/500 [00:40<01:33, 3.80it/s]
Power Factorization: 29%	146/500 [00:41<01:32, 3.82it/s]
Power Factorization: 29%	147/500 [00:41<01:44, 3.38it/s]
Power Factorization: 30%	148/500 [00:41<01:53, 3.10it/s]
Power Factorization: 30%	149/500 [00:42<01:41, 3.45it/s]
Power Factorization: 30%	150/500 [00:42<01:36, 3.61it/s]
Power Factorization: 30%	151/500 [00:42<01:31, 3.83it/s]
Power Factorization: 30%	152/500 [00:42<01:34, 3.68it/s]
Power Factorization: 31%	153/500 [00:43<01:29, 3.86it/s]

Power Factorization: 31%	154/500 [00:43<01:28, 3.91it/s]
Power Factorization: 31%	155/500 [00:43<01:25, 4.02it/s]
Power Factorization: 31%	156/500 [00:43<01:24, 4.08it/s]
Power Factorization: 31%	157/500 [00:44<01:37, 3.50it/s]
Power Factorization: 32%	158/500 [00:44<01:45, 3.23it/s]
Power Factorization: 32%	159/500 [00:44<01:39, 3.42it/s]
Power Factorization: 32%	160/500 [00:45<01:36, 3.53it/s]
Power Factorization: 32%	161/500 [00:45<01:34, 3.61it/s]
Power Factorization: 32%	162/500 [00:45<01:30, 3.72it/s]
Power Factorization: 33%	163/500 [00:45<01:32, 3.66it/s]
Power Factorization: 33%	164/500 [00:46<01:26, 3.91it/s]
Power Factorization: 33%	165/500 [00:46<01:23, 4.00it/s]
Power Factorization: 33%	166/500 [00:46<01:26, 3.87it/s]
Power Factorization: 33%	167/500 [00:46<01:24, 3.93it/s]
Power Factorization: 34%	168/500 [00:47<01:22, 4.00it/s]
Power Factorization: 34%	169/500 [00:47<01:22, 4.00it/s]
Power Factorization: 34%	170/500 [00:47<01:24, 3.93it/s]
Power Factorization: 34%	171/500 [00:47<01:26, 3.82it/s]
Power Factorization: 34%	172/500 [00:48<01:25, 3.83it/s]
Power Factorization: 35%	173/500 [00:48<01:21, 4.01it/s]
Power Factorization: 35%	174/500 [00:48<01:22, 3.93it/s]
Power Factorization: 35%	175/500 [00:49<02:01, 2.67it/s]
Power Factorization: 35%	176/500 [00:49<01:49, 2.95it/s]
Power Factorization: 35%	177/500 [00:49<01:43, 3.13it/s]

Power Factorization: 36%	178/500 [00:50<01:38, 3.26it/s]
Power Factorization: 36%	179/500 [00:50<01:34, 3.39it/s]
Power Factorization: 36%	180/500 [00:50<01:32, 3.47it/s]
Power Factorization: 36%	181/500 [00:51<01:39, 3.22it/s]
Power Factorization: 36%	182/500 [00:51<01:34, 3.36it/s]
Power Factorization: 37%	183/500 [00:51<01:28, 3.60it/s]
Power Factorization: 37%	184/500 [00:51<01:33, 3.37it/s]
Power Factorization: 37%	185/500 [00:52<01:33, 3.35it/s]
Power Factorization: 37%	186/500 [00:52<01:27, 3.61it/s]
Power Factorization: 37%	187/500 [00:52<01:27, 3.58it/s]
Power Factorization: 38%	188/500 [00:53<01:27, 3.56it/s]
Power Factorization: 38%	189/500 [00:53<01:24, 3.66it/s]
Power Factorization: 38%	190/500 [00:53<01:37, 3.18it/s]
Power Factorization: 38%	191/500 [00:54<01:48, 2.84it/s]
Power Factorization: 38%	192/500 [00:54<01:41, 3.03it/s]
Power Factorization: 39%	193/500 [00:54<01:33, 3.28it/s]
Power Factorization: 39%	194/500 [00:55<01:41, 3.02it/s]
Power Factorization: 39%	195/500 [00:55<01:39, 3.06it/s]
Power Factorization: 39%	196/500 [00:55<01:30, 3.38it/s]
Power Factorization: 39%	197/500 [00:55<01:24, 3.60it/s]
Power Factorization: 40%	198/500 [00:56<01:23, 3.63it/s]
Power Factorization: 40%	199/500 [00:56<01:20, 3.73it/s]
Power Factorization: 40%	200/500 [00:56<01:17, 3.89it/s]
Power Factorization: 40%	201/500 [00:56<01:18, 3.81it/s]

Power Factorization: 40%	202/500 [00:57<01:17, 3.85it/s]
Power Factorization: 41%	203/500 [00:57<01:16, 3.90it/s]
Power Factorization: 41%	204/500 [00:57<01:15, 3.93it/s]
Power Factorization: 41%	205/500 [00:58<01:28, 3.34it/s]
Power Factorization: 41%	206/500 [00:58<01:36, 3.04it/s]
Power Factorization: 41%	207/500 [00:58<01:26, 3.37it/s]
Power Factorization: 42%	208/500 [00:58<01:24, 3.47it/s]
Power Factorization: 42%	209/500 [00:59<01:25, 3.40it/s]
Power Factorization: 42%	210/500 [00:59<01:31, 3.17it/s]
Power Factorization: 42%	211/500 [00:59<01:29, 3.24it/s]
Power Factorization: 42%	212/500 [01:00<01:21, 3.52it/s]
Power Factorization: 43%	213/500 [01:00<01:19, 3.61it/s]
Power Factorization: 43%	214/500 [01:00<01:15, 3.81it/s]
Power Factorization: 43%	215/500 [01:00<01:15, 3.75it/s]
Power Factorization: 43%	216/500 [01:01<01:14, 3.80it/s]
Power Factorization: 43%	217/500 [01:01<01:11, 3.97it/s]
Power Factorization: 44%	218/500 [01:01<01:11, 3.96it/s]
Power Factorization: 44%	219/500 [01:01<01:09, 4.03it/s]
Power Factorization: 44%	220/500 [01:02<01:05, 4.26it/s]
Power Factorization: 44%	221/500 [01:02<01:13, 3.80it/s]
Power Factorization: 44%	222/500 [01:02<01:10, 3.96it/s]
Power Factorization: 45%	223/500 [01:02<01:09, 3.97it/s]
Power Factorization: 45%	224/500 [01:03<01:11, 3.89it/s]
Power Factorization: 45%	225/500 [01:03<01:08, 4.04it/s]

Power Factorization: 45%	226/500 [01:03<01:03, 4.32it/s]
Power Factorization: 45%	227/500 [01:03<01:10, 3.86it/s]
Power Factorization: 46%	228/500 [01:04<01:09, 3.91it/s]
Power Factorization: 46%	229/500 [01:04<01:07, 4.02it/s]
Power Factorization: 46%	230/500 [01:04<01:05, 4.12it/s]
Power Factorization: 46%	231/500 [01:04<01:07, 3.99it/s]
Power Factorization: 46%	232/500 [01:05<01:06, 4.01it/s]
Power Factorization: 47%	233/500 [01:05<01:04, 4.13it/s]
Power Factorization: 47%	234/500 [01:05<01:04, 4.12it/s]
Power Factorization: 47%	235/500 [01:05<01:05, 4.03it/s]
Power Factorization: 47%	236/500 [01:06<01:09, 3.82it/s]
Power Factorization: 47%	237/500 [01:06<01:07, 3.88it/s]
Power Factorization: 48%	238/500 [01:06<01:08, 3.80it/s]
Power Factorization: 48%	239/500 [01:06<01:09, 3.76it/s]
Power Factorization: 48%	240/500 [01:07<01:09, 3.77it/s]
Power Factorization: 48%	241/500 [01:07<01:10, 3.65it/s]
Power Factorization: 48%	242/500 [01:07<01:08, 3.79it/s]
Power Factorization: 49%	243/500 [01:07<01:03, 4.07it/s]
Power Factorization: 49%	244/500 [01:08<01:01, 4.16it/s]
Power Factorization: 49%	245/500 [01:08<01:09, 3.68it/s]
Power Factorization: 49%	246/500 [01:08<01:07, 3.79it/s]
Power Factorization: 49%	247/500 [01:09<01:33, 2.72it/s]
Power Factorization: 50%	248/500 [01:09<01:24, 2.98it/s]
Power Factorization: 50%	249/500 [01:09<01:15, 3.34it/s]

Power Factorization: 50%	250/500 [01:10<01:12, 3.45it/s]
Power Factorization: 50%	251/500 [01:10<01:07, 3.71it/s]
Power Factorization: 50%	252/500 [01:10<01:03, 3.93it/s]
Power Factorization: 51%	253/500 [01:10<01:02, 3.98it/s]
Power Factorization: 51%	254/500 [01:10<01:00, 4.06it/s]
Power Factorization: 51%	255/500 [01:11<01:00, 4.02it/s]
Power Factorization: 51%	256/500 [01:11<01:02, 3.93it/s]
Power Factorization: 51%	257/500 [01:11<01:00, 4.02it/s]
Power Factorization: 52%	258/500 [01:11<01:00, 3.98it/s]
Power Factorization: 52%	259/500 [01:12<00:58, 4.09it/s]
Power Factorization: 52%	260/500 [01:12<00:59, 4.00it/s]
Power Factorization: 52%	261/500 [01:12<00:59, 4.00it/s]
Power Factorization: 52%	262/500 [01:13<01:02, 3.82it/s]
Power Factorization: 53%	263/500 [01:13<01:02, 3.81it/s]
Power Factorization: 53%	264/500 [01:13<01:05, 3.60it/s]
Power Factorization: 53%	265/500 [01:13<01:03, 3.72it/s]
Power Factorization: 53%	266/500 [01:14<01:03, 3.68it/s]
Power Factorization: 53%	267/500 [01:14<01:01, 3.79it/s]
Power Factorization: 54%	268/500 [01:14<00:58, 3.95it/s]
Power Factorization: 54%	269/500 [01:14<01:00, 3.82it/s]
Power Factorization: 54%	270/500 [01:15<00:58, 3.91it/s]
Power Factorization: 54%	271/500 [01:15<00:59, 3.84it/s]
Power Factorization: 54%	272/500 [01:15<01:04, 3.53it/s]
Power Factorization: 55%	273/500 [01:16<01:08, 3.32it/s]

Power Factorization: 55%	274/500 [01:16<01:02, 3.61it/s]
Power Factorization: 55%	275/500 [01:16<01:02, 3.61it/s]
Power Factorization: 55%	276/500 [01:16<01:00, 3.73it/s]
Power Factorization: 55%	277/500 [01:17<01:00, 3.69it/s]
Power Factorization: 56%	278/500 [01:17<00:59, 3.73it/s]
Power Factorization: 56%	279/500 [01:17<00:58, 3.78it/s]
Power Factorization: 56%	280/500 [01:17<00:57, 3.80it/s]
Power Factorization: 56%	281/500 [01:18<01:00, 3.61it/s]
Power Factorization: 56%	282/500 [01:18<01:03, 3.45it/s]
Power Factorization: 57%	283/500 [01:18<00:58, 3.68it/s]
Power Factorization: 57%	284/500 [01:19<00:58, 3.72it/s]
Power Factorization: 57%	285/500 [01:19<00:55, 3.85it/s]
Power Factorization: 57%	286/500 [01:19<00:54, 3.91it/s]
Power Factorization: 57%	287/500 [01:19<00:52, 4.03it/s]
Power Factorization: 58%	288/500 [01:19<00:53, 3.98it/s]
Power Factorization: 58%	289/500 [01:20<00:53, 3.93it/s]
Power Factorization: 58%	290/500 [01:20<00:53, 3.90it/s]
Power Factorization: 58%	291/500 [01:20<00:52, 4.02it/s]
Power Factorization: 58%	292/500 [01:20<00:50, 4.08it/s]
Power Factorization: 59%	293/500 [01:21<00:51, 4.02it/s]
Power Factorization: 59%	294/500 [01:21<00:50, 4.05it/s]
Power Factorization: 59%	295/500 [01:21<00:52, 3.87it/s]
Power Factorization: 59%	296/500 [01:21<00:51, 3.98it/s]
Power Factorization: 59%	297/500 [01:22<00:50, 4.06it/s]

Power Factorization: 60%	298/500 [01:22<00:55, 3.66it/s]
Power Factorization: 60%	299/500 [01:22<00:56, 3.53it/s]
Power Factorization: 60%	300/500 [01:23<00:54, 3.65it/s]
Power Factorization: 60%	301/500 [01:23<00:53, 3.74it/s]
Power Factorization: 60%	302/500 [01:23<00:53, 3.70it/s]
Power Factorization: 61%	303/500 [01:23<00:51, 3.80it/s]
Power Factorization: 61%	304/500 [01:24<00:51, 3.79it/s]
Power Factorization: 61%	305/500 [01:24<00:52, 3.68it/s]
Power Factorization: 61%	306/500 [01:24<00:51, 3.74it/s]
Power Factorization: 61%	307/500 [01:24<00:49, 3.91it/s]
Power Factorization: 62%	308/500 [01:25<00:46, 4.09it/s]
Power Factorization: 62%	309/500 [01:25<00:46, 4.07it/s]
Power Factorization: 62%	310/500 [01:25<00:46, 4.11it/s]
Power Factorization: 62%	311/500 [01:25<00:47, 3.96it/s]
Power Factorization: 62%	312/500 [01:26<00:52, 3.61it/s]
Power Factorization: 63%	313/500 [01:26<00:53, 3.52it/s]
Power Factorization: 63%	314/500 [01:27<01:09, 2.68it/s]
Power Factorization: 63%	315/500 [01:27<01:03, 2.91it/s]
Power Factorization: 63%	316/500 [01:27<00:57, 3.18it/s]
Power Factorization: 63%	317/500 [01:27<00:54, 3.36it/s]
Power Factorization: 64%	318/500 [01:28<00:48, 3.72it/s]
Power Factorization: 64%	319/500 [01:28<00:49, 3.68it/s]
Power Factorization: 64%	320/500 [01:28<00:47, 3.77it/s]
Power Factorization: 64%	321/500 [01:28<00:45, 3.90it/s]

Power Factorization: 64%	322/500 [01:29<00:44,	4.04it/s]
Power Factorization: 65%	323/500 [01:29<00:44,	3.99it/s]
Power Factorization: 65%	324/500 [01:29<00:45,	3.85it/s]
Power Factorization: 65%	325/500 [01:29<00:44,	3.93it/s]
Power Factorization: 65%	326/500 [01:30<00:45,	3.79it/s]
Power Factorization: 65%	327/500 [01:30<00:52,	3.30it/s]
Power Factorization: 66%	328/500 [01:30<00:55,	3.11it/s]
Power Factorization: 66%	329/500 [01:31<00:55,	3.06it/s]
Power Factorization: 66%	330/500 [01:31<00:53,	3.19it/s]
Power Factorization: 66%	331/500 [01:31<00:53,	3.14it/s]
Power Factorization: 66%	332/500 [01:32<00:51,	3.24it/s]
Power Factorization: 67%	333/500 [01:32<00:49,	3.35it/s]
Power Factorization: 67%	334/500 [01:32<00:49,	3.34it/s]
Power Factorization: 67%	335/500 [01:33<00:48,	3.42it/s]
Power Factorization: 67%	336/500 [01:33<00:56,	2.91it/s]
Power Factorization: 67%	337/500 [01:33<00:53,	3.05it/s]
Power Factorization: 68%	338/500 [01:34<00:51,	3.17it/s]
Power Factorization: 68%	339/500 [01:34<00:48,	3.32it/s]
Power Factorization: 68%	340/500 [01:34<00:47,	3.40it/s]
Power Factorization: 68%	341/500 [01:34<00:48,	3.31it/s]
Power Factorization: 68%	342/500 [01:35<00:47,	3.32it/s]
Power Factorization: 69%	343/500 [01:35<00:46,	3.35it/s]
Power Factorization: 69%	344/500 [01:35<00:45,	3.40it/s]
Power Factorization: 69%	345/500 [01:36<00:48,	3.18it/s]

Power Factorization: 69%	346/500 [01:36<00:50, 3.03it/s]
Power Factorization: 69%	347/500 [01:36<00:49, 3.11it/s]
Power Factorization: 70%	348/500 [01:37<00:46, 3.25it/s]
Power Factorization: 70%	349/500 [01:37<00:45, 3.31it/s]
Power Factorization: 70%	350/500 [01:37<00:45, 3.30it/s]
Power Factorization: 70%	351/500 [01:37<00:43, 3.46it/s]
Power Factorization: 70%	352/500 [01:38<00:42, 3.51it/s]
Power Factorization: 71%	353/500 [01:38<00:39, 3.68it/s]
Power Factorization: 71%	354/500 [01:38<00:41, 3.50it/s]
Power Factorization: 71%	355/500 [01:39<00:41, 3.52it/s]
Power Factorization: 71%	356/500 [01:39<00:53, 2.71it/s]
Power Factorization: 71%	357/500 [01:40<00:54, 2.64it/s]
Power Factorization: 72%	358/500 [01:40<00:52, 2.69it/s]
Power Factorization: 72%	359/500 [01:40<00:49, 2.84it/s]
Power Factorization: 72%	360/500 [01:41<00:48, 2.91it/s]
Power Factorization: 72%	361/500 [01:41<00:44, 3.14it/s]
Power Factorization: 72%	362/500 [01:41<00:52, 2.61it/s]
Power Factorization: 73%	363/500 [01:42<00:48, 2.83it/s]
Power Factorization: 73%	364/500 [01:42<00:48, 2.78it/s]
Power Factorization: 73%	365/500 [01:42<00:47, 2.87it/s]
Power Factorization: 73%	366/500 [01:43<00:53, 2.52it/s]
Power Factorization: 73%	367/500 [01:43<00:47, 2.77it/s]
Power Factorization: 74%	368/500 [01:43<00:43, 3.05it/s]
Power Factorization: 74%	369/500 [01:44<00:41, 3.13it/s]

Power Factorization: 74%	370/500 [01:44<00:40,	3.23it/s]
Power Factorization: 74%	371/500 [01:44<00:39,	3.28it/s]
Power Factorization: 74%	372/500 [01:45<00:48,	2.66it/s]
Power Factorization: 75%	373/500 [01:45<00:46,	2.72it/s]
Power Factorization: 75%	374/500 [01:45<00:42,	2.97it/s]
Power Factorization: 75%	375/500 [01:46<00:38,	3.22it/s]
Power Factorization: 75%	376/500 [01:46<00:36,	3.39it/s]
Power Factorization: 75%	377/500 [01:46<00:44,	2.78it/s]
Power Factorization: 76%	378/500 [01:47<00:39,	3.06it/s]
Power Factorization: 76%	379/500 [01:47<00:37,	3.19it/s]
Power Factorization: 76%	380/500 [01:47<00:36,	3.32it/s]
Power Factorization: 76%	381/500 [01:47<00:33,	3.54it/s]
Power Factorization: 76%	382/500 [01:48<00:33,	3.49it/s]
Power Factorization: 77%	383/500 [01:48<00:36,	3.22it/s]
Power Factorization: 77%	384/500 [01:48<00:34,	3.40it/s]
Power Factorization: 77%	385/500 [01:49<00:32,	3.58it/s]
Power Factorization: 77%	386/500 [01:49<00:35,	3.17it/s]
Power Factorization: 77%	387/500 [01:49<00:36,	3.10it/s]
Power Factorization: 78%	388/500 [01:50<00:36,	3.06it/s]
Power Factorization: 78%	389/500 [01:50<00:32,	3.37it/s]
Power Factorization: 78%	390/500 [01:50<00:31,	3.48it/s]
Power Factorization: 78%	391/500 [01:50<00:30,	3.59it/s]
Power Factorization: 78%	392/500 [01:51<00:29,	3.64it/s]
Power Factorization: 79%	393/500 [01:51<00:29,	3.63it/s]

Power Factorization: 79%	394/500 [01:51<00:27, 3.79it/s]
Power Factorization: 79%	395/500 [01:51<00:27, 3.86it/s]
Power Factorization: 79%	396/500 [01:52<00:25, 4.06it/s]
Power Factorization: 79%	397/500 [01:52<00:25, 4.01it/s]
Power Factorization: 80%	398/500 [01:52<00:25, 3.97it/s]
Power Factorization: 80%	399/500 [01:52<00:24, 4.05it/s]
Power Factorization: 80%	400/500 [01:53<00:24, 4.05it/s]
Power Factorization: 80%	401/500 [01:53<00:24, 3.96it/s]
Power Factorization: 80%	402/500 [01:53<00:25, 3.88it/s]
Power Factorization: 81%	403/500 [01:54<00:28, 3.36it/s]
Power Factorization: 81%	404/500 [01:54<00:29, 3.23it/s]
Power Factorization: 81%	405/500 [01:54<00:27, 3.49it/s]
Power Factorization: 81%	406/500 [01:54<00:28, 3.33it/s]
Power Factorization: 81%	407/500 [01:55<00:28, 3.26it/s]
Power Factorization: 82%	408/500 [01:55<00:27, 3.38it/s]
Power Factorization: 82%	409/500 [02:00<02:32, 1.67s/it]
Power Factorization: 82%	410/500 [02:01<02:01, 1.35s/it]
Power Factorization: 82%	411/500 [02:01<01:41, 1.14s/it]
Power Factorization: 82%	412/500 [02:02<01:31, 1.04s/it]
Power Factorization: 83%	413/500 [02:02<01:12, 1.19it/s]
Power Factorization: 83%	414/500 [02:03<00:58, 1.46it/s]
Power Factorization: 83%	415/500 [02:03<00:47, 1.78it/s]
Power Factorization: 83%	416/500 [02:03<00:39, 2.13it/s]
Power Factorization: 83%	417/500 [02:03<00:33, 2.50it/s]

Power Factorization: 84%	418/500 [02:04<00:30,	2.73it/s]
Power Factorization: 84%	419/500 [02:04<00:27,	2.98it/s]
Power Factorization: 84%	420/500 [02:04<00:25,	3.08it/s]
Power Factorization: 84%	421/500 [02:05<00:24,	3.28it/s]
Power Factorization: 84%	422/500 [02:05<00:23,	3.32it/s]
Power Factorization: 85%	423/500 [02:05<00:22,	3.50it/s]
Power Factorization: 85%	424/500 [02:06<00:25,	2.96it/s]
Power Factorization: 85%	425/500 [02:06<00:31,	2.38it/s]
Power Factorization: 85%	426/500 [02:06<00:27,	2.65it/s]
Power Factorization: 85%	427/500 [02:07<00:25,	2.87it/s]
Power Factorization: 86%	428/500 [02:07<00:25,	2.86it/s]
Power Factorization: 86%	429/500 [02:08<00:25,	2.76it/s]
Power Factorization: 86%	430/500 [02:08<00:26,	2.63it/s]
Power Factorization: 86%	431/500 [02:08<00:25,	2.70it/s]
Power Factorization: 86%	432/500 [02:09<00:26,	2.61it/s]
Power Factorization: 87%	433/500 [02:09<00:24,	2.75it/s]
Power Factorization: 87%	434/500 [02:09<00:22,	2.91it/s]
Power Factorization: 87%	435/500 [02:10<00:20,	3.17it/s]
Power Factorization: 87%	436/500 [02:10<00:19,	3.31it/s]
Power Factorization: 87%	437/500 [02:10<00:18,	3.35it/s]
Power Factorization: 88%	438/500 [02:10<00:19,	3.24it/s]
Power Factorization: 88%	439/500 [02:11<00:18,	3.26it/s]
Power Factorization: 88%	440/500 [02:11<00:17,	3.42it/s]
Power Factorization: 88%	441/500 [02:11<00:17,	3.44it/s]

Power Factorization: 88%	442/500 [02:12<00:16,	3.58it/s]
Power Factorization: 89%	443/500 [02:12<00:16,	3.55it/s]
Power Factorization: 89%	444/500 [02:12<00:15,	3.54it/s]
Power Factorization: 89%	445/500 [02:12<00:16,	3.33it/s]
Power Factorization: 89%	446/500 [02:13<00:15,	3.44it/s]
Power Factorization: 89%	447/500 [02:13<00:15,	3.45it/s]
Power Factorization: 90%	448/500 [02:13<00:15,	3.34it/s]
Power Factorization: 90%	449/500 [02:14<00:14,	3.46it/s]
Power Factorization: 90%	450/500 [02:14<00:14,	3.44it/s]
Power Factorization: 90%	451/500 [02:14<00:15,	3.20it/s]
Power Factorization: 90%	452/500 [02:15<00:15,	3.03it/s]
Power Factorization: 91%	453/500 [02:15<00:15,	3.01it/s]
Power Factorization: 91%	454/500 [02:15<00:14,	3.21it/s]
Power Factorization: 91%	455/500 [02:16<00:14,	3.14it/s]
Power Factorization: 91%	456/500 [02:16<00:14,	3.09it/s]
Power Factorization: 91%	457/500 [02:16<00:13,	3.12it/s]
Power Factorization: 92%	458/500 [02:17<00:13,	3.08it/s]
Power Factorization: 92%	459/500 [02:17<00:13,	3.15it/s]
Power Factorization: 92%	460/500 [02:17<00:12,	3.16it/s]
Power Factorization: 92%	461/500 [02:17<00:12,	3.18it/s]
Power Factorization: 92%	462/500 [02:18<00:11,	3.40it/s]
Power Factorization: 93%	463/500 [02:18<00:10,	3.44it/s]
Power Factorization: 93%	464/500 [02:18<00:10,	3.33it/s]
Power Factorization: 93%	465/500 [02:19<00:09,	3.52it/s]

Power Factorization: 93%	466/500 [02:19<00:09, 3.58it/s]
Power Factorization: 93%	467/500 [02:19<00:09, 3.38it/s]
Power Factorization: 94%	468/500 [02:19<00:09, 3.41it/s]
Power Factorization: 94%	469/500 [02:20<00:09, 3.33it/s]
Power Factorization: 94%	470/500 [02:20<00:08, 3.33it/s]
Power Factorization: 94%	471/500 [02:20<00:08, 3.55it/s]
Power Factorization: 94%	472/500 [02:21<00:08, 3.14it/s]
Power Factorization: 95%	473/500 [02:21<00:08, 3.22it/s]
Power Factorization: 95%	474/500 [02:21<00:07, 3.38it/s]
Power Factorization: 95%	475/500 [02:22<00:07, 3.55it/s]
Power Factorization: 95%	476/500 [02:22<00:07, 3.41it/s]
Power Factorization: 95%	477/500 [02:22<00:06, 3.44it/s]
Power Factorization: 96%	478/500 [02:22<00:06, 3.31it/s]
Power Factorization: 96%	479/500 [02:23<00:06, 3.20it/s]
Power Factorization: 96%	480/500 [02:23<00:06, 3.24it/s]
Power Factorization: 96%	481/500 [02:23<00:06, 3.12it/s]
Power Factorization: 96%	482/500 [02:24<00:05, 3.03it/s]
Power Factorization: 97%	483/500 [02:24<00:05, 3.31it/s]
Power Factorization: 97%	484/500 [02:24<00:05, 3.08it/s]
Power Factorization: 97%	485/500 [02:25<00:04, 3.01it/s]
Power Factorization: 97%	486/500 [02:25<00:04, 3.01it/s]
Power Factorization: 97%	487/500 [02:25<00:04, 3.14it/s]
Power Factorization: 98%	488/500 [02:26<00:03, 3.30it/s]
Power Factorization: 98%	489/500 [02:26<00:03, 3.49it/s]

Power Factorization: 98%| | 490/500 [02:26<00:02, 3.43it/s]

Power Factorization: 98%| | 491/500 [02:26<00:02, 3.47it/s]

Power Factorization: 98%| | 492/500 [02:27<00:02, 2.95it/s]

Power Factorization: 99%| | 493/500 [02:27<00:02, 2.75it/s]

Power Factorization: 99%| | 494/500 [02:28<00:02, 2.93it/s]

Power Factorization: 99%| | 495/500 [02:28<00:01, 2.97it/s]

Power Factorization: 99%| | 496/500 [02:28<00:01, 3.13it/s]

Power Factorization: 99%| | 497/500 [02:29<00:00, 3.23it/s]

Power Factorization: 100%| | 498/500 [02:29<00:00, 3.40it/s]

Power Factorization: 100%| | 499/500 [02:29<00:00, 3.33it/s]

Power Factorization: 100%| | 500/500 [02:29<00:00, 3.34it/s]

Cross Validation: 100%| | 5/5 [11:51<00:00, 142.29s/it]

Grid Search: 31%| | 5/16 [31:50<1:14:21, 405.58s/it]

Average RMS for k=10, lambda=0.1: 4.0368, Execution time: 142.2281s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:35, 3.21it/s]

Power Factorization: 0%| | 2/500 [00:00<02:28, 3.36it/s]

Power Factorization: 1%| | 3/500 [00:00<02:38, 3.13it/s]

Power Factorization: 1%| | 4/500 [00:01<03:01, 2.73it/s]

Power Factorization: 1%| | 5/500 [00:01<03:00, 2.74it/s]

Power Factorization: 1%| | 6/500 [00:02<02:54, 2.84it/s]

Power Factorization: 1%| | 7/500 [00:02<02:48, 2.93it/s]

Power Factorization: 2%| | 8/500 [00:02<02:37, 3.13it/s]

Power Factorization:	2%	9/500 [00:02<02:29, 3.27it/s]
Power Factorization:	2%	10/500 [00:03<02:23, 3.41it/s]
Power Factorization:	2%	11/500 [00:03<02:34, 3.17it/s]
Power Factorization:	2%	12/500 [00:03<02:32, 3.19it/s]
Power Factorization:	3%	13/500 [00:04<02:38, 3.06it/s]
Power Factorization:	3%	14/500 [00:04<02:48, 2.89it/s]
Power Factorization:	3%	15/500 [00:04<02:43, 2.96it/s]
Power Factorization:	3%	16/500 [00:05<02:36, 3.09it/s]
Power Factorization:	3%	17/500 [00:05<02:36, 3.08it/s]
Power Factorization:	4%	18/500 [00:05<02:31, 3.19it/s]
Power Factorization:	4%	19/500 [00:06<02:23, 3.35it/s]
Power Factorization:	4%	20/500 [00:06<02:15, 3.55it/s]
Power Factorization:	4%	21/500 [00:06<02:11, 3.65it/s]
Power Factorization:	4%	22/500 [00:06<02:12, 3.61it/s]
Power Factorization:	5%	23/500 [00:07<02:11, 3.63it/s]
Power Factorization:	5%	24/500 [00:07<02:12, 3.58it/s]
Power Factorization:	5%	25/500 [00:07<02:09, 3.67it/s]
Power Factorization:	5%	26/500 [00:07<02:10, 3.64it/s]
Power Factorization:	5%	27/500 [00:08<02:10, 3.63it/s]
Power Factorization:	6%	28/500 [00:08<02:06, 3.72it/s]
Power Factorization:	6%	29/500 [00:08<02:05, 3.77it/s]
Power Factorization:	6%	30/500 [00:09<02:03, 3.81it/s]
Power Factorization:	6%	31/500 [00:09<01:59, 3.92it/s]
Power Factorization:	6%	32/500 [00:09<01:58, 3.93it/s]

Power Factorization:	7%	33/500	[00:09<02:02,	3.82it/s]
Power Factorization:	7%	34/500	[00:10<01:59,	3.90it/s]
Power Factorization:	7%	35/500	[00:10<02:10,	3.58it/s]
Power Factorization:	7%	36/500	[00:10<02:10,	3.55it/s]
Power Factorization:	7%	37/500	[00:10<02:05,	3.68it/s]
Power Factorization:	8%	38/500	[00:11<02:19,	3.31it/s]
Power Factorization:	8%	39/500	[00:11<02:32,	3.03it/s]
Power Factorization:	8%	40/500	[00:12<02:34,	2.99it/s]
Power Factorization:	8%	41/500	[00:12<02:24,	3.19it/s]
Power Factorization:	8%	42/500	[00:12<02:23,	3.20it/s]
Power Factorization:	9%	43/500	[00:12<02:22,	3.20it/s]
Power Factorization:	9%	44/500	[00:13<02:20,	3.24it/s]
Power Factorization:	9%	45/500	[00:13<02:18,	3.28it/s]
Power Factorization:	9%	46/500	[00:13<02:15,	3.35it/s]
Power Factorization:	9%	47/500	[00:14<03:52,	1.94it/s]
Power Factorization:	10%	48/500	[00:15<04:04,	1.85it/s]
Power Factorization:	10%	49/500	[00:15<03:52,	1.94it/s]
Power Factorization:	10%	50/500	[00:16<03:22,	2.22it/s]
Power Factorization:	10%	51/500	[00:16<02:54,	2.57it/s]
Power Factorization:	10%	52/500	[00:16<02:36,	2.86it/s]
Power Factorization:	11%	53/500	[00:16<02:24,	3.08it/s]
Power Factorization:	11%	54/500	[00:17<02:16,	3.27it/s]
Power Factorization:	11%	55/500	[00:17<02:17,	3.25it/s]
Power Factorization:	11%	56/500	[00:17<02:23,	3.09it/s]

Power Factorization: 11%	57/500 [00:18<02:34,	2.87it/s]
Power Factorization: 12%	58/500 [00:18<02:21,	3.13it/s]
Power Factorization: 12%	59/500 [00:18<02:21,	3.12it/s]
Power Factorization: 12%	60/500 [00:19<02:16,	3.22it/s]
Power Factorization: 12%	61/500 [00:19<02:10,	3.36it/s]
Power Factorization: 12%	62/500 [00:19<02:07,	3.42it/s]
Power Factorization: 13%	63/500 [00:20<03:01,	2.41it/s]
Power Factorization: 13%	64/500 [00:21<03:59,	1.82it/s]
Power Factorization: 13%	65/500 [00:21<03:59,	1.82it/s]
Power Factorization: 13%	66/500 [00:22<03:20,	2.16it/s]
Power Factorization: 13%	67/500 [00:22<03:25,	2.11it/s]
Power Factorization: 14%	68/500 [00:23<04:14,	1.70it/s]
Power Factorization: 14%	69/500 [00:24<04:13,	1.70it/s]
Power Factorization: 14%	70/500 [00:24<03:46,	1.90it/s]
Power Factorization: 14%	71/500 [00:24<03:18,	2.16it/s]
Power Factorization: 14%	72/500 [00:25<03:18,	2.16it/s]
Power Factorization: 15%	73/500 [00:25<02:57,	2.41it/s]
Power Factorization: 15%	74/500 [00:25<03:06,	2.29it/s]
Power Factorization: 15%	75/500 [00:26<02:53,	2.45it/s]
Power Factorization: 15%	76/500 [00:26<03:03,	2.31it/s]
Power Factorization: 15%	77/500 [00:27<02:52,	2.46it/s]
Power Factorization: 16%	78/500 [00:27<02:35,	2.71it/s]
Power Factorization: 16%	79/500 [00:27<02:25,	2.90it/s]
Power Factorization: 16%	80/500 [00:27<02:15,	3.11it/s]

Power Factorization: 16%	81/500 [00:28<03:04,	2.27it/s]
Power Factorization: 16%	82/500 [00:29<02:46,	2.51it/s]
Power Factorization: 17%	83/500 [00:29<02:36,	2.67it/s]
Power Factorization: 17%	84/500 [00:29<02:33,	2.71it/s]
Power Factorization: 17%	85/500 [00:30<04:02,	1.71it/s]
Power Factorization: 17%	86/500 [00:31<03:42,	1.86it/s]
Power Factorization: 17%	87/500 [00:31<03:13,	2.14it/s]
Power Factorization: 18%	88/500 [00:31<02:50,	2.42it/s]
Power Factorization: 18%	89/500 [00:32<02:35,	2.64it/s]
Power Factorization: 18%	90/500 [00:32<02:29,	2.75it/s]
Power Factorization: 18%	91/500 [00:32<02:19,	2.92it/s]
Power Factorization: 18%	92/500 [00:33<02:20,	2.90it/s]
Power Factorization: 19%	93/500 [00:33<02:09,	3.14it/s]
Power Factorization: 19%	94/500 [00:33<02:23,	2.83it/s]
Power Factorization: 19%	95/500 [00:34<02:17,	2.94it/s]
Power Factorization: 19%	96/500 [00:34<02:33,	2.63it/s]
Power Factorization: 19%	97/500 [00:34<02:17,	2.92it/s]
Power Factorization: 20%	98/500 [00:35<02:12,	3.04it/s]
Power Factorization: 20%	99/500 [00:35<02:29,	2.69it/s]
Power Factorization: 20%	100/500 [00:36<02:39,	2.51it/s]
Power Factorization: 20%	101/500 [00:37<05:14,	1.27it/s]
Power Factorization: 20%	102/500 [00:38<04:29,	1.48it/s]
Power Factorization: 21%	103/500 [00:38<03:51,	1.72it/s]
Power Factorization: 21%	104/500 [00:38<03:33,	1.85it/s]

Power Factorization: 21%	105/500 [00:39<04:01, 1.64it/s]
Power Factorization: 21%	106/500 [00:39<03:23, 1.94it/s]
Power Factorization: 21%	107/500 [00:40<03:30, 1.87it/s]
Power Factorization: 22%	108/500 [00:40<03:10, 2.06it/s]
Power Factorization: 22%	109/500 [00:41<03:13, 2.02it/s]
Power Factorization: 22%	110/500 [00:42<03:42, 1.76it/s]
Power Factorization: 22%	111/500 [00:42<03:29, 1.86it/s]
Power Factorization: 22%	112/500 [00:42<03:01, 2.14it/s]
Power Factorization: 23%	113/500 [00:43<02:44, 2.35it/s]
Power Factorization: 23%	114/500 [00:43<02:32, 2.54it/s]
Power Factorization: 23%	115/500 [00:43<02:23, 2.68it/s]
Power Factorization: 23%	116/500 [00:44<02:22, 2.70it/s]
Power Factorization: 23%	117/500 [00:44<02:12, 2.90it/s]
Power Factorization: 24%	118/500 [00:44<02:00, 3.16it/s]
Power Factorization: 24%	119/500 [00:45<01:53, 3.37it/s]
Power Factorization: 24%	120/500 [00:45<02:00, 3.16it/s]
Power Factorization: 24%	121/500 [00:45<01:57, 3.21it/s]
Power Factorization: 24%	122/500 [00:46<01:58, 3.20it/s]
Power Factorization: 25%	123/500 [00:46<01:53, 3.31it/s]
Power Factorization: 25%	124/500 [00:46<01:52, 3.35it/s]
Power Factorization: 25%	125/500 [00:47<02:13, 2.82it/s]
Power Factorization: 25%	126/500 [00:47<02:05, 2.98it/s]
Power Factorization: 25%	127/500 [00:47<02:21, 2.64it/s]
Power Factorization: 26%	128/500 [00:48<02:15, 2.74it/s]

Power Factorization: 26%	129/500 [00:48<02:38, 2.33it/s]
Power Factorization: 26%	130/500 [00:49<02:27, 2.51it/s]
Power Factorization: 26%	131/500 [00:49<02:18, 2.66it/s]
Power Factorization: 26%	132/500 [00:49<02:24, 2.56it/s]
Power Factorization: 27%	133/500 [00:50<02:14, 2.73it/s]
Power Factorization: 27%	134/500 [00:50<02:19, 2.62it/s]
Power Factorization: 27%	135/500 [00:50<02:03, 2.95it/s]
Power Factorization: 27%	136/500 [00:51<01:57, 3.10it/s]
Power Factorization: 27%	137/500 [00:51<02:07, 2.84it/s]
Power Factorization: 28%	138/500 [00:51<02:05, 2.88it/s]
Power Factorization: 28%	139/500 [00:52<02:06, 2.86it/s]
Power Factorization: 28%	140/500 [00:52<01:55, 3.11it/s]
Power Factorization: 28%	141/500 [00:52<01:49, 3.28it/s]
Power Factorization: 28%	142/500 [00:53<01:53, 3.15it/s]
Power Factorization: 29%	143/500 [00:53<01:52, 3.18it/s]
Power Factorization: 29%	144/500 [00:53<01:53, 3.14it/s]
Power Factorization: 29%	145/500 [00:54<01:50, 3.21it/s]
Power Factorization: 29%	146/500 [00:54<01:48, 3.28it/s]
Power Factorization: 29%	147/500 [00:54<01:45, 3.34it/s]
Power Factorization: 30%	148/500 [00:54<01:42, 3.43it/s]
Power Factorization: 30%	149/500 [00:55<01:52, 3.13it/s]
Power Factorization: 30%	150/500 [00:55<01:52, 3.10it/s]
Power Factorization: 30%	151/500 [00:55<01:49, 3.19it/s]
Power Factorization: 30%	152/500 [00:56<01:54, 3.03it/s]

Power Factorization: 31%	153/500 [00:56<01:50, 3.14it/s]
Power Factorization: 31%	154/500 [00:56<02:00, 2.87it/s]
Power Factorization: 31%	155/500 [00:57<01:54, 3.02it/s]
Power Factorization: 31%	156/500 [00:57<01:48, 3.17it/s]
Power Factorization: 31%	157/500 [00:57<01:45, 3.24it/s]
Power Factorization: 32%	158/500 [00:58<01:50, 3.11it/s]
Power Factorization: 32%	159/500 [00:58<01:58, 2.88it/s]
Power Factorization: 32%	160/500 [00:58<02:01, 2.80it/s]
Power Factorization: 32%	161/500 [00:59<02:08, 2.64it/s]
Power Factorization: 32%	162/500 [01:00<02:41, 2.10it/s]
Power Factorization: 33%	163/500 [01:00<02:35, 2.17it/s]
Power Factorization: 33%	164/500 [01:00<02:18, 2.43it/s]
Power Factorization: 33%	165/500 [01:01<02:17, 2.43it/s]
Power Factorization: 33%	166/500 [01:01<02:37, 2.12it/s]
Power Factorization: 33%	167/500 [01:02<02:20, 2.36it/s]
Power Factorization: 34%	168/500 [01:02<02:08, 2.59it/s]
Power Factorization: 34%	169/500 [01:02<01:56, 2.84it/s]
Power Factorization: 34%	170/500 [01:03<01:55, 2.85it/s]
Power Factorization: 34%	171/500 [01:03<01:55, 2.86it/s]
Power Factorization: 34%	172/500 [01:03<01:52, 2.92it/s]
Power Factorization: 35%	173/500 [01:04<01:42, 3.19it/s]
Power Factorization: 35%	174/500 [01:04<01:42, 3.18it/s]
Power Factorization: 35%	175/500 [01:04<01:37, 3.33it/s]
Power Factorization: 35%	176/500 [01:04<01:34, 3.41it/s]

Power Factorization: 35%	177/500 [01:05<01:32, 3.50it/s]
Power Factorization: 36%	178/500 [01:05<01:29, 3.58it/s]
Power Factorization: 36%	179/500 [01:05<01:38, 3.26it/s]
Power Factorization: 36%	180/500 [01:06<01:36, 3.31it/s]
Power Factorization: 36%	181/500 [01:06<01:35, 3.33it/s]
Power Factorization: 36%	182/500 [01:06<01:48, 2.93it/s]
Power Factorization: 37%	183/500 [01:07<01:46, 2.97it/s]
Power Factorization: 37%	184/500 [01:07<01:38, 3.20it/s]
Power Factorization: 37%	185/500 [01:07<01:32, 3.41it/s]
Power Factorization: 37%	186/500 [01:07<01:29, 3.53it/s]
Power Factorization: 37%	187/500 [01:08<01:28, 3.55it/s]
Power Factorization: 38%	188/500 [01:08<01:28, 3.55it/s]
Power Factorization: 38%	189/500 [01:08<01:32, 3.38it/s]
Power Factorization: 38%	190/500 [01:09<01:30, 3.41it/s]
Power Factorization: 38%	191/500 [01:09<01:27, 3.53it/s]
Power Factorization: 38%	192/500 [01:09<01:28, 3.50it/s]
Power Factorization: 39%	193/500 [01:09<01:33, 3.30it/s]
Power Factorization: 39%	194/500 [01:10<01:32, 3.32it/s]
Power Factorization: 39%	195/500 [01:10<01:34, 3.24it/s]
Power Factorization: 39%	196/500 [01:10<01:32, 3.30it/s]
Power Factorization: 39%	197/500 [01:11<01:34, 3.20it/s]
Power Factorization: 40%	198/500 [01:11<01:31, 3.29it/s]
Power Factorization: 40%	199/500 [01:11<01:30, 3.31it/s]
Power Factorization: 40%	200/500 [01:12<01:28, 3.41it/s]

Power Factorization: 40%	201/500 [01:12<01:29, 3.32it/s]
Power Factorization: 40%	202/500 [01:12<01:28, 3.38it/s]
Power Factorization: 41%	203/500 [01:12<01:26, 3.44it/s]
Power Factorization: 41%	204/500 [01:13<01:27, 3.37it/s]
Power Factorization: 41%	205/500 [01:13<01:28, 3.35it/s]
Power Factorization: 41%	206/500 [01:13<01:23, 3.51it/s]
Power Factorization: 41%	207/500 [01:14<01:20, 3.62it/s]
Power Factorization: 42%	208/500 [01:14<01:22, 3.55it/s]
Power Factorization: 42%	209/500 [01:14<01:20, 3.62it/s]
Power Factorization: 42%	210/500 [01:14<01:24, 3.42it/s]
Power Factorization: 42%	211/500 [01:15<01:25, 3.37it/s]
Power Factorization: 42%	212/500 [01:15<01:27, 3.27it/s]
Power Factorization: 43%	213/500 [01:15<01:26, 3.32it/s]
Power Factorization: 43%	214/500 [01:16<01:29, 3.18it/s]
Power Factorization: 43%	215/500 [01:16<01:27, 3.25it/s]
Power Factorization: 43%	216/500 [01:16<01:25, 3.34it/s]
Power Factorization: 43%	217/500 [01:17<01:34, 2.99it/s]
Power Factorization: 44%	218/500 [01:17<01:33, 3.02it/s]
Power Factorization: 44%	219/500 [01:17<01:26, 3.26it/s]
Power Factorization: 44%	220/500 [01:18<01:21, 3.44it/s]
Power Factorization: 44%	221/500 [01:18<01:17, 3.62it/s]
Power Factorization: 44%	222/500 [01:18<01:18, 3.56it/s]
Power Factorization: 45%	223/500 [01:18<01:15, 3.65it/s]
Power Factorization: 45%	224/500 [01:19<01:15, 3.67it/s]

Power Factorization: 45%	225/500 [01:19<01:17, 3.53it/s]
Power Factorization: 45%	226/500 [01:19<01:15, 3.63it/s]
Power Factorization: 45%	227/500 [01:19<01:14, 3.64it/s]
Power Factorization: 46%	228/500 [01:20<01:13, 3.72it/s]
Power Factorization: 46%	229/500 [01:20<01:18, 3.44it/s]
Power Factorization: 46%	230/500 [01:20<01:17, 3.46it/s]
Power Factorization: 46%	231/500 [01:21<01:18, 3.44it/s]
Power Factorization: 46%	232/500 [01:21<01:17, 3.46it/s]
Power Factorization: 47%	233/500 [01:21<01:14, 3.60it/s]
Power Factorization: 47%	234/500 [01:22<01:26, 3.07it/s]
Power Factorization: 47%	235/500 [01:22<01:20, 3.30it/s]
Power Factorization: 47%	236/500 [01:22<01:26, 3.04it/s]
Power Factorization: 47%	237/500 [01:23<01:23, 3.16it/s]
Power Factorization: 48%	238/500 [01:23<01:15, 3.45it/s]
Power Factorization: 48%	239/500 [01:23<01:19, 3.30it/s]
Power Factorization: 48%	240/500 [01:23<01:16, 3.40it/s]
Power Factorization: 48%	241/500 [01:24<01:14, 3.48it/s]
Power Factorization: 48%	242/500 [01:24<01:14, 3.48it/s]
Power Factorization: 49%	243/500 [01:24<01:13, 3.50it/s]
Power Factorization: 49%	244/500 [01:24<01:12, 3.53it/s]
Power Factorization: 49%	245/500 [01:25<01:15, 3.36it/s]
Power Factorization: 49%	246/500 [01:25<01:16, 3.33it/s]
Power Factorization: 49%	247/500 [01:25<01:12, 3.50it/s]
Power Factorization: 50%	248/500 [01:26<01:10, 3.57it/s]

Power Factorization: 50%	249/500 [01:26<01:13, 3.43it/s]
Power Factorization: 50%	250/500 [01:26<01:12, 3.46it/s]
Power Factorization: 50%	251/500 [01:27<01:11, 3.47it/s]
Power Factorization: 50%	252/500 [01:27<01:11, 3.48it/s]
Power Factorization: 51%	253/500 [01:27<01:10, 3.49it/s]
Power Factorization: 51%	254/500 [01:27<01:13, 3.33it/s]
Power Factorization: 51%	255/500 [01:28<01:13, 3.32it/s]
Power Factorization: 51%	256/500 [01:28<01:14, 3.27it/s]
Power Factorization: 51%	257/500 [01:28<01:13, 3.29it/s]
Power Factorization: 52%	258/500 [01:29<01:08, 3.53it/s]
Power Factorization: 52%	259/500 [01:29<01:08, 3.50it/s]
Power Factorization: 52%	260/500 [01:29<01:07, 3.57it/s]
Power Factorization: 52%	261/500 [01:29<01:07, 3.53it/s]
Power Factorization: 52%	262/500 [01:30<01:08, 3.48it/s]
Power Factorization: 53%	263/500 [01:30<01:18, 3.03it/s]
Power Factorization: 53%	264/500 [01:30<01:18, 3.01it/s]
Power Factorization: 53%	265/500 [01:31<01:17, 3.02it/s]
Power Factorization: 53%	266/500 [01:31<01:14, 3.13it/s]
Power Factorization: 53%	267/500 [01:32<01:21, 2.87it/s]
Power Factorization: 54%	268/500 [01:32<01:19, 2.92it/s]
Power Factorization: 54%	269/500 [01:32<01:12, 3.19it/s]
Power Factorization: 54%	270/500 [01:32<01:10, 3.27it/s]
Power Factorization: 54%	271/500 [01:33<01:06, 3.44it/s]
Power Factorization: 54%	272/500 [01:33<01:04, 3.54it/s]

Power Factorization: 55%	273/500 [01:33<01:01, 3.67it/s]
Power Factorization: 55%	274/500 [01:33<01:04, 3.53it/s]
Power Factorization: 55%	275/500 [01:34<01:08, 3.28it/s]
Power Factorization: 55%	276/500 [01:34<01:12, 3.08it/s]
Power Factorization: 55%	277/500 [01:34<01:09, 3.19it/s]
Power Factorization: 56%	278/500 [01:35<01:09, 3.19it/s]
Power Factorization: 56%	279/500 [01:35<01:09, 3.19it/s]
Power Factorization: 56%	280/500 [01:35<01:08, 3.20it/s]
Power Factorization: 56%	281/500 [01:36<01:05, 3.37it/s]
Power Factorization: 56%	282/500 [01:36<01:02, 3.47it/s]
Power Factorization: 57%	283/500 [01:36<01:01, 3.50it/s]
Power Factorization: 57%	284/500 [01:37<01:04, 3.37it/s]
Power Factorization: 57%	285/500 [01:37<01:01, 3.48it/s]
Power Factorization: 57%	286/500 [01:37<01:01, 3.49it/s]
Power Factorization: 57%	287/500 [01:37<01:03, 3.35it/s]
Power Factorization: 58%	288/500 [01:38<01:00, 3.50it/s]
Power Factorization: 58%	289/500 [01:38<00:58, 3.60it/s]
Power Factorization: 58%	290/500 [01:38<01:02, 3.38it/s]
Power Factorization: 58%	291/500 [01:39<01:05, 3.19it/s]
Power Factorization: 58%	292/500 [01:39<01:04, 3.22it/s]
Power Factorization: 59%	293/500 [01:39<01:01, 3.34it/s]
Power Factorization: 59%	294/500 [01:40<01:03, 3.27it/s]
Power Factorization: 59%	295/500 [01:40<01:01, 3.35it/s]
Power Factorization: 59%	296/500 [01:40<00:59, 3.45it/s]

Power Factorization: 59%	297/500 [01:40<01:02, 3.23it/s]
Power Factorization: 60%	298/500 [01:41<01:01, 3.27it/s]
Power Factorization: 60%	299/500 [01:41<00:59, 3.35it/s]
Power Factorization: 60%	300/500 [01:41<00:58, 3.42it/s]
Power Factorization: 60%	301/500 [01:42<00:57, 3.49it/s]
Power Factorization: 60%	302/500 [01:42<00:54, 3.61it/s]
Power Factorization: 61%	303/500 [01:42<00:54, 3.63it/s]
Power Factorization: 61%	304/500 [01:42<00:54, 3.61it/s]
Power Factorization: 61%	305/500 [01:43<00:54, 3.57it/s]
Power Factorization: 61%	306/500 [01:43<00:55, 3.52it/s]
Power Factorization: 61%	307/500 [01:43<00:53, 3.61it/s]
Power Factorization: 62%	308/500 [01:44<00:54, 3.54it/s]
Power Factorization: 62%	309/500 [01:44<00:57, 3.35it/s]
Power Factorization: 62%	310/500 [01:44<00:55, 3.43it/s]
Power Factorization: 62%	311/500 [01:44<00:55, 3.43it/s]
Power Factorization: 62%	312/500 [01:45<00:55, 3.41it/s]
Power Factorization: 63%	313/500 [01:45<00:55, 3.40it/s]
Power Factorization: 63%	314/500 [01:45<00:55, 3.36it/s]
Power Factorization: 63%	315/500 [01:46<00:55, 3.33it/s]
Power Factorization: 63%	316/500 [01:46<00:55, 3.33it/s]
Power Factorization: 63%	317/500 [01:46<00:58, 3.15it/s]
Power Factorization: 64%	318/500 [01:47<01:02, 2.92it/s]
Power Factorization: 64%	319/500 [01:47<00:59, 3.04it/s]
Power Factorization: 64%	320/500 [01:47<00:53, 3.35it/s]

Power Factorization: 64%	321/500 [01:47<00:51, 3.44it/s]
Power Factorization: 64%	322/500 [01:48<00:50, 3.55it/s]
Power Factorization: 65%	323/500 [01:48<00:51, 3.41it/s]
Power Factorization: 65%	324/500 [01:48<00:52, 3.35it/s]
Power Factorization: 65%	325/500 [01:49<00:52, 3.35it/s]
Power Factorization: 65%	326/500 [01:49<00:51, 3.38it/s]
Power Factorization: 65%	327/500 [01:49<00:49, 3.47it/s]
Power Factorization: 66%	328/500 [01:49<00:48, 3.58it/s]
Power Factorization: 66%	329/500 [01:50<00:47, 3.62it/s]
Power Factorization: 66%	330/500 [01:50<00:49, 3.43it/s]
Power Factorization: 66%	331/500 [01:50<00:52, 3.24it/s]
Power Factorization: 66%	332/500 [01:51<00:51, 3.25it/s]
Power Factorization: 67%	333/500 [01:51<00:50, 3.30it/s]
Power Factorization: 67%	334/500 [01:51<00:51, 3.22it/s]
Power Factorization: 67%	335/500 [01:52<00:51, 3.23it/s]
Power Factorization: 67%	336/500 [01:52<00:51, 3.15it/s]
Power Factorization: 67%	337/500 [01:52<00:48, 3.33it/s]
Power Factorization: 68%	338/500 [01:52<00:44, 3.61it/s]
Power Factorization: 68%	339/500 [01:53<00:44, 3.60it/s]
Power Factorization: 68%	340/500 [01:53<00:48, 3.27it/s]
Power Factorization: 68%	341/500 [01:53<00:51, 3.09it/s]
Power Factorization: 68%	342/500 [01:54<00:47, 3.33it/s]
Power Factorization: 69%	343/500 [01:54<00:45, 3.43it/s]
Power Factorization: 69%	344/500 [01:54<00:45, 3.44it/s]

Power Factorization: 69%	345/500 [01:55<00:46, 3.31it/s]
Power Factorization: 69%	346/500 [01:55<00:45, 3.41it/s]
Power Factorization: 69%	347/500 [01:55<00:43, 3.51it/s]
Power Factorization: 70%	348/500 [01:55<00:44, 3.44it/s]
Power Factorization: 70%	349/500 [01:56<00:43, 3.48it/s]
Power Factorization: 70%	350/500 [01:56<00:43, 3.48it/s]
Power Factorization: 70%	351/500 [01:56<00:44, 3.32it/s]
Power Factorization: 70%	352/500 [01:57<00:44, 3.34it/s]
Power Factorization: 71%	353/500 [01:57<00:44, 3.30it/s]
Power Factorization: 71%	354/500 [01:57<00:43, 3.37it/s]
Power Factorization: 71%	355/500 [01:58<00:40, 3.54it/s]
Power Factorization: 71%	356/500 [01:58<00:41, 3.49it/s]
Power Factorization: 71%	357/500 [01:58<00:41, 3.47it/s]
Power Factorization: 72%	358/500 [01:58<00:39, 3.55it/s]
Power Factorization: 72%	359/500 [01:59<00:42, 3.35it/s]
Power Factorization: 72%	360/500 [01:59<00:41, 3.39it/s]
Power Factorization: 72%	361/500 [01:59<00:39, 3.50it/s]
Power Factorization: 72%	362/500 [02:00<00:39, 3.51it/s]
Power Factorization: 73%	363/500 [02:00<00:38, 3.58it/s]
Power Factorization: 73%	364/500 [02:00<00:39, 3.46it/s]
Power Factorization: 73%	365/500 [02:00<00:38, 3.53it/s]
Power Factorization: 73%	366/500 [02:01<00:37, 3.58it/s]
Power Factorization: 73%	367/500 [02:01<00:37, 3.55it/s]
Power Factorization: 74%	368/500 [02:01<00:38, 3.41it/s]

Power Factorization: 74%	369/500 [02:02<00:37, 3.48it/s]
Power Factorization: 74%	370/500 [02:02<00:36, 3.59it/s]
Power Factorization: 74%	371/500 [02:02<00:35, 3.63it/s]
Power Factorization: 74%	372/500 [02:02<00:35, 3.57it/s]
Power Factorization: 75%	373/500 [02:03<00:36, 3.53it/s]
Power Factorization: 75%	374/500 [02:03<00:35, 3.52it/s]
Power Factorization: 75%	375/500 [02:03<00:37, 3.34it/s]
Power Factorization: 75%	376/500 [02:04<00:36, 3.40it/s]
Power Factorization: 75%	377/500 [02:04<00:35, 3.50it/s]
Power Factorization: 76%	378/500 [02:04<00:34, 3.50it/s]
Power Factorization: 76%	379/500 [02:04<00:35, 3.39it/s]
Power Factorization: 76%	380/500 [02:05<00:34, 3.48it/s]
Power Factorization: 76%	381/500 [02:05<00:34, 3.48it/s]
Power Factorization: 76%	382/500 [02:05<00:33, 3.50it/s]
Power Factorization: 77%	383/500 [02:06<00:33, 3.51it/s]
Power Factorization: 77%	384/500 [02:06<00:33, 3.44it/s]
Power Factorization: 77%	385/500 [02:06<00:33, 3.40it/s]
Power Factorization: 77%	386/500 [02:06<00:35, 3.25it/s]
Power Factorization: 77%	387/500 [02:07<00:34, 3.29it/s]
Power Factorization: 78%	388/500 [02:07<00:35, 3.19it/s]
Power Factorization: 78%	389/500 [02:08<00:37, 2.93it/s]
Power Factorization: 78%	390/500 [02:08<00:38, 2.89it/s]
Power Factorization: 78%	391/500 [02:08<00:36, 3.02it/s]
Power Factorization: 78%	392/500 [02:08<00:32, 3.30it/s]

Power Factorization: 79%	393/500 [02:09<00:31, 3.35it/s]
Power Factorization: 79%	394/500 [02:09<00:31, 3.38it/s]
Power Factorization: 79%	395/500 [02:09<00:31, 3.29it/s]
Power Factorization: 79%	396/500 [02:10<00:31, 3.26it/s]
Power Factorization: 79%	397/500 [02:10<00:31, 3.29it/s]
Power Factorization: 80%	398/500 [02:10<00:30, 3.37it/s]
Power Factorization: 80%	399/500 [02:10<00:28, 3.55it/s]
Power Factorization: 80%	400/500 [02:11<00:27, 3.65it/s]
Power Factorization: 80%	401/500 [02:11<00:27, 3.64it/s]
Power Factorization: 80%	402/500 [02:11<00:26, 3.64it/s]
Power Factorization: 81%	403/500 [02:12<00:27, 3.52it/s]
Power Factorization: 81%	404/500 [02:12<00:28, 3.40it/s]
Power Factorization: 81%	405/500 [02:12<00:28, 3.33it/s]
Power Factorization: 81%	406/500 [02:13<00:28, 3.25it/s]
Power Factorization: 81%	407/500 [02:13<00:28, 3.25it/s]
Power Factorization: 82%	408/500 [02:13<00:30, 3.03it/s]
Power Factorization: 82%	409/500 [02:14<00:29, 3.12it/s]
Power Factorization: 82%	410/500 [02:14<00:28, 3.11it/s]
Power Factorization: 82%	411/500 [02:14<00:27, 3.19it/s]
Power Factorization: 82%	412/500 [02:14<00:26, 3.29it/s]
Power Factorization: 83%	413/500 [02:15<00:26, 3.23it/s]
Power Factorization: 83%	414/500 [02:15<00:25, 3.40it/s]
Power Factorization: 83%	415/500 [02:15<00:27, 3.05it/s]
Power Factorization: 83%	416/500 [02:16<00:27, 3.01it/s]

Power Factorization: 83%	417/500 [02:16<00:28,	2.94it/s]
Power Factorization: 84%	418/500 [02:16<00:26,	3.12it/s]
Power Factorization: 84%	419/500 [02:17<00:25,	3.24it/s]
Power Factorization: 84%	420/500 [02:17<00:24,	3.28it/s]
Power Factorization: 84%	421/500 [02:17<00:24,	3.16it/s]
Power Factorization: 84%	422/500 [02:18<00:23,	3.26it/s]
Power Factorization: 85%	423/500 [02:18<00:25,	3.04it/s]
Power Factorization: 85%	424/500 [02:18<00:26,	2.92it/s]
Power Factorization: 85%	425/500 [02:19<00:23,	3.16it/s]
Power Factorization: 85%	426/500 [02:19<00:22,	3.35it/s]
Power Factorization: 85%	427/500 [02:19<00:23,	3.08it/s]
Power Factorization: 86%	428/500 [02:20<00:22,	3.24it/s]
Power Factorization: 86%	429/500 [02:20<00:20,	3.38it/s]
Power Factorization: 86%	430/500 [02:20<00:20,	3.40it/s]
Power Factorization: 86%	431/500 [02:20<00:21,	3.28it/s]
Power Factorization: 86%	432/500 [02:21<00:20,	3.31it/s]
Power Factorization: 87%	433/500 [02:21<00:20,	3.30it/s]
Power Factorization: 87%	434/500 [02:21<00:18,	3.51it/s]
Power Factorization: 87%	435/500 [02:21<00:18,	3.60it/s]
Power Factorization: 87%	436/500 [02:22<00:17,	3.65it/s]
Power Factorization: 87%	437/500 [02:22<00:17,	3.60it/s]
Power Factorization: 88%	438/500 [02:22<00:17,	3.50it/s]
Power Factorization: 88%	439/500 [02:23<00:17,	3.47it/s]
Power Factorization: 88%	440/500 [02:23<00:16,	3.63it/s]

Power Factorization: 88%	441/500 [02:23<00:15,	3.76it/s]
Power Factorization: 88%	442/500 [02:23<00:14,	3.91it/s]
Power Factorization: 89%	443/500 [02:24<00:14,	3.97it/s]
Power Factorization: 89%	444/500 [02:24<00:14,	3.83it/s]
Power Factorization: 89%	445/500 [02:24<00:14,	3.88it/s]
Power Factorization: 89%	446/500 [02:24<00:13,	3.89it/s]
Power Factorization: 89%	447/500 [02:25<00:14,	3.78it/s]
Power Factorization: 90%	448/500 [02:25<00:14,	3.65it/s]
Power Factorization: 90%	449/500 [02:25<00:14,	3.59it/s]
Power Factorization: 90%	450/500 [02:26<00:13,	3.59it/s]
Power Factorization: 90%	451/500 [02:26<00:12,	3.77it/s]
Power Factorization: 90%	452/500 [02:26<00:12,	3.84it/s]
Power Factorization: 91%	453/500 [02:26<00:12,	3.66it/s]
Power Factorization: 91%	454/500 [02:27<00:12,	3.56it/s]
Power Factorization: 91%	455/500 [02:27<00:12,	3.57it/s]
Power Factorization: 91%	456/500 [02:27<00:12,	3.60it/s]
Power Factorization: 91%	457/500 [02:27<00:12,	3.52it/s]
Power Factorization: 92%	458/500 [02:28<00:11,	3.51it/s]
Power Factorization: 92%	459/500 [02:28<00:11,	3.70it/s]
Power Factorization: 92%	460/500 [02:28<00:10,	3.69it/s]
Power Factorization: 92%	461/500 [02:29<00:10,	3.72it/s]
Power Factorization: 92%	462/500 [02:29<00:10,	3.75it/s]
Power Factorization: 93%	463/500 [02:29<00:09,	3.72it/s]
Power Factorization: 93%	464/500 [02:29<00:09,	3.66it/s]

Power Factorization: 93%	465/500 [02:30<00:09, 3.58it/s]
Power Factorization: 93%	466/500 [02:30<00:09, 3.52it/s]
Power Factorization: 93%	467/500 [02:30<00:09, 3.43it/s]
Power Factorization: 94%	468/500 [02:31<00:09, 3.54it/s]
Power Factorization: 94%	469/500 [02:31<00:08, 3.58it/s]
Power Factorization: 94%	470/500 [02:31<00:08, 3.64it/s]
Power Factorization: 94%	471/500 [02:31<00:07, 3.66it/s]
Power Factorization: 94%	472/500 [02:32<00:07, 3.55it/s]
Power Factorization: 95%	473/500 [02:32<00:07, 3.52it/s]
Power Factorization: 95%	474/500 [02:32<00:07, 3.50it/s]
Power Factorization: 95%	475/500 [02:32<00:07, 3.45it/s]
Power Factorization: 95%	476/500 [02:33<00:07, 3.34it/s]
Power Factorization: 95%	477/500 [02:33<00:06, 3.48it/s]
Power Factorization: 96%	478/500 [02:33<00:06, 3.43it/s]
Power Factorization: 96%	479/500 [02:34<00:06, 3.40it/s]
Power Factorization: 96%	480/500 [02:34<00:05, 3.59it/s]
Power Factorization: 96%	481/500 [02:34<00:05, 3.73it/s]
Power Factorization: 96%	482/500 [02:34<00:04, 3.72it/s]
Power Factorization: 97%	483/500 [02:35<00:04, 3.77it/s]
Power Factorization: 97%	484/500 [02:35<00:04, 3.85it/s]
Power Factorization: 97%	485/500 [02:35<00:03, 3.85it/s]
Power Factorization: 97%	486/500 [02:35<00:03, 3.93it/s]
Power Factorization: 97%	487/500 [02:36<00:03, 3.79it/s]
Power Factorization: 98%	488/500 [02:36<00:03, 3.29it/s]

Power Factorization: 98%	489/500 [02:37<00:03, 2.98it/s]
Power Factorization: 98%	490/500 [02:37<00:03, 3.19it/s]
Power Factorization: 98%	491/500 [02:37<00:02, 3.24it/s]
Power Factorization: 98%	492/500 [02:37<00:02, 3.27it/s]
Power Factorization: 99%	493/500 [02:38<00:02, 3.35it/s]
Power Factorization: 99%	494/500 [02:38<00:01, 3.38it/s]
Power Factorization: 99%	495/500 [02:38<00:01, 3.45it/s]
Power Factorization: 99%	496/500 [02:39<00:01, 3.38it/s]
Power Factorization: 99%	497/500 [02:39<00:00, 3.30it/s]
Power Factorization: 100%	498/500 [02:39<00:00, 3.48it/s]
Power Factorization: 100%	499/500 [02:40<00:00, 2.78it/s]
Power Factorization: 100%	500/500 [02:40<00:00, 3.12it/s]
Cross Validation: 20%	1/5 [02:40<10:42, 160.56s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:14, 2.57it/s]
Power Factorization: 0%	2/500 [00:00<02:54, 2.85it/s]
Power Factorization: 1%	3/500 [00:01<02:41, 3.08it/s]
Power Factorization: 1%	4/500 [00:01<02:43, 3.03it/s]
Power Factorization: 1%	5/500 [00:01<02:47, 2.96it/s]
Power Factorization: 1%	6/500 [00:02<02:47, 2.95it/s]
Power Factorization: 1%	7/500 [00:02<02:59, 2.74it/s]
Power Factorization: 2%	8/500 [00:02<02:51, 2.86it/s]
Power Factorization: 2%	9/500 [00:03<02:41, 3.04it/s]
Power Factorization: 2%	10/500 [00:03<02:33, 3.20it/s]

Power Factorization:	2%	11/500	[00:03<02:29,	3.26it/s]
Power Factorization:	2%	12/500	[00:03<02:38,	3.09it/s]
Power Factorization:	3%	13/500	[00:04<02:35,	3.14it/s]
Power Factorization:	3%	14/500	[00:04<02:30,	3.23it/s]
Power Factorization:	3%	15/500	[00:04<02:37,	3.08it/s]
Power Factorization:	3%	16/500	[00:05<02:34,	3.14it/s]
Power Factorization:	3%	17/500	[00:05<02:26,	3.29it/s]
Power Factorization:	4%	18/500	[00:05<02:22,	3.39it/s]
Power Factorization:	4%	19/500	[00:06<02:21,	3.39it/s]
Power Factorization:	4%	20/500	[00:06<02:18,	3.46it/s]
Power Factorization:	4%	21/500	[00:06<02:33,	3.13it/s]
Power Factorization:	4%	22/500	[00:07<02:28,	3.22it/s]
Power Factorization:	5%	23/500	[00:07<02:27,	3.23it/s]
Power Factorization:	5%	24/500	[00:07<02:30,	3.17it/s]
Power Factorization:	5%	25/500	[00:07<02:17,	3.45it/s]
Power Factorization:	5%	26/500	[00:08<02:17,	3.44it/s]
Power Factorization:	5%	27/500	[00:08<02:16,	3.47it/s]
Power Factorization:	6%	28/500	[00:08<02:22,	3.30it/s]
Power Factorization:	6%	29/500	[00:09<02:15,	3.48it/s]
Power Factorization:	6%	30/500	[00:09<02:11,	3.58it/s]
Power Factorization:	6%	31/500	[00:09<02:14,	3.49it/s]
Power Factorization:	6%	32/500	[00:09<02:15,	3.45it/s]
Power Factorization:	7%	33/500	[00:10<02:12,	3.52it/s]
Power Factorization:	7%	34/500	[00:10<02:09,	3.60it/s]

Power Factorization:	7%	35/500 [00:10<02:11,	3.54it/s]
Power Factorization:	7%	36/500 [00:11<02:17,	3.37it/s]
Power Factorization:	7%	37/500 [00:11<02:20,	3.30it/s]
Power Factorization:	8%	38/500 [00:11<02:15,	3.42it/s]
Power Factorization:	8%	39/500 [00:11<02:14,	3.43it/s]
Power Factorization:	8%	40/500 [00:12<02:18,	3.31it/s]
Power Factorization:	8%	41/500 [00:12<02:13,	3.44it/s]
Power Factorization:	8%	42/500 [00:12<02:31,	3.02it/s]
Power Factorization:	9%	43/500 [00:13<02:29,	3.07it/s]
Power Factorization:	9%	44/500 [00:13<02:25,	3.12it/s]
Power Factorization:	9%	45/500 [00:13<02:24,	3.15it/s]
Power Factorization:	9%	46/500 [00:14<02:16,	3.34it/s]
Power Factorization:	9%	47/500 [00:14<02:14,	3.37it/s]
Power Factorization:	10%	48/500 [00:14<02:12,	3.41it/s]
Power Factorization:	10%	49/500 [00:15<02:15,	3.32it/s]
Power Factorization:	10%	50/500 [00:15<02:11,	3.43it/s]
Power Factorization:	10%	51/500 [00:15<02:06,	3.56it/s]
Power Factorization:	10%	52/500 [00:15<02:01,	3.68it/s]
Power Factorization:	11%	53/500 [00:16<02:04,	3.59it/s]
Power Factorization:	11%	54/500 [00:16<02:08,	3.47it/s]
Power Factorization:	11%	55/500 [00:16<02:22,	3.12it/s]
Power Factorization:	11%	56/500 [00:17<02:17,	3.22it/s]
Power Factorization:	11%	57/500 [00:17<02:14,	3.30it/s]
Power Factorization:	12%	58/500 [00:17<02:10,	3.38it/s]

Power Factorization: 12%	59/500 [00:17<02:09, 3.41it/s]
Power Factorization: 12%	60/500 [00:18<02:00, 3.66it/s]
Power Factorization: 12%	61/500 [00:18<01:58, 3.69it/s]
Power Factorization: 12%	62/500 [00:18<01:58, 3.70it/s]
Power Factorization: 13%	63/500 [00:19<02:03, 3.54it/s]
Power Factorization: 13%	64/500 [00:19<02:06, 3.45it/s]
Power Factorization: 13%	65/500 [00:19<02:07, 3.42it/s]
Power Factorization: 13%	66/500 [00:19<02:08, 3.38it/s]
Power Factorization: 13%	67/500 [00:20<02:02, 3.54it/s]
Power Factorization: 14%	68/500 [00:20<01:57, 3.67it/s]
Power Factorization: 14%	69/500 [00:20<01:56, 3.71it/s]
Power Factorization: 14%	70/500 [00:20<01:53, 3.78it/s]
Power Factorization: 14%	71/500 [00:21<01:54, 3.75it/s]
Power Factorization: 14%	72/500 [00:21<01:53, 3.79it/s]
Power Factorization: 15%	73/500 [00:21<01:55, 3.70it/s]
Power Factorization: 15%	74/500 [00:22<02:01, 3.50it/s]
Power Factorization: 15%	75/500 [00:22<02:01, 3.48it/s]
Power Factorization: 15%	76/500 [00:22<02:00, 3.52it/s]
Power Factorization: 15%	77/500 [00:22<01:57, 3.61it/s]
Power Factorization: 16%	78/500 [00:23<01:54, 3.68it/s]
Power Factorization: 16%	79/500 [00:23<01:51, 3.78it/s]
Power Factorization: 16%	80/500 [00:23<01:52, 3.73it/s]
Power Factorization: 16%	81/500 [00:24<01:53, 3.68it/s]
Power Factorization: 16%	82/500 [00:24<02:07, 3.28it/s]

Power Factorization: 17%	83/500 [00:24<02:08, 3.26it/s]
Power Factorization: 17%	84/500 [00:24<02:00, 3.45it/s]
Power Factorization: 17%	85/500 [00:25<02:01, 3.41it/s]
Power Factorization: 17%	86/500 [00:25<01:59, 3.46it/s]
Power Factorization: 17%	87/500 [00:25<02:11, 3.13it/s]
Power Factorization: 18%	88/500 [00:26<02:21, 2.92it/s]
Power Factorization: 18%	89/500 [00:26<02:21, 2.91it/s]
Power Factorization: 18%	90/500 [00:26<02:13, 3.07it/s]
Power Factorization: 18%	91/500 [00:27<02:07, 3.21it/s]
Power Factorization: 18%	92/500 [00:27<02:11, 3.11it/s]
Power Factorization: 19%	93/500 [00:27<02:07, 3.19it/s]
Power Factorization: 19%	94/500 [00:28<01:59, 3.40it/s]
Power Factorization: 19%	95/500 [00:28<01:55, 3.52it/s]
Power Factorization: 19%	96/500 [00:28<01:56, 3.48it/s]
Power Factorization: 19%	97/500 [00:28<01:54, 3.50it/s]
Power Factorization: 20%	98/500 [00:29<01:54, 3.50it/s]
Power Factorization: 20%	99/500 [00:29<01:57, 3.40it/s]
Power Factorization: 20%	100/500 [00:29<01:58, 3.36it/s]
Power Factorization: 20%	101/500 [00:30<01:59, 3.34it/s]
Power Factorization: 20%	102/500 [00:30<01:53, 3.49it/s]
Power Factorization: 21%	103/500 [00:30<01:58, 3.35it/s]
Power Factorization: 21%	104/500 [00:31<01:56, 3.41it/s]
Power Factorization: 21%	105/500 [00:31<01:51, 3.54it/s]
Power Factorization: 21%	106/500 [00:31<01:49, 3.60it/s]

Power Factorization: 21%	107/500 [00:31<01:50, 3.56it/s]
Power Factorization: 22%	108/500 [00:32<01:50, 3.54it/s]
Power Factorization: 22%	109/500 [00:32<01:51, 3.50it/s]
Power Factorization: 22%	110/500 [00:32<01:50, 3.53it/s]
Power Factorization: 22%	111/500 [00:32<01:52, 3.46it/s]
Power Factorization: 22%	112/500 [00:33<01:51, 3.49it/s]
Power Factorization: 23%	113/500 [00:33<01:47, 3.59it/s]
Power Factorization: 23%	114/500 [00:33<01:46, 3.62it/s]
Power Factorization: 23%	115/500 [00:34<01:43, 3.70it/s]
Power Factorization: 23%	116/500 [00:34<01:41, 3.77it/s]
Power Factorization: 23%	117/500 [00:34<01:39, 3.87it/s]
Power Factorization: 24%	118/500 [00:34<01:37, 3.93it/s]
Power Factorization: 24%	119/500 [00:35<01:36, 3.96it/s]
Power Factorization: 24%	120/500 [00:35<01:37, 3.88it/s]
Power Factorization: 24%	121/500 [00:35<01:38, 3.86it/s]
Power Factorization: 24%	122/500 [00:35<01:43, 3.64it/s]
Power Factorization: 25%	123/500 [00:36<01:45, 3.58it/s]
Power Factorization: 25%	124/500 [00:36<01:42, 3.67it/s]
Power Factorization: 25%	125/500 [00:36<01:42, 3.67it/s]
Power Factorization: 25%	126/500 [00:37<01:45, 3.54it/s]
Power Factorization: 25%	127/500 [00:37<01:49, 3.41it/s]
Power Factorization: 26%	128/500 [00:37<01:57, 3.16it/s]
Power Factorization: 26%	129/500 [00:38<02:01, 3.05it/s]
Power Factorization: 26%	130/500 [00:38<01:51, 3.31it/s]

Power Factorization: 26%	131/500 [00:38<01:44, 3.52it/s]
Power Factorization: 26%	132/500 [00:38<01:44, 3.53it/s]
Power Factorization: 27%	133/500 [00:39<01:43, 3.53it/s]
Power Factorization: 27%	134/500 [00:39<01:43, 3.54it/s]
Power Factorization: 27%	135/500 [00:39<01:43, 3.52it/s]
Power Factorization: 27%	136/500 [00:39<01:44, 3.50it/s]
Power Factorization: 27%	137/500 [00:40<01:43, 3.50it/s]
Power Factorization: 28%	138/500 [00:40<01:40, 3.60it/s]
Power Factorization: 28%	139/500 [00:40<01:39, 3.62it/s]
Power Factorization: 28%	140/500 [00:41<01:38, 3.65it/s]
Power Factorization: 28%	141/500 [00:41<01:39, 3.60it/s]
Power Factorization: 28%	142/500 [00:41<01:39, 3.61it/s]
Power Factorization: 29%	143/500 [00:41<01:43, 3.46it/s]
Power Factorization: 29%	144/500 [00:42<01:45, 3.37it/s]
Power Factorization: 29%	145/500 [00:42<01:45, 3.37it/s]
Power Factorization: 29%	146/500 [00:42<01:42, 3.44it/s]
Power Factorization: 29%	147/500 [00:43<01:38, 3.60it/s]
Power Factorization: 30%	148/500 [00:43<01:35, 3.68it/s]
Power Factorization: 30%	149/500 [00:43<01:34, 3.72it/s]
Power Factorization: 30%	150/500 [00:43<01:37, 3.58it/s]
Power Factorization: 30%	151/500 [00:44<01:41, 3.45it/s]
Power Factorization: 30%	152/500 [00:44<01:35, 3.66it/s]
Power Factorization: 31%	153/500 [00:44<01:43, 3.34it/s]
Power Factorization: 31%	154/500 [00:45<01:47, 3.21it/s]

Power Factorization: 31%	155/500 [00:45<01:45, 3.28it/s]
Power Factorization: 31%	156/500 [00:45<01:42, 3.37it/s]
Power Factorization: 31%	157/500 [00:45<01:40, 3.41it/s]
Power Factorization: 32%	158/500 [00:46<01:33, 3.67it/s]
Power Factorization: 32%	159/500 [00:46<01:30, 3.75it/s]
Power Factorization: 32%	160/500 [00:46<01:33, 3.64it/s]
Power Factorization: 32%	161/500 [00:47<01:34, 3.58it/s]
Power Factorization: 32%	162/500 [00:47<01:34, 3.58it/s]
Power Factorization: 33%	163/500 [00:47<01:36, 3.49it/s]
Power Factorization: 33%	164/500 [00:47<01:39, 3.39it/s]
Power Factorization: 33%	165/500 [00:48<01:34, 3.56it/s]
Power Factorization: 33%	166/500 [00:48<01:34, 3.55it/s]
Power Factorization: 33%	167/500 [00:48<01:32, 3.61it/s]
Power Factorization: 34%	168/500 [00:48<01:27, 3.81it/s]
Power Factorization: 34%	169/500 [00:49<01:32, 3.56it/s]
Power Factorization: 34%	170/500 [00:49<01:33, 3.54it/s]
Power Factorization: 34%	171/500 [00:49<01:31, 3.60it/s]
Power Factorization: 34%	172/500 [00:50<01:28, 3.69it/s]
Power Factorization: 35%	173/500 [00:50<01:30, 3.63it/s]
Power Factorization: 35%	174/500 [00:50<01:26, 3.75it/s]
Power Factorization: 35%	175/500 [00:50<01:28, 3.68it/s]
Power Factorization: 35%	176/500 [00:51<01:30, 3.57it/s]
Power Factorization: 35%	177/500 [00:51<01:28, 3.63it/s]
Power Factorization: 36%	178/500 [00:51<01:26, 3.73it/s]

Power Factorization: 36%	179/500 [00:51<01:24, 3.78it/s]
Power Factorization: 36%	180/500 [00:52<01:26, 3.72it/s]
Power Factorization: 36%	181/500 [00:52<01:26, 3.67it/s]
Power Factorization: 36%	182/500 [00:52<01:30, 3.52it/s]
Power Factorization: 37%	183/500 [00:53<01:27, 3.64it/s]
Power Factorization: 37%	184/500 [00:53<01:29, 3.54it/s]
Power Factorization: 37%	185/500 [00:53<01:30, 3.49it/s]
Power Factorization: 37%	186/500 [00:54<01:30, 3.49it/s]
Power Factorization: 37%	187/500 [00:54<01:24, 3.69it/s]
Power Factorization: 38%	188/500 [00:54<01:24, 3.70it/s]
Power Factorization: 38%	189/500 [00:54<01:22, 3.76it/s]
Power Factorization: 38%	190/500 [00:55<01:23, 3.71it/s]
Power Factorization: 38%	191/500 [00:55<01:25, 3.62it/s]
Power Factorization: 38%	192/500 [00:55<01:23, 3.68it/s]
Power Factorization: 39%	193/500 [00:55<01:23, 3.68it/s]
Power Factorization: 39%	194/500 [00:56<01:20, 3.80it/s]
Power Factorization: 39%	195/500 [00:56<01:22, 3.69it/s]
Power Factorization: 39%	196/500 [00:56<01:19, 3.81it/s]
Power Factorization: 39%	197/500 [00:56<01:20, 3.75it/s]
Power Factorization: 40%	198/500 [00:57<01:20, 3.74it/s]
Power Factorization: 40%	199/500 [00:57<01:25, 3.52it/s]
Power Factorization: 40%	200/500 [00:57<01:28, 3.38it/s]
Power Factorization: 40%	201/500 [00:58<01:31, 3.25it/s]
Power Factorization: 40%	202/500 [00:58<01:25, 3.47it/s]

Power Factorization: 41%	203/500 [00:58<01:22, 3.60it/s]
Power Factorization: 41%	204/500 [00:58<01:22, 3.58it/s]
Power Factorization: 41%	205/500 [00:59<01:28, 3.31it/s]
Power Factorization: 41%	206/500 [00:59<01:22, 3.56it/s]
Power Factorization: 41%	207/500 [00:59<01:20, 3.64it/s]
Power Factorization: 42%	208/500 [01:00<01:18, 3.73it/s]
Power Factorization: 42%	209/500 [01:00<01:22, 3.52it/s]
Power Factorization: 42%	210/500 [01:00<01:26, 3.34it/s]
Power Factorization: 42%	211/500 [01:01<01:26, 3.34it/s]
Power Factorization: 42%	212/500 [01:01<01:25, 3.36it/s]
Power Factorization: 43%	213/500 [01:01<01:20, 3.57it/s]
Power Factorization: 43%	214/500 [01:01<01:18, 3.65it/s]
Power Factorization: 43%	215/500 [01:02<01:17, 3.66it/s]
Power Factorization: 43%	216/500 [01:02<01:15, 3.76it/s]
Power Factorization: 43%	217/500 [01:02<01:12, 3.88it/s]
Power Factorization: 44%	218/500 [01:02<01:12, 3.91it/s]
Power Factorization: 44%	219/500 [01:03<01:11, 3.92it/s]
Power Factorization: 44%	220/500 [01:03<01:14, 3.76it/s]
Power Factorization: 44%	221/500 [01:03<01:17, 3.60it/s]
Power Factorization: 44%	222/500 [01:03<01:18, 3.54it/s]
Power Factorization: 45%	223/500 [01:04<01:19, 3.49it/s]
Power Factorization: 45%	224/500 [01:04<01:20, 3.42it/s]
Power Factorization: 45%	225/500 [01:04<01:18, 3.51it/s]
Power Factorization: 45%	226/500 [01:05<01:19, 3.47it/s]

Power Factorization: 45%	227/500 [01:05<01:18, 3.49it/s]
Power Factorization: 46%	228/500 [01:05<01:16, 3.54it/s]
Power Factorization: 46%	229/500 [01:05<01:17, 3.48it/s]
Power Factorization: 46%	230/500 [01:06<01:17, 3.47it/s]
Power Factorization: 46%	231/500 [01:06<01:16, 3.50it/s]
Power Factorization: 46%	232/500 [01:06<01:12, 3.71it/s]
Power Factorization: 47%	233/500 [01:07<01:12, 3.67it/s]
Power Factorization: 47%	234/500 [01:07<01:10, 3.75it/s]
Power Factorization: 47%	235/500 [01:07<01:10, 3.77it/s]
Power Factorization: 47%	236/500 [01:07<01:10, 3.73it/s]
Power Factorization: 47%	237/500 [01:08<01:12, 3.62it/s]
Power Factorization: 48%	238/500 [01:08<01:12, 3.59it/s]
Power Factorization: 48%	239/500 [01:08<01:10, 3.73it/s]
Power Factorization: 48%	240/500 [01:09<01:18, 3.32it/s]
Power Factorization: 48%	241/500 [01:09<01:22, 3.13it/s]
Power Factorization: 48%	242/500 [01:09<01:17, 3.34it/s]
Power Factorization: 49%	243/500 [01:09<01:15, 3.40it/s]
Power Factorization: 49%	244/500 [01:10<01:14, 3.42it/s]
Power Factorization: 49%	245/500 [01:10<01:10, 3.60it/s]
Power Factorization: 49%	246/500 [01:10<01:11, 3.53it/s]
Power Factorization: 49%	247/500 [01:11<01:12, 3.50it/s]
Power Factorization: 50%	248/500 [01:11<01:11, 3.52it/s]
Power Factorization: 50%	249/500 [01:11<01:10, 3.58it/s]
Power Factorization: 50%	250/500 [01:11<01:07, 3.70it/s]

Power Factorization: 50%	251/500 [01:12<01:07, 3.67it/s]
Power Factorization: 50%	252/500 [01:12<01:07, 3.66it/s]
Power Factorization: 51%	253/500 [01:12<01:07, 3.64it/s]
Power Factorization: 51%	254/500 [01:12<01:09, 3.54it/s]
Power Factorization: 51%	255/500 [01:13<01:07, 3.62it/s]
Power Factorization: 51%	256/500 [01:13<01:09, 3.52it/s]
Power Factorization: 51%	257/500 [01:13<01:09, 3.50it/s]
Power Factorization: 52%	258/500 [01:14<01:08, 3.53it/s]
Power Factorization: 52%	259/500 [01:14<01:10, 3.43it/s]
Power Factorization: 52%	260/500 [01:14<01:14, 3.24it/s]
Power Factorization: 52%	261/500 [01:15<01:18, 3.03it/s]
Power Factorization: 52%	262/500 [01:15<01:17, 3.07it/s]
Power Factorization: 53%	263/500 [01:15<01:10, 3.37it/s]
Power Factorization: 53%	264/500 [01:15<01:08, 3.43it/s]
Power Factorization: 53%	265/500 [01:16<01:21, 2.89it/s]
Power Factorization: 53%	266/500 [01:16<01:21, 2.87it/s]
Power Factorization: 53%	267/500 [01:17<01:20, 2.90it/s]
Power Factorization: 54%	268/500 [01:17<01:12, 3.20it/s]
Power Factorization: 54%	269/500 [01:17<01:10, 3.29it/s]
Power Factorization: 54%	270/500 [01:17<01:04, 3.54it/s]
Power Factorization: 54%	271/500 [01:18<01:05, 3.49it/s]
Power Factorization: 54%	272/500 [01:18<01:03, 3.58it/s]
Power Factorization: 55%	273/500 [01:18<01:02, 3.64it/s]
Power Factorization: 55%	274/500 [01:19<01:02, 3.60it/s]

Power Factorization: 55%	275/500 [01:19<00:59, 3.76it/s]
Power Factorization: 55%	276/500 [01:19<00:58, 3.84it/s]
Power Factorization: 55%	277/500 [01:19<00:58, 3.84it/s]
Power Factorization: 56%	278/500 [01:20<00:58, 3.81it/s]
Power Factorization: 56%	279/500 [01:20<01:01, 3.60it/s]
Power Factorization: 56%	280/500 [01:20<01:00, 3.64it/s]
Power Factorization: 56%	281/500 [01:20<00:58, 3.73it/s]
Power Factorization: 56%	282/500 [01:21<01:04, 3.37it/s]
Power Factorization: 57%	283/500 [01:21<01:01, 3.55it/s]
Power Factorization: 57%	284/500 [01:21<01:00, 3.56it/s]
Power Factorization: 57%	285/500 [01:22<01:03, 3.36it/s]
Power Factorization: 57%	286/500 [01:22<01:01, 3.50it/s]
Power Factorization: 57%	287/500 [01:22<01:01, 3.49it/s]
Power Factorization: 58%	288/500 [01:22<01:06, 3.21it/s]
Power Factorization: 58%	289/500 [01:23<01:24, 2.51it/s]
Power Factorization: 58%	290/500 [01:23<01:18, 2.66it/s]
Power Factorization: 58%	291/500 [01:24<01:14, 2.80it/s]
Power Factorization: 58%	292/500 [01:24<01:10, 2.95it/s]
Power Factorization: 59%	293/500 [01:24<01:11, 2.90it/s]
Power Factorization: 59%	294/500 [01:25<01:05, 3.14it/s]
Power Factorization: 59%	295/500 [01:25<01:07, 3.03it/s]
Power Factorization: 59%	296/500 [01:25<01:11, 2.84it/s]
Power Factorization: 59%	297/500 [01:26<01:07, 3.02it/s]
Power Factorization: 60%	298/500 [01:26<01:04, 3.14it/s]

Power Factorization: 60%	299/500 [01:26<01:04, 3.10it/s]
Power Factorization: 60%	300/500 [01:27<01:02, 3.22it/s]
Power Factorization: 60%	301/500 [01:27<01:00, 3.30it/s]
Power Factorization: 60%	302/500 [01:27<01:03, 3.12it/s]
Power Factorization: 61%	303/500 [01:28<00:59, 3.30it/s]
Power Factorization: 61%	304/500 [01:28<00:56, 3.46it/s]
Power Factorization: 61%	305/500 [01:28<00:54, 3.59it/s]
Power Factorization: 61%	306/500 [01:28<00:54, 3.53it/s]
Power Factorization: 61%	307/500 [01:29<00:55, 3.50it/s]
Power Factorization: 62%	308/500 [01:29<00:55, 3.44it/s]
Power Factorization: 62%	309/500 [01:29<00:54, 3.50it/s]
Power Factorization: 62%	310/500 [01:29<00:55, 3.40it/s]
Power Factorization: 62%	311/500 [01:30<00:53, 3.53it/s]
Power Factorization: 62%	312/500 [01:30<00:56, 3.31it/s]
Power Factorization: 63%	313/500 [01:30<00:57, 3.27it/s]
Power Factorization: 63%	314/500 [01:31<01:09, 2.66it/s]
Power Factorization: 63%	315/500 [01:31<01:09, 2.67it/s]
Power Factorization: 63%	316/500 [01:32<01:11, 2.56it/s]
Power Factorization: 63%	317/500 [01:32<01:07, 2.70it/s]
Power Factorization: 64%	318/500 [01:32<01:02, 2.90it/s]
Power Factorization: 64%	319/500 [01:33<00:59, 3.05it/s]
Power Factorization: 64%	320/500 [01:33<00:58, 3.07it/s]
Power Factorization: 64%	321/500 [01:33<00:56, 3.15it/s]
Power Factorization: 64%	322/500 [01:34<00:57, 3.08it/s]

Power Factorization: 65%	323/500 [01:34<00:56, 3.14it/s]
Power Factorization: 65%	324/500 [01:34<00:59, 2.94it/s]
Power Factorization: 65%	325/500 [01:35<00:57, 3.07it/s]
Power Factorization: 65%	326/500 [01:35<00:58, 2.96it/s]
Power Factorization: 65%	327/500 [01:35<00:53, 3.21it/s]
Power Factorization: 66%	328/500 [01:36<00:54, 3.17it/s]
Power Factorization: 66%	329/500 [01:36<00:50, 3.40it/s]
Power Factorization: 66%	330/500 [01:36<00:58, 2.92it/s]
Power Factorization: 66%	331/500 [01:37<00:57, 2.92it/s]
Power Factorization: 66%	332/500 [01:37<00:52, 3.18it/s]
Power Factorization: 67%	333/500 [01:37<00:52, 3.20it/s]
Power Factorization: 67%	334/500 [01:38<00:59, 2.81it/s]
Power Factorization: 67%	335/500 [01:38<01:03, 2.60it/s]
Power Factorization: 67%	336/500 [01:38<01:00, 2.73it/s]
Power Factorization: 67%	337/500 [01:39<00:54, 2.99it/s]
Power Factorization: 68%	338/500 [01:39<00:51, 3.15it/s]
Power Factorization: 68%	339/500 [01:40<01:04, 2.49it/s]
Power Factorization: 68%	340/500 [01:40<01:09, 2.31it/s]
Power Factorization: 68%	341/500 [01:40<01:02, 2.54it/s]
Power Factorization: 68%	342/500 [01:41<00:56, 2.78it/s]
Power Factorization: 69%	343/500 [01:41<01:03, 2.46it/s]
Power Factorization: 69%	344/500 [01:41<00:56, 2.77it/s]
Power Factorization: 69%	345/500 [01:42<00:53, 2.88it/s]
Power Factorization: 69%	346/500 [01:42<00:53, 2.90it/s]

Power Factorization: 69%	347/500 [01:42<00:49, 3.08it/s]
Power Factorization: 70%	348/500 [01:43<00:48, 3.13it/s]
Power Factorization: 70%	349/500 [01:43<00:46, 3.25it/s]
Power Factorization: 70%	350/500 [01:43<00:45, 3.27it/s]
Power Factorization: 70%	351/500 [01:43<00:42, 3.51it/s]
Power Factorization: 70%	352/500 [01:44<00:41, 3.54it/s]
Power Factorization: 71%	353/500 [01:44<00:41, 3.51it/s]
Power Factorization: 71%	354/500 [01:44<00:46, 3.11it/s]
Power Factorization: 71%	355/500 [01:45<00:47, 3.02it/s]
Power Factorization: 71%	356/500 [01:45<00:43, 3.33it/s]
Power Factorization: 71%	357/500 [01:45<00:41, 3.41it/s]
Power Factorization: 72%	358/500 [01:46<00:40, 3.47it/s]
Power Factorization: 72%	359/500 [01:46<00:42, 3.30it/s]
Power Factorization: 72%	360/500 [01:46<00:43, 3.22it/s]
Power Factorization: 72%	361/500 [01:47<00:44, 3.10it/s]
Power Factorization: 72%	362/500 [01:47<00:41, 3.36it/s]
Power Factorization: 73%	363/500 [01:47<00:45, 3.04it/s]
Power Factorization: 73%	364/500 [01:48<00:51, 2.65it/s]
Power Factorization: 73%	365/500 [01:48<00:46, 2.89it/s]
Power Factorization: 73%	366/500 [01:48<00:44, 3.00it/s]
Power Factorization: 73%	367/500 [01:49<00:50, 2.65it/s]
Power Factorization: 74%	368/500 [01:49<00:46, 2.86it/s]
Power Factorization: 74%	369/500 [01:50<00:58, 2.25it/s]
Power Factorization: 74%	370/500 [01:50<00:55, 2.35it/s]

Power Factorization: 74%	371/500 [01:50<00:48,	2.64it/s]
Power Factorization: 74%	372/500 [01:51<00:43,	2.92it/s]
Power Factorization: 75%	373/500 [01:51<00:42,	2.98it/s]
Power Factorization: 75%	374/500 [01:51<00:40,	3.14it/s]
Power Factorization: 75%	375/500 [01:51<00:37,	3.31it/s]
Power Factorization: 75%	376/500 [01:52<00:37,	3.32it/s]
Power Factorization: 75%	377/500 [01:52<00:35,	3.46it/s]
Power Factorization: 76%	378/500 [01:52<00:36,	3.31it/s]
Power Factorization: 76%	379/500 [01:53<00:36,	3.32it/s]
Power Factorization: 76%	380/500 [01:53<00:34,	3.50it/s]
Power Factorization: 76%	381/500 [01:53<00:33,	3.51it/s]
Power Factorization: 76%	382/500 [01:53<00:31,	3.75it/s]
Power Factorization: 77%	383/500 [01:54<00:31,	3.71it/s]
Power Factorization: 77%	384/500 [01:54<00:30,	3.75it/s]
Power Factorization: 77%	385/500 [01:54<00:32,	3.54it/s]
Power Factorization: 77%	386/500 [01:55<00:33,	3.45it/s]
Power Factorization: 77%	387/500 [01:55<00:34,	3.29it/s]
Power Factorization: 78%	388/500 [01:55<00:33,	3.37it/s]
Power Factorization: 78%	389/500 [01:55<00:31,	3.49it/s]
Power Factorization: 78%	390/500 [01:56<00:32,	3.36it/s]
Power Factorization: 78%	391/500 [01:56<00:35,	3.10it/s]
Power Factorization: 78%	392/500 [01:57<00:38,	2.84it/s]
Power Factorization: 79%	393/500 [01:57<00:37,	2.83it/s]
Power Factorization: 79%	394/500 [01:57<00:35,	3.00it/s]

Power Factorization: 79%	395/500 [01:57<00:33,	3.15it/s]
Power Factorization: 79%	396/500 [01:58<00:31,	3.26it/s]
Power Factorization: 79%	397/500 [01:58<00:35,	2.91it/s]
Power Factorization: 80%	398/500 [01:59<00:34,	2.92it/s]
Power Factorization: 80%	399/500 [01:59<00:33,	3.01it/s]
Power Factorization: 80%	400/500 [01:59<00:32,	3.10it/s]
Power Factorization: 80%	401/500 [01:59<00:30,	3.23it/s]
Power Factorization: 80%	402/500 [02:00<00:31,	3.14it/s]
Power Factorization: 81%	403/500 [02:00<00:30,	3.21it/s]
Power Factorization: 81%	404/500 [02:00<00:28,	3.41it/s]
Power Factorization: 81%	405/500 [02:01<00:26,	3.57it/s]
Power Factorization: 81%	406/500 [02:01<00:24,	3.87it/s]
Power Factorization: 81%	407/500 [02:01<00:29,	3.15it/s]
Power Factorization: 82%	408/500 [02:02<00:28,	3.19it/s]
Power Factorization: 82%	409/500 [02:02<00:28,	3.14it/s]
Power Factorization: 82%	410/500 [02:02<00:29,	3.05it/s]
Power Factorization: 82%	411/500 [02:03<00:30,	2.88it/s]
Power Factorization: 82%	412/500 [02:03<00:36,	2.42it/s]
Power Factorization: 83%	413/500 [02:04<00:58,	1.48it/s]
Power Factorization: 83%	414/500 [02:05<00:54,	1.58it/s]
Power Factorization: 83%	415/500 [02:05<00:47,	1.77it/s]
Power Factorization: 83%	416/500 [02:06<00:41,	2.01it/s]
Power Factorization: 83%	417/500 [02:06<00:35,	2.37it/s]
Power Factorization: 84%	418/500 [02:06<00:31,	2.57it/s]

Power Factorization: 84%	419/500 [02:07<00:28,	2.82it/s]
Power Factorization: 84%	420/500 [02:07<00:25,	3.13it/s]
Power Factorization: 84%	421/500 [02:07<00:25,	3.13it/s]
Power Factorization: 84%	422/500 [02:07<00:26,	2.98it/s]
Power Factorization: 85%	423/500 [02:08<00:32,	2.39it/s]
Power Factorization: 85%	424/500 [02:09<00:44,	1.71it/s]
Power Factorization: 85%	425/500 [02:10<00:49,	1.51it/s]
Power Factorization: 85%	426/500 [02:10<00:47,	1.57it/s]
Power Factorization: 85%	427/500 [02:11<00:39,	1.83it/s]
Power Factorization: 86%	428/500 [02:11<00:35,	2.00it/s]
Power Factorization: 86%	429/500 [02:12<00:31,	2.25it/s]
Power Factorization: 86%	430/500 [02:12<00:27,	2.51it/s]
Power Factorization: 86%	431/500 [02:12<00:24,	2.87it/s]
Power Factorization: 86%	432/500 [02:13<00:25,	2.65it/s]
Power Factorization: 87%	433/500 [02:13<00:22,	2.98it/s]
Power Factorization: 87%	434/500 [02:13<00:21,	3.05it/s]
Power Factorization: 87%	435/500 [02:13<00:20,	3.21it/s]
Power Factorization: 87%	436/500 [02:14<00:18,	3.54it/s]
Power Factorization: 87%	437/500 [02:14<00:16,	3.77it/s]
Power Factorization: 88%	438/500 [02:14<00:16,	3.85it/s]
Power Factorization: 88%	439/500 [02:14<00:16,	3.60it/s]
Power Factorization: 88%	440/500 [02:15<00:16,	3.58it/s]
Power Factorization: 88%	441/500 [02:15<00:16,	3.48it/s]
Power Factorization: 88%	442/500 [02:15<00:17,	3.23it/s]

Power Factorization: 89%	443/500 [02:16<00:17,	3.34it/s]
Power Factorization: 89%	444/500 [02:16<00:15,	3.55it/s]
Power Factorization: 89%	445/500 [02:16<00:16,	3.43it/s]
Power Factorization: 89%	446/500 [02:16<00:15,	3.53it/s]
Power Factorization: 89%	447/500 [02:17<00:14,	3.67it/s]
Power Factorization: 90%	448/500 [02:17<00:13,	3.92it/s]
Power Factorization: 90%	449/500 [02:19<00:36,	1.41it/s]
Power Factorization: 90%	450/500 [02:21<01:07,	1.35s/it]
Power Factorization: 90%	451/500 [02:23<01:05,	1.33s/it]
Power Factorization: 90%	452/500 [02:23<00:49,	1.03s/it]
Power Factorization: 91%	453/500 [02:23<00:37,	1.25it/s]
Power Factorization: 91%	454/500 [02:24<00:32,	1.42it/s]
Power Factorization: 91%	455/500 [02:24<00:26,	1.70it/s]
Power Factorization: 91%	456/500 [02:24<00:21,	2.01it/s]
Power Factorization: 91%	457/500 [02:25<00:17,	2.44it/s]
Power Factorization: 92%	458/500 [02:25<00:15,	2.68it/s]
Power Factorization: 92%	459/500 [02:25<00:13,	2.94it/s]
Power Factorization: 92%	460/500 [02:26<00:15,	2.60it/s]
Power Factorization: 92%	461/500 [02:26<00:13,	2.95it/s]
Power Factorization: 92%	462/500 [02:26<00:12,	3.04it/s]
Power Factorization: 93%	463/500 [02:27<00:11,	3.10it/s]
Power Factorization: 93%	464/500 [02:27<00:11,	3.09it/s]
Power Factorization: 93%	465/500 [02:27<00:11,	3.15it/s]
Power Factorization: 93%	466/500 [02:27<00:10,	3.23it/s]

Power Factorization: 93%	467/500 [02:28<00:09, 3.37it/s]
Power Factorization: 94%	468/500 [02:28<00:11, 2.88it/s]
Power Factorization: 94%	469/500 [02:29<00:11, 2.74it/s]
Power Factorization: 94%	470/500 [02:33<00:43, 1.45s/it]
Power Factorization: 94%	471/500 [02:34<00:38, 1.32s/it]
Power Factorization: 94%	472/500 [02:35<00:38, 1.36s/it]
Power Factorization: 95%	473/500 [02:35<00:28, 1.07s/it]
Power Factorization: 95%	474/500 [02:37<00:32, 1.23s/it]
Power Factorization: 95%	475/500 [02:40<00:45, 1.82s/it]
Power Factorization: 95%	476/500 [02:41<00:34, 1.43s/it]
Power Factorization: 95%	477/500 [02:41<00:26, 1.17s/it]
Power Factorization: 96%	478/500 [02:42<00:21, 1.05it/s]
Power Factorization: 96%	479/500 [02:42<00:16, 1.26it/s]
Power Factorization: 96%	480/500 [02:43<00:14, 1.41it/s]
Power Factorization: 96%	481/500 [02:43<00:12, 1.52it/s]
Power Factorization: 96%	482/500 [02:45<00:18, 1.00s/it]
Power Factorization: 97%	483/500 [02:46<00:17, 1.00s/it]
Power Factorization: 97%	484/500 [02:47<00:13, 1.18it/s]
Power Factorization: 97%	485/500 [02:47<00:11, 1.29it/s]
Power Factorization: 97%	486/500 [02:48<00:11, 1.22it/s]
Power Factorization: 97%	487/500 [02:48<00:08, 1.50it/s]
Power Factorization: 98%	488/500 [02:49<00:06, 1.76it/s]
Power Factorization: 98%	489/500 [02:49<00:05, 2.07it/s]
Power Factorization: 98%	490/500 [02:49<00:04, 2.29it/s]

Power Factorization: 98%	491/500 [02:51<00:05, 1.51it/s]
Power Factorization: 98%	492/500 [02:51<00:04, 1.74it/s]
Power Factorization: 99%	493/500 [02:51<00:03, 2.06it/s]
Power Factorization: 99%	494/500 [02:51<00:02, 2.40it/s]
Power Factorization: 99%	495/500 [02:52<00:01, 2.76it/s]
Power Factorization: 99%	496/500 [02:52<00:01, 2.98it/s]
Power Factorization: 99%	497/500 [02:52<00:00, 3.25it/s]
Power Factorization: 100%	498/500 [02:52<00:00, 3.46it/s]
Power Factorization: 100%	499/500 [02:53<00:00, 3.41it/s]
Power Factorization: 100%	500/500 [02:53<00:00, 2.88it/s]
Cross Validation: 40%	2/5 [05:34<08:24, 168.18s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:33, 3.26it/s]
Power Factorization: 0%	2/500 [00:00<02:21, 3.51it/s]
Power Factorization: 1%	3/500 [00:00<02:23, 3.47it/s]
Power Factorization: 1%	4/500 [00:01<02:18, 3.58it/s]
Power Factorization: 1%	5/500 [00:01<02:20, 3.51it/s]
Power Factorization: 1%	6/500 [00:01<02:14, 3.67it/s]
Power Factorization: 1%	7/500 [00:01<02:20, 3.50it/s]
Power Factorization: 2%	8/500 [00:02<02:17, 3.57it/s]
Power Factorization: 2%	9/500 [00:02<02:17, 3.58it/s]
Power Factorization: 2%	10/500 [00:02<02:16, 3.58it/s]
Power Factorization: 2%	11/500 [00:03<02:23, 3.41it/s]
Power Factorization: 2%	12/500 [00:03<02:19, 3.51it/s]

Power Factorization:	3%	13/500	[00:03<02:11,	3.69it/s]
Power Factorization:	3%	14/500	[00:03<02:06,	3.84it/s]
Power Factorization:	3%	15/500	[00:04<02:04,	3.90it/s]
Power Factorization:	3%	16/500	[00:04<02:00,	4.00it/s]
Power Factorization:	3%	17/500	[00:04<02:00,	4.02it/s]
Power Factorization:	4%	18/500	[00:04<01:59,	4.05it/s]
Power Factorization:	4%	19/500	[00:05<01:58,	4.06it/s]
Power Factorization:	4%	20/500	[00:05<02:04,	3.86it/s]
Power Factorization:	4%	21/500	[00:05<02:05,	3.82it/s]
Power Factorization:	4%	22/500	[00:05<02:14,	3.55it/s]
Power Factorization:	5%	23/500	[00:06<02:11,	3.64it/s]
Power Factorization:	5%	24/500	[00:06<02:22,	3.34it/s]
Power Factorization:	5%	25/500	[00:06<02:19,	3.39it/s]
Power Factorization:	5%	26/500	[00:07<02:25,	3.25it/s]
Power Factorization:	5%	27/500	[00:07<02:24,	3.28it/s]
Power Factorization:	6%	28/500	[00:07<02:14,	3.51it/s]
Power Factorization:	6%	29/500	[00:08<02:13,	3.53it/s]
Power Factorization:	6%	30/500	[00:08<02:10,	3.60it/s]
Power Factorization:	6%	31/500	[00:08<02:16,	3.43it/s]
Power Factorization:	6%	32/500	[00:08<02:25,	3.23it/s]
Power Factorization:	7%	33/500	[00:09<02:19,	3.35it/s]
Power Factorization:	7%	34/500	[00:09<02:15,	3.45it/s]
Power Factorization:	7%	35/500	[00:09<02:13,	3.48it/s]
Power Factorization:	7%	36/500	[00:10<02:14,	3.44it/s]

Power Factorization:	7%	37/500 [00:10<02:16,	3.40it/s]
Power Factorization:	8%	38/500 [00:10<02:17,	3.37it/s]
Power Factorization:	8%	39/500 [00:10<02:14,	3.42it/s]
Power Factorization:	8%	40/500 [00:11<02:18,	3.31it/s]
Power Factorization:	8%	41/500 [00:11<02:29,	3.07it/s]
Power Factorization:	8%	42/500 [00:11<02:20,	3.25it/s]
Power Factorization:	9%	43/500 [00:12<02:33,	2.97it/s]
Power Factorization:	9%	44/500 [00:12<02:37,	2.90it/s]
Power Factorization:	9%	45/500 [00:13<02:30,	3.02it/s]
Power Factorization:	9%	46/500 [00:13<02:25,	3.12it/s]
Power Factorization:	9%	47/500 [00:13<02:20,	3.23it/s]
Power Factorization:	10%	48/500 [00:13<02:29,	3.03it/s]
Power Factorization:	10%	49/500 [00:14<02:30,	3.01it/s]
Power Factorization:	10%	50/500 [00:14<02:23,	3.14it/s]
Power Factorization:	10%	51/500 [00:14<02:21,	3.18it/s]
Power Factorization:	10%	52/500 [00:15<02:18,	3.23it/s]
Power Factorization:	11%	53/500 [00:15<02:11,	3.40it/s]
Power Factorization:	11%	54/500 [00:15<02:16,	3.26it/s]
Power Factorization:	11%	55/500 [00:16<02:12,	3.36it/s]
Power Factorization:	11%	56/500 [00:16<02:10,	3.40it/s]
Power Factorization:	11%	57/500 [00:16<02:13,	3.31it/s]
Power Factorization:	12%	58/500 [00:16<02:08,	3.43it/s]
Power Factorization:	12%	59/500 [00:17<02:08,	3.44it/s]
Power Factorization:	12%	60/500 [00:17<03:05,	2.37it/s]

Power Factorization: 12%	61/500 [00:18<02:57, 2.47it/s]
Power Factorization: 12%	62/500 [00:18<02:37, 2.78it/s]
Power Factorization: 13%	63/500 [00:18<02:25, 3.01it/s]
Power Factorization: 13%	64/500 [00:19<02:24, 3.01it/s]
Power Factorization: 13%	65/500 [00:19<02:18, 3.13it/s]
Power Factorization: 13%	66/500 [00:19<02:15, 3.20it/s]
Power Factorization: 13%	67/500 [00:20<02:14, 3.23it/s]
Power Factorization: 14%	68/500 [00:20<02:04, 3.47it/s]
Power Factorization: 14%	69/500 [00:20<02:02, 3.52it/s]
Power Factorization: 14%	70/500 [00:20<01:58, 3.63it/s]
Power Factorization: 14%	71/500 [00:21<01:54, 3.75it/s]
Power Factorization: 14%	72/500 [00:21<01:53, 3.78it/s]
Power Factorization: 15%	73/500 [00:21<01:50, 3.87it/s]
Power Factorization: 15%	74/500 [00:21<01:51, 3.83it/s]
Power Factorization: 15%	75/500 [00:22<02:03, 3.45it/s]
Power Factorization: 15%	76/500 [00:22<02:02, 3.45it/s]
Power Factorization: 15%	77/500 [00:22<02:12, 3.20it/s]
Power Factorization: 16%	78/500 [00:23<02:21, 2.99it/s]
Power Factorization: 16%	79/500 [00:23<02:40, 2.62it/s]
Power Factorization: 16%	80/500 [00:23<02:22, 2.95it/s]
Power Factorization: 16%	81/500 [00:24<02:20, 2.98it/s]
Power Factorization: 16%	82/500 [00:24<02:28, 2.82it/s]
Power Factorization: 17%	83/500 [00:25<02:36, 2.66it/s]
Power Factorization: 17%	84/500 [00:25<02:31, 2.75it/s]

Power Factorization: 17%	85/500 [00:25<02:17, 3.02it/s]
Power Factorization: 17%	86/500 [00:25<02:05, 3.29it/s]
Power Factorization: 17%	87/500 [00:26<02:03, 3.35it/s]
Power Factorization: 18%	88/500 [00:26<02:07, 3.24it/s]
Power Factorization: 18%	89/500 [00:26<02:01, 3.39it/s]
Power Factorization: 18%	90/500 [00:27<02:08, 3.19it/s]
Power Factorization: 18%	91/500 [00:27<02:04, 3.28it/s]
Power Factorization: 18%	92/500 [00:27<02:10, 3.13it/s]
Power Factorization: 19%	93/500 [00:28<02:01, 3.36it/s]
Power Factorization: 19%	94/500 [00:28<02:06, 3.20it/s]
Power Factorization: 19%	95/500 [00:28<02:01, 3.32it/s]
Power Factorization: 19%	96/500 [00:28<01:55, 3.49it/s]
Power Factorization: 19%	97/500 [00:29<01:57, 3.44it/s]
Power Factorization: 20%	98/500 [00:29<01:55, 3.47it/s]
Power Factorization: 20%	99/500 [00:29<01:53, 3.55it/s]
Power Factorization: 20%	100/500 [00:30<01:55, 3.46it/s]
Power Factorization: 20%	101/500 [00:30<01:55, 3.44it/s]
Power Factorization: 20%	102/500 [00:30<01:59, 3.32it/s]
Power Factorization: 21%	103/500 [00:31<02:08, 3.09it/s]
Power Factorization: 21%	104/500 [00:31<02:12, 2.98it/s]
Power Factorization: 21%	105/500 [00:31<02:05, 3.14it/s]
Power Factorization: 21%	106/500 [00:32<02:04, 3.16it/s]
Power Factorization: 21%	107/500 [00:32<02:01, 3.25it/s]
Power Factorization: 22%	108/500 [00:32<01:55, 3.39it/s]

Power Factorization: 22%	109/500 [00:32<01:52, 3.48it/s]
Power Factorization: 22%	110/500 [00:33<01:57, 3.32it/s]
Power Factorization: 22%	111/500 [00:33<01:50, 3.52it/s]
Power Factorization: 22%	112/500 [00:33<01:51, 3.48it/s]
Power Factorization: 23%	113/500 [00:34<01:51, 3.46it/s]
Power Factorization: 23%	114/500 [00:34<02:15, 2.86it/s]
Power Factorization: 23%	115/500 [00:34<02:11, 2.92it/s]
Power Factorization: 23%	116/500 [00:35<02:00, 3.19it/s]
Power Factorization: 23%	117/500 [00:35<01:54, 3.33it/s]
Power Factorization: 24%	118/500 [00:35<02:02, 3.11it/s]
Power Factorization: 24%	119/500 [00:36<02:04, 3.05it/s]
Power Factorization: 24%	120/500 [00:36<02:04, 3.05it/s]
Power Factorization: 24%	121/500 [00:36<01:58, 3.20it/s]
Power Factorization: 24%	122/500 [00:36<01:52, 3.35it/s]
Power Factorization: 25%	123/500 [00:37<01:47, 3.51it/s]
Power Factorization: 25%	124/500 [00:37<01:49, 3.45it/s]
Power Factorization: 25%	125/500 [00:37<01:52, 3.34it/s]
Power Factorization: 25%	126/500 [00:38<01:55, 3.23it/s]
Power Factorization: 25%	127/500 [00:38<01:49, 3.40it/s]
Power Factorization: 26%	128/500 [00:38<01:47, 3.47it/s]
Power Factorization: 26%	129/500 [00:39<01:48, 3.41it/s]
Power Factorization: 26%	130/500 [00:39<01:50, 3.34it/s]
Power Factorization: 26%	131/500 [00:39<01:42, 3.59it/s]
Power Factorization: 26%	132/500 [00:39<01:51, 3.31it/s]

Power Factorization: 27%	133/500 [00:40<01:49, 3.36it/s]
Power Factorization: 27%	134/500 [00:40<01:48, 3.37it/s]
Power Factorization: 27%	135/500 [00:40<01:45, 3.47it/s]
Power Factorization: 27%	136/500 [00:41<01:43, 3.51it/s]
Power Factorization: 27%	137/500 [00:41<01:45, 3.45it/s]
Power Factorization: 28%	138/500 [00:41<01:43, 3.48it/s]
Power Factorization: 28%	139/500 [00:41<01:47, 3.35it/s]
Power Factorization: 28%	140/500 [00:42<01:56, 3.09it/s]
Power Factorization: 28%	141/500 [00:42<02:01, 2.94it/s]
Power Factorization: 28%	142/500 [00:43<01:59, 3.00it/s]
Power Factorization: 29%	143/500 [00:43<01:49, 3.27it/s]
Power Factorization: 29%	144/500 [00:43<01:42, 3.47it/s]
Power Factorization: 29%	145/500 [00:43<01:44, 3.41it/s]
Power Factorization: 29%	146/500 [00:44<01:43, 3.41it/s]
Power Factorization: 29%	147/500 [00:44<01:42, 3.43it/s]
Power Factorization: 30%	148/500 [00:44<01:48, 3.24it/s]
Power Factorization: 30%	149/500 [00:45<01:44, 3.35it/s]
Power Factorization: 30%	150/500 [00:45<01:41, 3.43it/s]
Power Factorization: 30%	151/500 [00:45<01:43, 3.39it/s]
Power Factorization: 30%	152/500 [00:45<01:45, 3.29it/s]
Power Factorization: 31%	153/500 [00:46<01:38, 3.51it/s]
Power Factorization: 31%	154/500 [00:46<01:50, 3.13it/s]
Power Factorization: 31%	155/500 [00:46<01:49, 3.14it/s]
Power Factorization: 31%	156/500 [00:47<02:52, 1.99it/s]

Power Factorization: 31%	157/500 [00:48<02:32, 2.25it/s]
Power Factorization: 32%	158/500 [00:48<02:16, 2.50it/s]
Power Factorization: 32%	159/500 [00:48<02:01, 2.80it/s]
Power Factorization: 32%	160/500 [00:49<02:06, 2.69it/s]
Power Factorization: 32%	161/500 [00:49<01:55, 2.93it/s]
Power Factorization: 32%	162/500 [00:49<01:53, 2.97it/s]
Power Factorization: 33%	163/500 [00:50<01:51, 3.03it/s]
Power Factorization: 33%	164/500 [00:50<01:45, 3.18it/s]
Power Factorization: 33%	165/500 [00:50<01:42, 3.26it/s]
Power Factorization: 33%	166/500 [00:50<01:38, 3.38it/s]
Power Factorization: 33%	167/500 [00:51<01:39, 3.33it/s]
Power Factorization: 34%	168/500 [00:51<01:51, 2.97it/s]
Power Factorization: 34%	169/500 [00:51<01:48, 3.06it/s]
Power Factorization: 34%	170/500 [00:52<01:42, 3.21it/s]
Power Factorization: 34%	171/500 [00:52<01:39, 3.31it/s]
Power Factorization: 34%	172/500 [00:52<01:34, 3.47it/s]
Power Factorization: 35%	173/500 [00:52<01:31, 3.56it/s]
Power Factorization: 35%	174/500 [00:53<01:41, 3.21it/s]
Power Factorization: 35%	175/500 [00:53<01:45, 3.08it/s]
Power Factorization: 35%	176/500 [00:53<01:39, 3.26it/s]
Power Factorization: 35%	177/500 [00:54<01:40, 3.22it/s]
Power Factorization: 36%	178/500 [00:54<01:39, 3.24it/s]
Power Factorization: 36%	179/500 [00:54<01:41, 3.16it/s]
Power Factorization: 36%	180/500 [00:55<01:45, 3.03it/s]

Power Factorization: 36%	181/500 [00:55<01:40, 3.16it/s]
Power Factorization: 36%	182/500 [00:55<01:39, 3.19it/s]
Power Factorization: 37%	183/500 [00:56<01:39, 3.18it/s]
Power Factorization: 37%	184/500 [00:56<01:39, 3.17it/s]
Power Factorization: 37%	185/500 [00:56<01:35, 3.28it/s]
Power Factorization: 37%	186/500 [00:57<01:34, 3.33it/s]
Power Factorization: 37%	187/500 [00:57<01:32, 3.40it/s]
Power Factorization: 38%	188/500 [00:57<01:31, 3.40it/s]
Power Factorization: 38%	189/500 [00:58<01:37, 3.18it/s]
Power Factorization: 38%	190/500 [00:58<01:38, 3.15it/s]
Power Factorization: 38%	191/500 [00:58<01:33, 3.31it/s]
Power Factorization: 38%	192/500 [00:58<01:37, 3.15it/s]
Power Factorization: 39%	193/500 [00:59<01:32, 3.32it/s]
Power Factorization: 39%	194/500 [00:59<01:28, 3.46it/s]
Power Factorization: 39%	195/500 [00:59<01:29, 3.41it/s]
Power Factorization: 39%	196/500 [01:00<01:24, 3.58it/s]
Power Factorization: 39%	197/500 [01:00<01:24, 3.60it/s]
Power Factorization: 40%	198/500 [01:00<01:29, 3.39it/s]
Power Factorization: 40%	199/500 [01:01<01:39, 3.04it/s]
Power Factorization: 40%	200/500 [01:01<01:37, 3.09it/s]
Power Factorization: 40%	201/500 [01:01<01:39, 3.02it/s]
Power Factorization: 40%	202/500 [01:01<01:32, 3.21it/s]
Power Factorization: 41%	203/500 [01:02<01:26, 3.42it/s]
Power Factorization: 41%	204/500 [01:02<01:25, 3.48it/s]

Power Factorization: 41%	205/500 [01:02<01:22, 3.57it/s]
Power Factorization: 41%	206/500 [01:03<01:24, 3.46it/s]
Power Factorization: 41%	207/500 [01:03<01:25, 3.43it/s]
Power Factorization: 42%	208/500 [01:03<01:28, 3.31it/s]
Power Factorization: 42%	209/500 [01:04<01:32, 3.16it/s]
Power Factorization: 42%	210/500 [01:04<01:30, 3.21it/s]
Power Factorization: 42%	211/500 [01:04<01:26, 3.36it/s]
Power Factorization: 42%	212/500 [01:04<01:23, 3.45it/s]
Power Factorization: 43%	213/500 [01:05<01:30, 3.17it/s]
Power Factorization: 43%	214/500 [01:05<01:29, 3.20it/s]
Power Factorization: 43%	215/500 [01:05<01:25, 3.32it/s]
Power Factorization: 43%	216/500 [01:06<01:26, 3.30it/s]
Power Factorization: 43%	217/500 [01:06<01:25, 3.30it/s]
Power Factorization: 44%	218/500 [01:06<01:24, 3.34it/s]
Power Factorization: 44%	219/500 [01:06<01:20, 3.51it/s]
Power Factorization: 44%	220/500 [01:07<01:18, 3.57it/s]
Power Factorization: 44%	221/500 [01:07<01:23, 3.33it/s]
Power Factorization: 44%	222/500 [01:07<01:27, 3.17it/s]
Power Factorization: 45%	223/500 [01:08<01:23, 3.31it/s]
Power Factorization: 45%	224/500 [01:08<01:26, 3.20it/s]
Power Factorization: 45%	225/500 [01:08<01:24, 3.27it/s]
Power Factorization: 45%	226/500 [01:09<01:19, 3.44it/s]
Power Factorization: 45%	227/500 [01:09<01:19, 3.43it/s]
Power Factorization: 46%	228/500 [01:09<01:26, 3.16it/s]

Power Factorization: 46%	229/500 [01:10<01:32, 2.92it/s]
Power Factorization: 46%	230/500 [01:10<01:36, 2.81it/s]
Power Factorization: 46%	231/500 [01:10<01:32, 2.91it/s]
Power Factorization: 46%	232/500 [01:11<01:36, 2.78it/s]
Power Factorization: 47%	233/500 [01:11<01:41, 2.62it/s]
Power Factorization: 47%	234/500 [01:12<01:40, 2.66it/s]
Power Factorization: 47%	235/500 [01:12<01:30, 2.93it/s]
Power Factorization: 47%	236/500 [01:12<01:25, 3.10it/s]
Power Factorization: 47%	237/500 [01:12<01:21, 3.22it/s]
Power Factorization: 48%	238/500 [01:13<01:21, 3.21it/s]
Power Factorization: 48%	239/500 [01:13<01:17, 3.38it/s]
Power Factorization: 48%	240/500 [01:13<01:15, 3.43it/s]
Power Factorization: 48%	241/500 [01:14<01:18, 3.28it/s]
Power Factorization: 48%	242/500 [01:14<01:22, 3.12it/s]
Power Factorization: 49%	243/500 [01:14<01:20, 3.18it/s]
Power Factorization: 49%	244/500 [01:15<01:21, 3.15it/s]
Power Factorization: 49%	245/500 [01:15<01:19, 3.22it/s]
Power Factorization: 49%	246/500 [01:15<01:13, 3.47it/s]
Power Factorization: 49%	247/500 [01:15<01:12, 3.48it/s]
Power Factorization: 50%	248/500 [01:16<01:09, 3.60it/s]
Power Factorization: 50%	249/500 [01:16<01:12, 3.48it/s]
Power Factorization: 50%	250/500 [01:16<01:12, 3.47it/s]
Power Factorization: 50%	251/500 [01:17<01:10, 3.53it/s]
Power Factorization: 50%	252/500 [01:17<01:10, 3.52it/s]

Power Factorization: 51%	253/500 [01:17<01:11, 3.45it/s]
Power Factorization: 51%	254/500 [01:17<01:11, 3.43it/s]
Power Factorization: 51%	255/500 [01:18<01:10, 3.48it/s]
Power Factorization: 51%	256/500 [01:18<01:10, 3.44it/s]
Power Factorization: 51%	257/500 [01:18<01:10, 3.44it/s]
Power Factorization: 52%	258/500 [01:20<02:26, 1.65it/s]
Power Factorization: 52%	259/500 [01:20<02:03, 1.95it/s]
Power Factorization: 52%	260/500 [01:20<01:50, 2.16it/s]
Power Factorization: 52%	261/500 [01:21<01:37, 2.45it/s]
Power Factorization: 52%	262/500 [01:21<01:28, 2.68it/s]
Power Factorization: 53%	263/500 [01:21<01:23, 2.84it/s]
Power Factorization: 53%	264/500 [01:21<01:19, 2.98it/s]
Power Factorization: 53%	265/500 [01:22<01:16, 3.08it/s]
Power Factorization: 53%	266/500 [01:22<01:13, 3.19it/s]
Power Factorization: 53%	267/500 [01:22<01:10, 3.28it/s]
Power Factorization: 54%	268/500 [01:23<01:06, 3.51it/s]
Power Factorization: 54%	269/500 [01:23<01:07, 3.44it/s]
Power Factorization: 54%	270/500 [01:23<01:10, 3.25it/s]
Power Factorization: 54%	271/500 [01:23<01:11, 3.22it/s]
Power Factorization: 54%	272/500 [01:24<01:08, 3.33it/s]
Power Factorization: 55%	273/500 [01:24<01:06, 3.42it/s]
Power Factorization: 55%	274/500 [01:24<01:03, 3.53it/s]
Power Factorization: 55%	275/500 [01:25<01:02, 3.60it/s]
Power Factorization: 55%	276/500 [01:25<01:04, 3.46it/s]

Power Factorization: 55%	277/500 [01:25<01:03, 3.48it/s]
Power Factorization: 56%	278/500 [01:25<01:02, 3.53it/s]
Power Factorization: 56%	279/500 [01:26<01:01, 3.62it/s]
Power Factorization: 56%	280/500 [01:26<01:00, 3.65it/s]
Power Factorization: 56%	281/500 [01:26<01:02, 3.52it/s]
Power Factorization: 56%	282/500 [01:27<01:04, 3.39it/s]
Power Factorization: 57%	283/500 [01:27<01:06, 3.28it/s]
Power Factorization: 57%	284/500 [01:27<01:04, 3.37it/s]
Power Factorization: 57%	285/500 [01:28<01:07, 3.18it/s]
Power Factorization: 57%	286/500 [01:28<01:08, 3.11it/s]
Power Factorization: 57%	287/500 [01:28<01:16, 2.80it/s]
Power Factorization: 58%	288/500 [01:29<01:31, 2.31it/s]
Power Factorization: 58%	289/500 [01:29<01:24, 2.48it/s]
Power Factorization: 58%	290/500 [01:30<01:16, 2.73it/s]
Power Factorization: 58%	291/500 [01:30<01:11, 2.93it/s]
Power Factorization: 58%	292/500 [01:30<01:10, 2.97it/s]
Power Factorization: 59%	293/500 [01:30<01:03, 3.25it/s]
Power Factorization: 59%	294/500 [01:31<01:02, 3.30it/s]
Power Factorization: 59%	295/500 [01:31<01:01, 3.34it/s]
Power Factorization: 59%	296/500 [01:31<01:00, 3.38it/s]
Power Factorization: 59%	297/500 [01:32<01:01, 3.28it/s]
Power Factorization: 60%	298/500 [01:32<01:05, 3.11it/s]
Power Factorization: 60%	299/500 [01:32<01:02, 3.22it/s]
Power Factorization: 60%	300/500 [01:33<01:01, 3.26it/s]

Power Factorization: 60%	301/500 [01:33<00:58, 3.40it/s]
Power Factorization: 60%	302/500 [01:33<00:59, 3.32it/s]
Power Factorization: 61%	303/500 [01:33<00:58, 3.37it/s]
Power Factorization: 61%	304/500 [01:34<00:57, 3.39it/s]
Power Factorization: 61%	305/500 [01:34<01:02, 3.14it/s]
Power Factorization: 61%	306/500 [01:34<01:01, 3.18it/s]
Power Factorization: 61%	307/500 [01:35<00:58, 3.28it/s]
Power Factorization: 62%	308/500 [01:35<00:58, 3.30it/s]
Power Factorization: 62%	309/500 [01:35<01:02, 3.04it/s]
Power Factorization: 62%	310/500 [01:36<01:01, 3.07it/s]
Power Factorization: 62%	311/500 [01:36<01:02, 3.04it/s]
Power Factorization: 62%	312/500 [01:36<00:59, 3.17it/s]
Power Factorization: 63%	313/500 [01:37<00:57, 3.25it/s]
Power Factorization: 63%	314/500 [01:37<00:56, 3.27it/s]
Power Factorization: 63%	315/500 [01:37<00:56, 3.29it/s]
Power Factorization: 63%	316/500 [01:37<00:54, 3.36it/s]
Power Factorization: 63%	317/500 [01:38<00:56, 3.24it/s]
Power Factorization: 64%	318/500 [01:38<00:55, 3.27it/s]
Power Factorization: 64%	319/500 [01:38<00:55, 3.27it/s]
Power Factorization: 64%	320/500 [01:39<00:54, 3.31it/s]
Power Factorization: 64%	321/500 [01:39<00:54, 3.28it/s]
Power Factorization: 64%	322/500 [01:39<00:55, 3.20it/s]
Power Factorization: 65%	323/500 [01:40<00:56, 3.12it/s]
Power Factorization: 65%	324/500 [01:40<01:00, 2.89it/s]

Power Factorization: 65%	325/500 [01:40<00:59, 2.95it/s]
Power Factorization: 65%	326/500 [01:41<00:55, 3.14it/s]
Power Factorization: 65%	327/500 [01:41<00:53, 3.21it/s]
Power Factorization: 66%	328/500 [01:41<00:53, 3.22it/s]
Power Factorization: 66%	329/500 [01:42<00:51, 3.32it/s]
Power Factorization: 66%	330/500 [01:42<00:50, 3.39it/s]
Power Factorization: 66%	331/500 [01:42<00:51, 3.31it/s]
Power Factorization: 66%	332/500 [01:42<00:48, 3.43it/s]
Power Factorization: 67%	333/500 [01:43<00:50, 3.28it/s]
Power Factorization: 67%	334/500 [01:43<00:54, 3.02it/s]
Power Factorization: 67%	335/500 [01:45<02:03, 1.34it/s]
Power Factorization: 67%	336/500 [01:45<01:41, 1.62it/s]
Power Factorization: 67%	337/500 [01:45<01:24, 1.92it/s]
Power Factorization: 68%	338/500 [01:46<01:16, 2.12it/s]
Power Factorization: 68%	339/500 [01:46<01:07, 2.38it/s]
Power Factorization: 68%	340/500 [01:46<01:00, 2.66it/s]
Power Factorization: 68%	341/500 [01:47<00:57, 2.76it/s]
Power Factorization: 68%	342/500 [01:47<00:52, 2.99it/s]
Power Factorization: 69%	343/500 [01:47<00:51, 3.03it/s]
Power Factorization: 69%	344/500 [01:48<00:49, 3.16it/s]
Power Factorization: 69%	345/500 [01:48<00:48, 3.21it/s]
Power Factorization: 69%	346/500 [01:48<00:46, 3.31it/s]
Power Factorization: 69%	347/500 [01:49<00:46, 3.31it/s]
Power Factorization: 70%	348/500 [01:49<00:45, 3.38it/s]

Power Factorization: 70%	349/500 [01:49<00:53, 2.80it/s]
Power Factorization: 70%	350/500 [01:50<00:50, 2.98it/s]
Power Factorization: 70%	351/500 [01:50<00:49, 3.02it/s]
Power Factorization: 70%	352/500 [01:50<00:46, 3.18it/s]
Power Factorization: 71%	353/500 [01:50<00:44, 3.27it/s]
Power Factorization: 71%	354/500 [01:51<00:45, 3.24it/s]
Power Factorization: 71%	355/500 [01:51<00:50, 2.90it/s]
Power Factorization: 71%	356/500 [01:51<00:46, 3.13it/s]
Power Factorization: 71%	357/500 [01:52<00:45, 3.17it/s]
Power Factorization: 72%	358/500 [01:52<00:47, 2.98it/s]
Power Factorization: 72%	359/500 [01:52<00:47, 2.97it/s]
Power Factorization: 72%	360/500 [01:53<00:45, 3.08it/s]
Power Factorization: 72%	361/500 [01:53<00:44, 3.11it/s]
Power Factorization: 72%	362/500 [01:53<00:43, 3.17it/s]
Power Factorization: 73%	363/500 [01:54<00:41, 3.32it/s]
Power Factorization: 73%	364/500 [01:54<00:51, 2.62it/s]
Power Factorization: 73%	365/500 [01:55<00:50, 2.69it/s]
Power Factorization: 73%	366/500 [01:55<00:47, 2.83it/s]
Power Factorization: 73%	367/500 [01:55<00:44, 2.99it/s]
Power Factorization: 74%	368/500 [01:55<00:43, 3.05it/s]
Power Factorization: 74%	369/500 [01:56<00:41, 3.19it/s]
Power Factorization: 74%	370/500 [01:56<00:46, 2.78it/s]
Power Factorization: 74%	371/500 [01:57<00:44, 2.88it/s]
Power Factorization: 74%	372/500 [01:57<00:42, 3.04it/s]

Power Factorization: 75%	373/500 [01:57<00:43,	2.91it/s]
Power Factorization: 75%	374/500 [01:58<00:41,	3.01it/s]
Power Factorization: 75%	375/500 [01:58<00:40,	3.12it/s]
Power Factorization: 75%	376/500 [01:58<00:39,	3.13it/s]
Power Factorization: 75%	377/500 [01:58<00:37,	3.26it/s]
Power Factorization: 76%	378/500 [01:59<00:37,	3.27it/s]
Power Factorization: 76%	379/500 [01:59<00:37,	3.23it/s]
Power Factorization: 76%	380/500 [01:59<00:36,	3.25it/s]
Power Factorization: 76%	381/500 [02:00<00:35,	3.36it/s]
Power Factorization: 76%	382/500 [02:00<00:33,	3.47it/s]
Power Factorization: 77%	383/500 [02:00<00:33,	3.45it/s]
Power Factorization: 77%	384/500 [02:00<00:33,	3.46it/s]
Power Factorization: 77%	385/500 [02:01<00:31,	3.69it/s]
Power Factorization: 77%	386/500 [02:01<00:32,	3.52it/s]
Power Factorization: 77%	387/500 [02:01<00:31,	3.59it/s]
Power Factorization: 78%	388/500 [02:01<00:28,	3.87it/s]
Power Factorization: 78%	389/500 [02:02<00:28,	3.86it/s]
Power Factorization: 78%	390/500 [02:02<00:37,	2.97it/s]
Power Factorization: 78%	391/500 [02:03<00:34,	3.19it/s]
Power Factorization: 78%	392/500 [02:03<00:31,	3.41it/s]
Power Factorization: 79%	393/500 [02:03<00:29,	3.60it/s]
Power Factorization: 79%	394/500 [02:03<00:28,	3.75it/s]
Power Factorization: 79%	395/500 [02:04<00:29,	3.51it/s]
Power Factorization: 79%	396/500 [02:04<00:27,	3.74it/s]

Power Factorization: 79%	397/500 [02:04<00:28, 3.65it/s]
Power Factorization: 80%	398/500 [02:04<00:27, 3.72it/s]
Power Factorization: 80%	399/500 [02:05<00:27, 3.64it/s]
Power Factorization: 80%	400/500 [02:05<00:29, 3.42it/s]
Power Factorization: 80%	401/500 [02:05<00:31, 3.17it/s]
Power Factorization: 80%	402/500 [02:06<00:28, 3.40it/s]
Power Factorization: 81%	403/500 [02:06<00:28, 3.35it/s]
Power Factorization: 81%	404/500 [02:06<00:27, 3.50it/s]
Power Factorization: 81%	405/500 [02:06<00:26, 3.63it/s]
Power Factorization: 81%	406/500 [02:07<00:26, 3.57it/s]
Power Factorization: 81%	407/500 [02:07<00:25, 3.62it/s]
Power Factorization: 82%	408/500 [02:07<00:25, 3.67it/s]
Power Factorization: 82%	409/500 [02:07<00:23, 3.84it/s]
Power Factorization: 82%	410/500 [02:08<00:24, 3.70it/s]
Power Factorization: 82%	411/500 [02:08<00:24, 3.60it/s]
Power Factorization: 82%	412/500 [02:08<00:23, 3.69it/s]
Power Factorization: 83%	413/500 [02:09<00:24, 3.52it/s]
Power Factorization: 83%	414/500 [02:09<00:25, 3.34it/s]
Power Factorization: 83%	415/500 [02:09<00:25, 3.35it/s]
Power Factorization: 83%	416/500 [02:09<00:23, 3.62it/s]
Power Factorization: 83%	417/500 [02:10<00:22, 3.65it/s]
Power Factorization: 84%	418/500 [02:10<00:21, 3.83it/s]
Power Factorization: 84%	419/500 [02:10<00:21, 3.85it/s]
Power Factorization: 84%	420/500 [02:11<00:21, 3.70it/s]

Power Factorization: 84%	421/500 [02:11<00:22, 3.55it/s]
Power Factorization: 84%	422/500 [02:11<00:21, 3.60it/s]
Power Factorization: 85%	423/500 [02:11<00:20, 3.71it/s]
Power Factorization: 85%	424/500 [02:12<00:20, 3.69it/s]
Power Factorization: 85%	425/500 [02:12<00:19, 3.76it/s]
Power Factorization: 85%	426/500 [02:12<00:19, 3.82it/s]
Power Factorization: 85%	427/500 [02:12<00:19, 3.71it/s]
Power Factorization: 86%	428/500 [02:13<00:20, 3.56it/s]
Power Factorization: 86%	429/500 [02:13<00:19, 3.62it/s]
Power Factorization: 86%	430/500 [02:13<00:18, 3.75it/s]
Power Factorization: 86%	431/500 [02:14<00:18, 3.75it/s]
Power Factorization: 86%	432/500 [02:14<00:18, 3.70it/s]
Power Factorization: 87%	433/500 [02:14<00:18, 3.54it/s]
Power Factorization: 87%	434/500 [02:14<00:18, 3.53it/s]
Power Factorization: 87%	435/500 [02:15<00:17, 3.67it/s]
Power Factorization: 87%	436/500 [02:15<00:17, 3.71it/s]
Power Factorization: 87%	437/500 [02:15<00:16, 3.74it/s]
Power Factorization: 88%	438/500 [02:15<00:17, 3.54it/s]
Power Factorization: 88%	439/500 [02:16<00:16, 3.65it/s]
Power Factorization: 88%	440/500 [02:16<00:16, 3.69it/s]
Power Factorization: 88%	441/500 [02:16<00:14, 3.97it/s]
Power Factorization: 88%	442/500 [02:16<00:14, 3.94it/s]
Power Factorization: 89%	443/500 [02:17<00:14, 3.85it/s]
Power Factorization: 89%	444/500 [02:17<00:14, 3.87it/s]

Power Factorization: 89%	445/500 [02:17<00:14,	3.84it/s]
Power Factorization: 89%	446/500 [02:18<00:13,	3.86it/s]
Power Factorization: 89%	447/500 [02:18<00:12,	4.11it/s]
Power Factorization: 90%	448/500 [02:18<00:13,	3.93it/s]
Power Factorization: 90%	449/500 [02:18<00:12,	4.15it/s]
Power Factorization: 90%	450/500 [02:18<00:12,	3.96it/s]
Power Factorization: 90%	451/500 [02:19<00:12,	3.93it/s]
Power Factorization: 90%	452/500 [02:19<00:12,	3.94it/s]
Power Factorization: 91%	453/500 [02:19<00:11,	4.01it/s]
Power Factorization: 91%	454/500 [02:19<00:10,	4.21it/s]
Power Factorization: 91%	455/500 [02:20<00:11,	3.91it/s]
Power Factorization: 91%	456/500 [02:20<00:10,	4.06it/s]
Power Factorization: 91%	457/500 [02:20<00:09,	4.37it/s]
Power Factorization: 92%	458/500 [02:20<00:09,	4.24it/s]
Power Factorization: 92%	459/500 [02:21<00:10,	4.01it/s]
Power Factorization: 92%	460/500 [02:21<00:10,	3.82it/s]
Power Factorization: 92%	461/500 [02:21<00:10,	3.85it/s]
Power Factorization: 92%	462/500 [02:21<00:09,	4.10it/s]
Power Factorization: 93%	463/500 [02:22<00:09,	3.93it/s]
Power Factorization: 93%	464/500 [02:22<00:09,	3.81it/s]
Power Factorization: 93%	465/500 [02:22<00:08,	3.99it/s]
Power Factorization: 93%	466/500 [02:22<00:08,	4.13it/s]
Power Factorization: 93%	467/500 [02:23<00:07,	4.14it/s]
Power Factorization: 94%	468/500 [02:23<00:08,	3.66it/s]

Power Factorization: 94%	469/500 [02:23<00:08, 3.82it/s]
Power Factorization: 94%	470/500 [02:24<00:09, 3.20it/s]
Power Factorization: 94%	471/500 [02:24<00:08, 3.23it/s]
Power Factorization: 94%	472/500 [02:26<00:20, 1.40it/s]
Power Factorization: 95%	473/500 [02:26<00:16, 1.60it/s]
Power Factorization: 95%	474/500 [02:26<00:13, 1.87it/s]
Power Factorization: 95%	475/500 [02:27<00:11, 2.15it/s]
Power Factorization: 95%	476/500 [02:27<00:10, 2.29it/s]
Power Factorization: 95%	477/500 [02:27<00:09, 2.49it/s]
Power Factorization: 96%	478/500 [02:28<00:08, 2.59it/s]
Power Factorization: 96%	479/500 [02:28<00:07, 2.75it/s]
Power Factorization: 96%	480/500 [02:29<00:07, 2.50it/s]
Power Factorization: 96%	481/500 [02:29<00:07, 2.68it/s]
Power Factorization: 96%	482/500 [02:29<00:06, 2.78it/s]
Power Factorization: 97%	483/500 [02:30<00:06, 2.75it/s]
Power Factorization: 97%	484/500 [02:30<00:06, 2.48it/s]
Power Factorization: 97%	485/500 [02:30<00:05, 2.68it/s]
Power Factorization: 97%	486/500 [02:31<00:06, 2.22it/s]
Power Factorization: 97%	487/500 [02:31<00:05, 2.37it/s]
Power Factorization: 98%	488/500 [02:32<00:04, 2.54it/s]
Power Factorization: 98%	489/500 [02:32<00:03, 2.81it/s]
Power Factorization: 98%	490/500 [02:32<00:03, 3.07it/s]
Power Factorization: 98%	491/500 [02:33<00:03, 2.86it/s]
Power Factorization: 98%	492/500 [02:33<00:02, 3.02it/s]

Power Factorization: 99%	493/500 [02:34<00:03, 2.30it/s]
Power Factorization: 99%	494/500 [02:34<00:02, 2.20it/s]
Power Factorization: 99%	495/500 [02:35<00:02, 1.67it/s]
Power Factorization: 99%	496/500 [02:35<00:02, 1.83it/s]
Power Factorization: 99%	497/500 [02:36<00:01, 2.03it/s]
Power Factorization: 100%	498/500 [02:36<00:00, 2.23it/s]
Power Factorization: 100%	499/500 [02:36<00:00, 2.43it/s]
Power Factorization: 100%	500/500 [02:37<00:00, 3.18it/s]
Cross Validation: 60%	3/5 [08:11<05:26, 163.22s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:28, 3.37it/s]
Power Factorization: 0%	2/500 [00:00<02:31, 3.28it/s]
Power Factorization: 1%	3/500 [00:00<02:34, 3.22it/s]
Power Factorization: 1%	4/500 [00:01<03:28, 2.38it/s]
Power Factorization: 1%	5/500 [00:01<03:13, 2.56it/s]
Power Factorization: 1%	6/500 [00:02<02:58, 2.77it/s]
Power Factorization: 1%	7/500 [00:02<02:58, 2.76it/s]
Power Factorization: 2%	8/500 [00:03<03:20, 2.45it/s]
Power Factorization: 2%	9/500 [00:04<05:20, 1.53it/s]
Power Factorization: 2%	10/500 [00:04<04:45, 1.72it/s]
Power Factorization: 2%	11/500 [00:04<03:54, 2.08it/s]
Power Factorization: 2%	12/500 [00:05<03:26, 2.36it/s]
Power Factorization: 3%	13/500 [00:05<03:07, 2.59it/s]
Power Factorization: 3%	14/500 [00:05<03:25, 2.36it/s]

Power Factorization:	3%	15/500	[00:06<03:19,	2.44it/s]
Power Factorization:	3%	16/500	[00:06<02:59,	2.70it/s]
Power Factorization:	3%	17/500	[00:06<02:50,	2.83it/s]
Power Factorization:	4%	18/500	[00:07<03:34,	2.25it/s]
Power Factorization:	4%	19/500	[00:07<03:16,	2.44it/s]
Power Factorization:	4%	20/500	[00:08<03:02,	2.63it/s]
Power Factorization:	4%	21/500	[00:08<02:48,	2.84it/s]
Power Factorization:	4%	22/500	[00:09<03:53,	2.05it/s]
Power Factorization:	5%	23/500	[00:09<03:36,	2.20it/s]
Power Factorization:	5%	24/500	[00:10<03:30,	2.27it/s]
Power Factorization:	5%	25/500	[00:10<04:07,	1.92it/s]
Power Factorization:	5%	26/500	[00:11<03:46,	2.10it/s]
Power Factorization:	5%	27/500	[00:11<03:19,	2.37it/s]
Power Factorization:	6%	28/500	[00:12<03:43,	2.11it/s]
Power Factorization:	6%	29/500	[00:12<03:20,	2.35it/s]
Power Factorization:	6%	30/500	[00:12<03:03,	2.56it/s]
Power Factorization:	6%	31/500	[00:13<02:47,	2.81it/s]
Power Factorization:	6%	32/500	[00:13<02:40,	2.92it/s]
Power Factorization:	7%	33/500	[00:13<02:37,	2.96it/s]
Power Factorization:	7%	34/500	[00:13<02:39,	2.92it/s]
Power Factorization:	7%	35/500	[00:14<02:29,	3.11it/s]
Power Factorization:	7%	36/500	[00:15<03:56,	1.96it/s]
Power Factorization:	7%	37/500	[00:15<03:35,	2.15it/s]
Power Factorization:	8%	38/500	[00:15<03:11,	2.41it/s]

Power Factorization:	8%	39/500	[00:16<02:51,	2.69it/s]
Power Factorization:	8%	40/500	[00:16<02:38,	2.90it/s]
Power Factorization:	8%	41/500	[00:16<02:45,	2.77it/s]
Power Factorization:	8%	42/500	[00:17<02:42,	2.82it/s]
Power Factorization:	9%	43/500	[00:17<02:40,	2.84it/s]
Power Factorization:	9%	44/500	[00:17<02:45,	2.76it/s]
Power Factorization:	9%	45/500	[00:18<02:36,	2.90it/s]
Power Factorization:	9%	46/500	[00:18<02:33,	2.95it/s]
Power Factorization:	9%	47/500	[00:18<02:36,	2.90it/s]
Power Factorization:	10%	48/500	[00:19<02:39,	2.83it/s]
Power Factorization:	10%	49/500	[00:19<02:33,	2.94it/s]
Power Factorization:	10%	50/500	[00:19<02:24,	3.11it/s]
Power Factorization:	10%	51/500	[00:20<02:19,	3.22it/s]
Power Factorization:	10%	52/500	[00:20<02:22,	3.14it/s]
Power Factorization:	11%	53/500	[00:20<02:24,	3.08it/s]
Power Factorization:	11%	54/500	[00:21<02:19,	3.20it/s]
Power Factorization:	11%	55/500	[00:21<02:22,	3.13it/s]
Power Factorization:	11%	56/500	[00:21<02:19,	3.18it/s]
Power Factorization:	11%	57/500	[00:22<02:18,	3.20it/s]
Power Factorization:	12%	58/500	[00:22<02:11,	3.35it/s]
Power Factorization:	12%	59/500	[00:22<02:28,	2.97it/s]
Power Factorization:	12%	60/500	[00:23<02:25,	3.02it/s]
Power Factorization:	12%	61/500	[00:23<02:30,	2.92it/s]
Power Factorization:	12%	62/500	[00:23<02:32,	2.88it/s]

Power Factorization: 13%	63/500 [00:24<02:27, 2.96it/s]
Power Factorization: 13%	64/500 [00:24<02:22, 3.05it/s]
Power Factorization: 13%	65/500 [00:24<02:25, 3.00it/s]
Power Factorization: 13%	66/500 [00:25<02:35, 2.78it/s]
Power Factorization: 13%	67/500 [00:25<02:25, 2.97it/s]
Power Factorization: 14%	68/500 [00:25<02:25, 2.97it/s]
Power Factorization: 14%	69/500 [00:26<02:22, 3.02it/s]
Power Factorization: 14%	70/500 [00:26<02:22, 3.02it/s]
Power Factorization: 14%	71/500 [00:26<02:14, 3.18it/s]
Power Factorization: 14%	72/500 [00:28<06:05, 1.17it/s]
Power Factorization: 15%	73/500 [00:29<06:01, 1.18it/s]
Power Factorization: 15%	74/500 [00:29<04:51, 1.46it/s]
Power Factorization: 15%	75/500 [00:30<04:11, 1.69it/s]
Power Factorization: 15%	76/500 [00:30<03:35, 1.97it/s]
Power Factorization: 15%	77/500 [00:30<03:07, 2.25it/s]
Power Factorization: 16%	78/500 [00:32<04:36, 1.53it/s]
Power Factorization: 16%	79/500 [00:32<04:04, 1.72it/s]
Power Factorization: 16%	80/500 [00:32<03:37, 1.93it/s]
Power Factorization: 16%	81/500 [00:33<03:13, 2.17it/s]
Power Factorization: 16%	82/500 [00:33<03:02, 2.29it/s]
Power Factorization: 17%	83/500 [00:33<02:48, 2.47it/s]
Power Factorization: 17%	84/500 [00:34<02:55, 2.37it/s]
Power Factorization: 17%	85/500 [00:34<03:06, 2.22it/s]
Power Factorization: 17%	86/500 [00:35<03:20, 2.06it/s]

Power Factorization: 17%	87/500 [00:35<03:05, 2.23it/s]
Power Factorization: 18%	88/500 [00:36<03:03, 2.25it/s]
Power Factorization: 18%	89/500 [00:36<02:55, 2.34it/s]
Power Factorization: 18%	90/500 [00:37<02:50, 2.41it/s]
Power Factorization: 18%	91/500 [00:37<02:39, 2.57it/s]
Power Factorization: 18%	92/500 [00:37<02:23, 2.84it/s]
Power Factorization: 19%	93/500 [00:37<02:20, 2.90it/s]
Power Factorization: 19%	94/500 [00:38<02:17, 2.95it/s]
Power Factorization: 19%	95/500 [00:38<02:08, 3.15it/s]
Power Factorization: 19%	96/500 [00:38<02:12, 3.06it/s]
Power Factorization: 19%	97/500 [00:39<02:00, 3.34it/s]
Power Factorization: 20%	98/500 [00:39<01:54, 3.53it/s]
Power Factorization: 20%	99/500 [00:39<01:54, 3.51it/s]
Power Factorization: 20%	100/500 [00:40<02:01, 3.29it/s]
Power Factorization: 20%	101/500 [00:40<02:28, 2.69it/s]
Power Factorization: 20%	102/500 [00:40<02:31, 2.63it/s]
Power Factorization: 21%	103/500 [00:41<02:38, 2.51it/s]
Power Factorization: 21%	104/500 [00:41<02:26, 2.71it/s]
Power Factorization: 21%	105/500 [00:42<02:23, 2.75it/s]
Power Factorization: 21%	106/500 [00:42<02:40, 2.46it/s]
Power Factorization: 21%	107/500 [00:42<02:23, 2.74it/s]
Power Factorization: 22%	108/500 [00:43<02:12, 2.97it/s]
Power Factorization: 22%	109/500 [00:43<02:06, 3.08it/s]
Power Factorization: 22%	110/500 [00:43<02:01, 3.21it/s]

Power Factorization: 22%	111/500 [00:43<01:58, 3.28it/s]
Power Factorization: 22%	112/500 [00:44<01:57, 3.31it/s]
Power Factorization: 23%	113/500 [00:44<02:22, 2.71it/s]
Power Factorization: 23%	114/500 [00:45<02:12, 2.91it/s]
Power Factorization: 23%	115/500 [00:45<02:08, 2.99it/s]
Power Factorization: 23%	116/500 [00:45<02:32, 2.52it/s]
Power Factorization: 23%	117/500 [00:46<02:24, 2.66it/s]
Power Factorization: 24%	118/500 [00:46<02:25, 2.63it/s]
Power Factorization: 24%	119/500 [00:46<02:13, 2.86it/s]
Power Factorization: 24%	120/500 [00:47<02:04, 3.05it/s]
Power Factorization: 24%	121/500 [00:47<01:56, 3.26it/s]
Power Factorization: 24%	122/500 [00:47<01:59, 3.17it/s]
Power Factorization: 25%	123/500 [00:48<01:55, 3.26it/s]
Power Factorization: 25%	124/500 [00:48<01:51, 3.36it/s]
Power Factorization: 25%	125/500 [00:48<01:55, 3.25it/s]
Power Factorization: 25%	126/500 [00:48<01:57, 3.18it/s]
Power Factorization: 25%	127/500 [00:49<01:59, 3.11it/s]
Power Factorization: 26%	128/500 [00:49<01:52, 3.31it/s]
Power Factorization: 26%	129/500 [00:49<01:55, 3.22it/s]
Power Factorization: 26%	130/500 [00:50<01:48, 3.41it/s]
Power Factorization: 26%	131/500 [00:50<01:41, 3.63it/s]
Power Factorization: 26%	132/500 [00:50<01:40, 3.68it/s]
Power Factorization: 27%	133/500 [00:50<01:37, 3.77it/s]
Power Factorization: 27%	134/500 [00:51<01:45, 3.47it/s]

Power Factorization: 27%	135/500 [00:51<01:42, 3.57it/s]
Power Factorization: 27%	136/500 [00:51<01:41, 3.59it/s]
Power Factorization: 27%	137/500 [00:52<01:40, 3.62it/s]
Power Factorization: 28%	138/500 [00:52<01:40, 3.59it/s]
Power Factorization: 28%	139/500 [00:52<01:39, 3.63it/s]
Power Factorization: 28%	140/500 [00:52<01:40, 3.59it/s]
Power Factorization: 28%	141/500 [00:53<01:41, 3.52it/s]
Power Factorization: 28%	142/500 [00:53<01:41, 3.52it/s]
Power Factorization: 29%	143/500 [00:53<01:38, 3.61it/s]
Power Factorization: 29%	144/500 [00:54<01:36, 3.68it/s]
Power Factorization: 29%	145/500 [00:54<01:32, 3.82it/s]
Power Factorization: 29%	146/500 [00:54<01:38, 3.60it/s]
Power Factorization: 29%	147/500 [00:54<01:40, 3.52it/s]
Power Factorization: 30%	148/500 [00:55<01:41, 3.48it/s]
Power Factorization: 30%	149/500 [00:55<01:44, 3.36it/s]
Power Factorization: 30%	150/500 [00:55<01:37, 3.59it/s]
Power Factorization: 30%	151/500 [00:55<01:38, 3.56it/s]
Power Factorization: 30%	152/500 [00:56<01:40, 3.46it/s]
Power Factorization: 31%	153/500 [00:56<01:43, 3.34it/s]
Power Factorization: 31%	154/500 [00:56<01:45, 3.28it/s]
Power Factorization: 31%	155/500 [00:57<01:56, 2.97it/s]
Power Factorization: 31%	156/500 [00:57<01:47, 3.20it/s]
Power Factorization: 31%	157/500 [00:57<01:38, 3.47it/s]
Power Factorization: 32%	158/500 [00:58<01:37, 3.51it/s]

Power Factorization: 32%	159/500 [00:58<01:35, 3.57it/s]
Power Factorization: 32%	160/500 [00:58<01:31, 3.70it/s]
Power Factorization: 32%	161/500 [00:58<01:30, 3.74it/s]
Power Factorization: 32%	162/500 [00:59<01:36, 3.51it/s]
Power Factorization: 33%	163/500 [00:59<01:44, 3.23it/s]
Power Factorization: 33%	164/500 [00:59<01:37, 3.46it/s]
Power Factorization: 33%	165/500 [01:00<01:36, 3.46it/s]
Power Factorization: 33%	166/500 [01:00<01:37, 3.43it/s]
Power Factorization: 33%	167/500 [01:00<01:39, 3.34it/s]
Power Factorization: 34%	168/500 [01:01<01:36, 3.44it/s]
Power Factorization: 34%	169/500 [01:01<01:36, 3.44it/s]
Power Factorization: 34%	170/500 [01:01<01:37, 3.40it/s]
Power Factorization: 34%	171/500 [01:01<01:34, 3.48it/s]
Power Factorization: 34%	172/500 [01:02<01:31, 3.59it/s]
Power Factorization: 35%	173/500 [01:02<01:28, 3.71it/s]
Power Factorization: 35%	174/500 [01:02<01:32, 3.54it/s]
Power Factorization: 35%	175/500 [01:03<01:40, 3.24it/s]
Power Factorization: 35%	176/500 [01:03<01:41, 3.19it/s]
Power Factorization: 35%	177/500 [01:03<01:39, 3.24it/s]
Power Factorization: 36%	178/500 [01:03<01:32, 3.47it/s]
Power Factorization: 36%	179/500 [01:04<01:35, 3.35it/s]
Power Factorization: 36%	180/500 [01:04<01:34, 3.39it/s]
Power Factorization: 36%	181/500 [01:04<01:29, 3.56it/s]
Power Factorization: 36%	182/500 [01:05<01:30, 3.52it/s]

Power Factorization: 37%	183/500 [01:05<01:34, 3.35it/s]
Power Factorization: 37%	184/500 [01:05<01:34, 3.35it/s]
Power Factorization: 37%	185/500 [01:05<01:31, 3.43it/s]
Power Factorization: 37%	186/500 [01:06<01:35, 3.30it/s]
Power Factorization: 37%	187/500 [01:06<01:40, 3.12it/s]
Power Factorization: 38%	188/500 [01:06<01:33, 3.33it/s]
Power Factorization: 38%	189/500 [01:07<01:35, 3.27it/s]
Power Factorization: 38%	190/500 [01:07<01:29, 3.45it/s]
Power Factorization: 38%	191/500 [01:07<01:33, 3.31it/s]
Power Factorization: 38%	192/500 [01:08<01:32, 3.35it/s]
Power Factorization: 39%	193/500 [01:08<01:26, 3.53it/s]
Power Factorization: 39%	194/500 [01:08<01:28, 3.46it/s]
Power Factorization: 39%	195/500 [01:08<01:28, 3.45it/s]
Power Factorization: 39%	196/500 [01:09<01:34, 3.20it/s]
Power Factorization: 39%	197/500 [01:09<01:31, 3.32it/s]
Power Factorization: 40%	198/500 [01:09<01:33, 3.22it/s]
Power Factorization: 40%	199/500 [01:10<01:34, 3.19it/s]
Power Factorization: 40%	200/500 [01:10<01:28, 3.38it/s]
Power Factorization: 40%	201/500 [01:10<01:28, 3.39it/s]
Power Factorization: 40%	202/500 [01:11<01:28, 3.36it/s]
Power Factorization: 41%	203/500 [01:11<01:27, 3.38it/s]
Power Factorization: 41%	204/500 [01:11<01:42, 2.89it/s]
Power Factorization: 41%	205/500 [01:12<01:43, 2.85it/s]
Power Factorization: 41%	206/500 [01:12<01:41, 2.91it/s]

Power Factorization: 41%	207/500 [01:12<01:35, 3.07it/s]
Power Factorization: 42%	208/500 [01:13<01:29, 3.27it/s]
Power Factorization: 42%	209/500 [01:13<01:27, 3.34it/s]
Power Factorization: 42%	210/500 [01:13<01:25, 3.38it/s]
Power Factorization: 42%	211/500 [01:13<01:23, 3.48it/s]
Power Factorization: 42%	212/500 [01:14<01:20, 3.56it/s]
Power Factorization: 43%	213/500 [01:14<01:27, 3.30it/s]
Power Factorization: 43%	214/500 [01:14<01:27, 3.27it/s]
Power Factorization: 43%	215/500 [01:15<01:25, 3.33it/s]
Power Factorization: 43%	216/500 [01:15<01:25, 3.32it/s]
Power Factorization: 43%	217/500 [01:15<01:23, 3.40it/s]
Power Factorization: 44%	218/500 [01:16<01:21, 3.45it/s]
Power Factorization: 44%	219/500 [01:16<01:18, 3.56it/s]
Power Factorization: 44%	220/500 [01:16<01:20, 3.48it/s]
Power Factorization: 44%	221/500 [01:16<01:15, 3.71it/s]
Power Factorization: 44%	222/500 [01:17<01:14, 3.71it/s]
Power Factorization: 45%	223/500 [01:17<01:14, 3.70it/s]
Power Factorization: 45%	224/500 [01:17<01:14, 3.71it/s]
Power Factorization: 45%	225/500 [01:17<01:17, 3.54it/s]
Power Factorization: 45%	226/500 [01:18<01:16, 3.57it/s]
Power Factorization: 45%	227/500 [01:18<01:18, 3.48it/s]
Power Factorization: 46%	228/500 [01:18<01:19, 3.41it/s]
Power Factorization: 46%	229/500 [01:19<01:16, 3.55it/s]
Power Factorization: 46%	230/500 [01:19<01:16, 3.55it/s]

Power Factorization: 46%	231/500 [01:19<01:19, 3.40it/s]
Power Factorization: 46%	232/500 [01:19<01:20, 3.32it/s]
Power Factorization: 47%	233/500 [01:20<01:23, 3.19it/s]
Power Factorization: 47%	234/500 [01:20<01:20, 3.31it/s]
Power Factorization: 47%	235/500 [01:20<01:16, 3.45it/s]
Power Factorization: 47%	236/500 [01:21<01:17, 3.41it/s]
Power Factorization: 47%	237/500 [01:21<01:18, 3.34it/s]
Power Factorization: 48%	238/500 [01:21<01:18, 3.35it/s]
Power Factorization: 48%	239/500 [01:22<01:15, 3.45it/s]
Power Factorization: 48%	240/500 [01:22<01:17, 3.35it/s]
Power Factorization: 48%	241/500 [01:22<01:20, 3.22it/s]
Power Factorization: 48%	242/500 [01:23<01:18, 3.27it/s]
Power Factorization: 49%	243/500 [01:23<01:23, 3.09it/s]
Power Factorization: 49%	244/500 [01:23<01:25, 3.00it/s]
Power Factorization: 49%	245/500 [01:23<01:18, 3.24it/s]
Power Factorization: 49%	246/500 [01:24<01:18, 3.25it/s]
Power Factorization: 49%	247/500 [01:24<01:16, 3.31it/s]
Power Factorization: 50%	248/500 [01:24<01:11, 3.52it/s]
Power Factorization: 50%	249/500 [01:25<01:11, 3.51it/s]
Power Factorization: 50%	250/500 [01:25<01:11, 3.51it/s]
Power Factorization: 50%	251/500 [01:25<01:11, 3.48it/s]
Power Factorization: 50%	252/500 [01:25<01:11, 3.45it/s]
Power Factorization: 51%	253/500 [01:26<01:15, 3.28it/s]
Power Factorization: 51%	254/500 [01:26<01:20, 3.07it/s]

Power Factorization: 51%	255/500 [01:27<01:21, 3.00it/s]
Power Factorization: 51%	256/500 [01:27<01:17, 3.15it/s]
Power Factorization: 51%	257/500 [01:27<01:13, 3.31it/s]
Power Factorization: 52%	258/500 [01:27<01:11, 3.41it/s]
Power Factorization: 52%	259/500 [01:28<01:15, 3.20it/s]
Power Factorization: 52%	260/500 [01:28<01:10, 3.38it/s]
Power Factorization: 52%	261/500 [01:31<04:00, 1.01s/it]
Power Factorization: 52%	262/500 [01:31<03:08, 1.26it/s]
Power Factorization: 53%	263/500 [01:31<02:45, 1.43it/s]
Power Factorization: 53%	264/500 [01:32<02:20, 1.69it/s]
Power Factorization: 53%	265/500 [01:32<02:10, 1.80it/s]
Power Factorization: 53%	266/500 [01:33<01:57, 1.99it/s]
Power Factorization: 53%	267/500 [01:33<01:41, 2.29it/s]
Power Factorization: 54%	268/500 [01:33<01:35, 2.42it/s]
Power Factorization: 54%	269/500 [01:34<01:28, 2.61it/s]
Power Factorization: 54%	270/500 [01:34<01:22, 2.80it/s]
Power Factorization: 54%	271/500 [01:34<01:24, 2.70it/s]
Power Factorization: 54%	272/500 [01:35<01:26, 2.63it/s]
Power Factorization: 55%	273/500 [01:35<01:26, 2.62it/s]
Power Factorization: 55%	274/500 [01:35<01:19, 2.84it/s]
Power Factorization: 55%	275/500 [01:36<01:18, 2.87it/s]
Power Factorization: 55%	276/500 [01:36<01:13, 3.04it/s]
Power Factorization: 55%	277/500 [01:36<01:15, 2.97it/s]
Power Factorization: 56%	278/500 [01:37<01:24, 2.63it/s]

Power Factorization: 56%	279/500 [01:37<01:19, 2.80it/s]
Power Factorization: 56%	280/500 [01:37<01:13, 2.98it/s]
Power Factorization: 56%	281/500 [01:38<01:20, 2.73it/s]
Power Factorization: 56%	282/500 [01:38<01:21, 2.68it/s]
Power Factorization: 57%	283/500 [01:39<01:25, 2.54it/s]
Power Factorization: 57%	284/500 [01:39<01:23, 2.59it/s]
Power Factorization: 57%	285/500 [01:39<01:18, 2.75it/s]
Power Factorization: 57%	286/500 [01:40<01:10, 3.05it/s]
Power Factorization: 57%	287/500 [01:40<01:11, 2.99it/s]
Power Factorization: 58%	288/500 [01:40<01:04, 3.28it/s]
Power Factorization: 58%	289/500 [01:40<01:05, 3.24it/s]
Power Factorization: 58%	290/500 [01:41<01:07, 3.13it/s]
Power Factorization: 58%	291/500 [01:41<01:04, 3.24it/s]
Power Factorization: 58%	292/500 [01:41<01:02, 3.32it/s]
Power Factorization: 59%	293/500 [01:42<01:07, 3.07it/s]
Power Factorization: 59%	294/500 [01:42<01:06, 3.08it/s]
Power Factorization: 59%	295/500 [01:43<01:25, 2.38it/s]
Power Factorization: 59%	296/500 [01:43<01:15, 2.70it/s]
Power Factorization: 59%	297/500 [01:43<01:06, 3.03it/s]
Power Factorization: 60%	298/500 [01:44<01:10, 2.88it/s]
Power Factorization: 60%	299/500 [01:44<01:12, 2.78it/s]
Power Factorization: 60%	300/500 [01:44<01:07, 2.96it/s]
Power Factorization: 60%	301/500 [01:45<01:01, 3.21it/s]
Power Factorization: 60%	302/500 [01:45<01:08, 2.89it/s]

Power Factorization: 61%	303/500 [01:45<01:03, 3.10it/s]
Power Factorization: 61%	304/500 [01:45<01:00, 3.25it/s]
Power Factorization: 61%	305/500 [01:46<00:58, 3.36it/s]
Power Factorization: 61%	306/500 [01:46<01:02, 3.13it/s]
Power Factorization: 61%	307/500 [01:47<01:09, 2.76it/s]
Power Factorization: 62%	308/500 [01:47<01:09, 2.76it/s]
Power Factorization: 62%	309/500 [01:47<01:03, 3.01it/s]
Power Factorization: 62%	310/500 [01:48<01:01, 3.07it/s]
Power Factorization: 62%	311/500 [01:48<00:59, 3.17it/s]
Power Factorization: 62%	312/500 [01:48<00:59, 3.18it/s]
Power Factorization: 63%	313/500 [01:48<00:56, 3.32it/s]
Power Factorization: 63%	314/500 [01:49<01:08, 2.71it/s]
Power Factorization: 63%	315/500 [01:49<01:05, 2.81it/s]
Power Factorization: 63%	316/500 [01:50<01:01, 2.98it/s]
Power Factorization: 63%	317/500 [01:50<01:00, 3.04it/s]
Power Factorization: 64%	318/500 [01:50<01:15, 2.42it/s]
Power Factorization: 64%	319/500 [01:51<01:08, 2.64it/s]
Power Factorization: 64%	320/500 [01:51<01:06, 2.71it/s]
Power Factorization: 64%	321/500 [01:51<01:00, 2.95it/s]
Power Factorization: 64%	322/500 [01:52<01:06, 2.67it/s]
Power Factorization: 65%	323/500 [01:52<01:04, 2.75it/s]
Power Factorization: 65%	324/500 [01:53<01:02, 2.84it/s]
Power Factorization: 65%	325/500 [01:53<01:03, 2.75it/s]
Power Factorization: 65%	326/500 [01:53<01:00, 2.88it/s]

Power Factorization: 65%	327/500 [01:54<00:57, 3.03it/s]
Power Factorization: 66%	328/500 [01:54<00:53, 3.24it/s]
Power Factorization: 66%	329/500 [01:54<01:03, 2.71it/s]
Power Factorization: 66%	330/500 [01:55<01:07, 2.52it/s]
Power Factorization: 66%	331/500 [01:55<01:05, 2.57it/s]
Power Factorization: 66%	332/500 [01:55<01:01, 2.75it/s]
Power Factorization: 67%	333/500 [01:56<00:57, 2.88it/s]
Power Factorization: 67%	334/500 [01:56<00:57, 2.91it/s]
Power Factorization: 67%	335/500 [01:56<00:54, 3.05it/s]
Power Factorization: 67%	336/500 [01:57<00:51, 3.21it/s]
Power Factorization: 67%	337/500 [01:57<00:49, 3.31it/s]
Power Factorization: 68%	338/500 [01:57<00:49, 3.25it/s]
Power Factorization: 68%	339/500 [01:58<00:50, 3.16it/s]
Power Factorization: 68%	340/500 [01:58<00:48, 3.32it/s]
Power Factorization: 68%	341/500 [01:58<00:45, 3.53it/s]
Power Factorization: 68%	342/500 [01:58<00:43, 3.62it/s]
Power Factorization: 69%	343/500 [01:59<00:43, 3.57it/s]
Power Factorization: 69%	344/500 [01:59<00:43, 3.57it/s]
Power Factorization: 69%	345/500 [01:59<00:42, 3.66it/s]
Power Factorization: 69%	346/500 [01:59<00:42, 3.58it/s]
Power Factorization: 69%	347/500 [02:00<00:46, 3.30it/s]
Power Factorization: 70%	348/500 [02:00<00:58, 2.62it/s]
Power Factorization: 70%	349/500 [02:01<00:53, 2.83it/s]
Power Factorization: 70%	350/500 [02:01<00:54, 2.77it/s]

Power Factorization: 70%	351/500 [02:01<00:56, 2.65it/s]
Power Factorization: 70%	352/500 [02:02<00:53, 2.74it/s]
Power Factorization: 71%	353/500 [02:02<00:50, 2.93it/s]
Power Factorization: 71%	354/500 [02:02<00:50, 2.89it/s]
Power Factorization: 71%	355/500 [02:03<00:52, 2.78it/s]
Power Factorization: 71%	356/500 [02:03<00:48, 2.99it/s]
Power Factorization: 71%	357/500 [02:03<00:44, 3.20it/s]
Power Factorization: 72%	358/500 [02:04<00:42, 3.32it/s]
Power Factorization: 72%	359/500 [02:04<00:41, 3.42it/s]
Power Factorization: 72%	360/500 [02:04<00:41, 3.39it/s]
Power Factorization: 72%	361/500 [02:05<00:41, 3.33it/s]
Power Factorization: 72%	362/500 [02:05<00:40, 3.40it/s]
Power Factorization: 73%	363/500 [02:05<00:42, 3.26it/s]
Power Factorization: 73%	364/500 [02:05<00:43, 3.12it/s]
Power Factorization: 73%	365/500 [02:06<00:45, 2.96it/s]
Power Factorization: 73%	366/500 [02:06<00:44, 3.03it/s]
Power Factorization: 73%	367/500 [02:07<00:44, 2.97it/s]
Power Factorization: 74%	368/500 [02:07<00:44, 2.97it/s]
Power Factorization: 74%	369/500 [02:07<00:42, 3.06it/s]
Power Factorization: 74%	370/500 [02:07<00:40, 3.24it/s]
Power Factorization: 74%	371/500 [02:08<00:40, 3.16it/s]
Power Factorization: 74%	372/500 [02:08<00:38, 3.34it/s]
Power Factorization: 75%	373/500 [02:08<00:37, 3.41it/s]
Power Factorization: 75%	374/500 [02:09<00:38, 3.29it/s]

Power Factorization: 75%	375/500 [02:09<00:37, 3.33it/s]
Power Factorization: 75%	376/500 [02:09<00:36, 3.43it/s]
Power Factorization: 75%	377/500 [02:09<00:34, 3.58it/s]
Power Factorization: 76%	378/500 [02:10<00:36, 3.35it/s]
Power Factorization: 76%	379/500 [02:10<00:35, 3.44it/s]
Power Factorization: 76%	380/500 [02:10<00:36, 3.30it/s]
Power Factorization: 76%	381/500 [02:11<00:34, 3.40it/s]
Power Factorization: 76%	382/500 [02:11<00:33, 3.54it/s]
Power Factorization: 77%	383/500 [02:11<00:32, 3.59it/s]
Power Factorization: 77%	384/500 [02:12<00:33, 3.46it/s]
Power Factorization: 77%	385/500 [02:12<00:37, 3.10it/s]
Power Factorization: 77%	386/500 [02:12<00:35, 3.22it/s]
Power Factorization: 77%	387/500 [02:13<00:37, 3.04it/s]
Power Factorization: 78%	388/500 [02:13<00:35, 3.11it/s]
Power Factorization: 78%	389/500 [02:13<00:33, 3.30it/s]
Power Factorization: 78%	390/500 [02:13<00:32, 3.43it/s]
Power Factorization: 78%	391/500 [02:14<00:33, 3.23it/s]
Power Factorization: 78%	392/500 [02:14<00:34, 3.13it/s]
Power Factorization: 79%	393/500 [02:14<00:33, 3.16it/s]
Power Factorization: 79%	394/500 [02:15<00:35, 2.96it/s]
Power Factorization: 79%	395/500 [02:15<00:33, 3.14it/s]
Power Factorization: 79%	396/500 [02:15<00:33, 3.10it/s]
Power Factorization: 79%	397/500 [02:16<00:34, 3.00it/s]
Power Factorization: 80%	398/500 [02:16<00:32, 3.10it/s]

Power Factorization: 80%	399/500 [02:17<00:37, 2.66it/s]
Power Factorization: 80%	400/500 [02:17<00:34, 2.93it/s]
Power Factorization: 80%	401/500 [02:17<00:32, 3.03it/s]
Power Factorization: 80%	402/500 [02:17<00:31, 3.14it/s]
Power Factorization: 81%	403/500 [02:18<00:31, 3.07it/s]
Power Factorization: 81%	404/500 [02:18<00:29, 3.23it/s]
Power Factorization: 81%	405/500 [02:18<00:28, 3.37it/s]
Power Factorization: 81%	406/500 [02:19<00:27, 3.39it/s]
Power Factorization: 81%	407/500 [02:19<00:26, 3.51it/s]
Power Factorization: 82%	408/500 [02:19<00:27, 3.36it/s]
Power Factorization: 82%	409/500 [02:19<00:27, 3.28it/s]
Power Factorization: 82%	410/500 [02:20<00:26, 3.36it/s]
Power Factorization: 82%	411/500 [02:20<00:26, 3.32it/s]
Power Factorization: 82%	412/500 [02:20<00:27, 3.17it/s]
Power Factorization: 83%	413/500 [02:21<00:25, 3.35it/s]
Power Factorization: 83%	414/500 [02:21<00:27, 3.11it/s]
Power Factorization: 83%	415/500 [02:21<00:29, 2.89it/s]
Power Factorization: 83%	416/500 [02:22<00:30, 2.80it/s]
Power Factorization: 83%	417/500 [02:22<00:29, 2.78it/s]
Power Factorization: 84%	418/500 [02:23<00:28, 2.84it/s]
Power Factorization: 84%	419/500 [02:23<00:26, 3.07it/s]
Power Factorization: 84%	420/500 [02:23<00:24, 3.22it/s]
Power Factorization: 84%	421/500 [02:23<00:24, 3.21it/s]
Power Factorization: 84%	422/500 [02:24<00:24, 3.16it/s]

Power Factorization: 85%	423/500 [02:24<00:23,	3.24it/s]
Power Factorization: 85%	424/500 [02:24<00:23,	3.27it/s]
Power Factorization: 85%	425/500 [02:25<00:23,	3.14it/s]
Power Factorization: 85%	426/500 [02:25<00:23,	3.20it/s]
Power Factorization: 85%	427/500 [02:25<00:22,	3.25it/s]
Power Factorization: 86%	428/500 [02:26<00:22,	3.20it/s]
Power Factorization: 86%	429/500 [02:26<00:23,	3.02it/s]
Power Factorization: 86%	430/500 [02:26<00:23,	2.92it/s]
Power Factorization: 86%	431/500 [02:27<00:26,	2.56it/s]
Power Factorization: 86%	432/500 [02:27<00:26,	2.58it/s]
Power Factorization: 87%	433/500 [02:27<00:23,	2.84it/s]
Power Factorization: 87%	434/500 [02:28<00:22,	2.91it/s]
Power Factorization: 87%	435/500 [02:28<00:21,	3.01it/s]
Power Factorization: 87%	436/500 [02:29<00:23,	2.68it/s]
Power Factorization: 87%	437/500 [02:29<00:22,	2.84it/s]
Power Factorization: 88%	438/500 [02:29<00:22,	2.76it/s]
Power Factorization: 88%	439/500 [02:30<00:21,	2.83it/s]
Power Factorization: 88%	440/500 [02:30<00:21,	2.85it/s]
Power Factorization: 88%	441/500 [02:30<00:21,	2.78it/s]
Power Factorization: 88%	442/500 [02:31<00:20,	2.79it/s]
Power Factorization: 89%	443/500 [02:31<00:21,	2.67it/s]
Power Factorization: 89%	444/500 [02:31<00:21,	2.62it/s]
Power Factorization: 89%	445/500 [02:32<00:20,	2.63it/s]
Power Factorization: 89%	446/500 [02:32<00:19,	2.78it/s]

Power Factorization: 89%	447/500 [02:33<00:18,	2.83it/s]
Power Factorization: 90%	448/500 [02:33<00:17,	2.97it/s]
Power Factorization: 90%	449/500 [02:33<00:16,	3.15it/s]
Power Factorization: 90%	450/500 [02:33<00:16,	3.08it/s]
Power Factorization: 90%	451/500 [02:34<00:15,	3.08it/s]
Power Factorization: 90%	452/500 [02:34<00:14,	3.23it/s]
Power Factorization: 91%	453/500 [02:34<00:14,	3.20it/s]
Power Factorization: 91%	454/500 [02:35<00:14,	3.26it/s]
Power Factorization: 91%	455/500 [02:35<00:14,	3.06it/s]
Power Factorization: 91%	456/500 [02:35<00:14,	2.97it/s]
Power Factorization: 91%	457/500 [02:36<00:13,	3.18it/s]
Power Factorization: 92%	458/500 [02:36<00:13,	3.03it/s]
Power Factorization: 92%	459/500 [02:36<00:13,	2.99it/s]
Power Factorization: 92%	460/500 [02:37<00:13,	2.95it/s]
Power Factorization: 92%	461/500 [02:37<00:13,	2.87it/s]
Power Factorization: 92%	462/500 [02:37<00:12,	2.96it/s]
Power Factorization: 93%	463/500 [02:38<00:12,	3.05it/s]
Power Factorization: 93%	464/500 [02:38<00:12,	2.97it/s]
Power Factorization: 93%	465/500 [02:39<00:13,	2.51it/s]
Power Factorization: 93%	466/500 [02:39<00:12,	2.74it/s]
Power Factorization: 93%	467/500 [02:39<00:11,	2.78it/s]
Power Factorization: 94%	468/500 [02:39<00:10,	3.05it/s]
Power Factorization: 94%	469/500 [02:40<00:09,	3.19it/s]
Power Factorization: 94%	470/500 [02:40<00:08,	3.35it/s]

Power Factorization: 94%	471/500 [02:40<00:08, 3.34it/s]
Power Factorization: 94%	472/500 [02:41<00:08, 3.35it/s]
Power Factorization: 95%	473/500 [02:41<00:08, 3.03it/s]
Power Factorization: 95%	474/500 [02:41<00:08, 3.16it/s]
Power Factorization: 95%	475/500 [02:42<00:07, 3.42it/s]
Power Factorization: 95%	476/500 [02:42<00:07, 3.32it/s]
Power Factorization: 95%	477/500 [02:42<00:07, 3.22it/s]
Power Factorization: 96%	478/500 [02:42<00:06, 3.29it/s]
Power Factorization: 96%	479/500 [02:43<00:06, 3.34it/s]
Power Factorization: 96%	480/500 [02:43<00:05, 3.36it/s]
Power Factorization: 96%	481/500 [02:43<00:06, 3.02it/s]
Power Factorization: 96%	482/500 [02:44<00:05, 3.07it/s]
Power Factorization: 97%	483/500 [02:44<00:05, 3.17it/s]
Power Factorization: 97%	484/500 [02:45<00:06, 2.63it/s]
Power Factorization: 97%	485/500 [02:45<00:05, 2.69it/s]
Power Factorization: 97%	486/500 [02:46<00:06, 2.28it/s]
Power Factorization: 97%	487/500 [02:46<00:05, 2.49it/s]
Power Factorization: 98%	488/500 [02:46<00:04, 2.62it/s]
Power Factorization: 98%	489/500 [02:46<00:03, 2.84it/s]
Power Factorization: 98%	490/500 [02:47<00:03, 2.89it/s]
Power Factorization: 98%	491/500 [02:47<00:02, 3.04it/s]
Power Factorization: 98%	492/500 [02:47<00:02, 3.09it/s]
Power Factorization: 99%	493/500 [02:48<00:02, 3.04it/s]
Power Factorization: 99%	494/500 [02:48<00:01, 3.09it/s]

Power Factorization: 99%	495/500 [02:48<00:01, 3.30it/s]
Power Factorization: 99%	496/500 [02:49<00:01, 3.33it/s]
Power Factorization: 99%	497/500 [02:49<00:00, 3.48it/s]
Power Factorization: 100%	498/500 [02:49<00:00, 3.25it/s]
Power Factorization: 100%	499/500 [02:50<00:00, 3.25it/s]
Power Factorization: 100%	500/500 [02:50<00:00, 2.93it/s]
Cross Validation: 80%	4/5 [11:01<02:46, 166.06s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:20, 3.55it/s]
Power Factorization: 0%	2/500 [00:00<02:39, 3.13it/s]
Power Factorization: 1%	3/500 [00:00<02:37, 3.15it/s]
Power Factorization: 1%	4/500 [00:01<02:40, 3.08it/s]
Power Factorization: 1%	5/500 [00:01<02:30, 3.29it/s]
Power Factorization: 1%	6/500 [00:01<02:21, 3.50it/s]
Power Factorization: 1%	7/500 [00:02<02:14, 3.67it/s]
Power Factorization: 2%	8/500 [00:02<02:13, 3.69it/s]
Power Factorization: 2%	9/500 [00:02<02:18, 3.54it/s]
Power Factorization: 2%	10/500 [00:02<02:17, 3.57it/s]
Power Factorization: 2%	11/500 [00:03<02:16, 3.57it/s]
Power Factorization: 2%	12/500 [00:03<02:14, 3.63it/s]
Power Factorization: 3%	13/500 [00:03<02:20, 3.47it/s]
Power Factorization: 3%	14/500 [00:04<02:24, 3.37it/s]
Power Factorization: 3%	15/500 [00:04<02:24, 3.36it/s]
Power Factorization: 3%	16/500 [00:04<02:21, 3.43it/s]

Power Factorization:	3%	17/500	[00:04<02:21,	3.41it/s]
Power Factorization:	4%	18/500	[00:05<02:27,	3.26it/s]
Power Factorization:	4%	19/500	[00:05<02:33,	3.13it/s]
Power Factorization:	4%	20/500	[00:05<02:30,	3.19it/s]
Power Factorization:	4%	21/500	[00:06<02:28,	3.23it/s]
Power Factorization:	4%	22/500	[00:06<02:21,	3.38it/s]
Power Factorization:	5%	23/500	[00:07<02:50,	2.79it/s]
Power Factorization:	5%	24/500	[00:07<03:55,	2.02it/s]
Power Factorization:	5%	25/500	[00:08<03:34,	2.22it/s]
Power Factorization:	5%	26/500	[00:08<03:10,	2.49it/s]
Power Factorization:	5%	27/500	[00:08<02:48,	2.80it/s]
Power Factorization:	6%	28/500	[00:09<02:42,	2.91it/s]
Power Factorization:	6%	29/500	[00:09<02:47,	2.80it/s]
Power Factorization:	6%	30/500	[00:09<02:48,	2.78it/s]
Power Factorization:	6%	31/500	[00:10<02:50,	2.75it/s]
Power Factorization:	6%	32/500	[00:10<02:47,	2.79it/s]
Power Factorization:	7%	33/500	[00:10<02:37,	2.96it/s]
Power Factorization:	7%	34/500	[00:11<02:37,	2.96it/s]
Power Factorization:	7%	35/500	[00:11<02:34,	3.02it/s]
Power Factorization:	7%	36/500	[00:11<02:26,	3.16it/s]
Power Factorization:	7%	37/500	[00:12<02:37,	2.94it/s]
Power Factorization:	8%	38/500	[00:12<02:32,	3.03it/s]
Power Factorization:	8%	39/500	[00:12<02:33,	3.01it/s]
Power Factorization:	8%	40/500	[00:13<02:30,	3.06it/s]

Power Factorization:	8%	41/500 [00:13<02:21,	3.24it/s]
Power Factorization:	8%	42/500 [00:13<02:18,	3.32it/s]
Power Factorization:	9%	43/500 [00:13<02:14,	3.39it/s]
Power Factorization:	9%	44/500 [00:14<02:08,	3.54it/s]
Power Factorization:	9%	45/500 [00:14<02:13,	3.42it/s]
Power Factorization:	9%	46/500 [00:14<02:16,	3.31it/s]
Power Factorization:	9%	47/500 [00:15<02:12,	3.43it/s]
Power Factorization:	10%	48/500 [00:15<02:48,	2.68it/s]
Power Factorization:	10%	49/500 [00:15<02:32,	2.95it/s]
Power Factorization:	10%	50/500 [00:16<02:27,	3.06it/s]
Power Factorization:	10%	51/500 [00:16<02:21,	3.18it/s]
Power Factorization:	10%	52/500 [00:16<02:26,	3.06it/s]
Power Factorization:	11%	53/500 [00:17<02:30,	2.97it/s]
Power Factorization:	11%	54/500 [00:17<02:35,	2.86it/s]
Power Factorization:	11%	55/500 [00:17<02:32,	2.91it/s]
Power Factorization:	11%	56/500 [00:18<02:33,	2.89it/s]
Power Factorization:	11%	57/500 [00:18<02:39,	2.77it/s]
Power Factorization:	12%	58/500 [00:18<02:33,	2.87it/s]
Power Factorization:	12%	59/500 [00:19<02:22,	3.09it/s]
Power Factorization:	12%	60/500 [00:19<02:21,	3.11it/s]
Power Factorization:	12%	61/500 [00:19<02:14,	3.27it/s]
Power Factorization:	12%	62/500 [00:20<02:09,	3.37it/s]
Power Factorization:	13%	63/500 [00:20<02:02,	3.57it/s]
Power Factorization:	13%	64/500 [00:20<02:01,	3.60it/s]

Power Factorization: 13%	65/500 [00:20<02:04, 3.48it/s]
Power Factorization: 13%	66/500 [00:21<02:00, 3.62it/s]
Power Factorization: 13%	67/500 [00:21<01:56, 3.70it/s]
Power Factorization: 14%	68/500 [00:21<02:11, 3.29it/s]
Power Factorization: 14%	69/500 [00:22<02:13, 3.23it/s]
Power Factorization: 14%	70/500 [00:22<02:07, 3.38it/s]
Power Factorization: 14%	71/500 [00:22<02:06, 3.39it/s]
Power Factorization: 14%	72/500 [00:22<02:00, 3.56it/s]
Power Factorization: 15%	73/500 [00:23<01:59, 3.58it/s]
Power Factorization: 15%	74/500 [00:23<01:54, 3.71it/s]
Power Factorization: 15%	75/500 [00:23<01:57, 3.61it/s]
Power Factorization: 15%	76/500 [00:24<02:06, 3.36it/s]
Power Factorization: 15%	77/500 [00:24<02:06, 3.35it/s]
Power Factorization: 16%	78/500 [00:24<02:10, 3.25it/s]
Power Factorization: 16%	79/500 [00:24<02:04, 3.39it/s]
Power Factorization: 16%	80/500 [00:25<02:09, 3.25it/s]
Power Factorization: 16%	81/500 [00:25<02:07, 3.30it/s]
Power Factorization: 16%	82/500 [00:25<02:11, 3.19it/s]
Power Factorization: 17%	83/500 [00:26<02:37, 2.65it/s]
Power Factorization: 17%	84/500 [00:26<02:40, 2.59it/s]
Power Factorization: 17%	85/500 [00:27<02:32, 2.72it/s]
Power Factorization: 17%	86/500 [00:27<02:24, 2.86it/s]
Power Factorization: 17%	87/500 [00:27<02:16, 3.02it/s]
Power Factorization: 18%	88/500 [00:28<02:09, 3.18it/s]

Power Factorization: 18%	89/500 [00:28<02:09, 3.19it/s]
Power Factorization: 18%	90/500 [00:28<02:14, 3.04it/s]
Power Factorization: 18%	91/500 [00:29<02:27, 2.78it/s]
Power Factorization: 18%	92/500 [00:29<02:21, 2.89it/s]
Power Factorization: 19%	93/500 [00:29<02:14, 3.02it/s]
Power Factorization: 19%	94/500 [00:30<02:14, 3.03it/s]
Power Factorization: 19%	95/500 [00:30<02:19, 2.90it/s]
Power Factorization: 19%	96/500 [00:30<02:16, 2.97it/s]
Power Factorization: 19%	97/500 [00:31<02:12, 3.04it/s]
Power Factorization: 20%	98/500 [00:31<02:05, 3.21it/s]
Power Factorization: 20%	99/500 [00:31<01:59, 3.36it/s]
Power Factorization: 20%	100/500 [00:31<01:54, 3.48it/s]
Power Factorization: 20%	101/500 [00:32<01:51, 3.58it/s]
Power Factorization: 20%	102/500 [00:32<01:50, 3.60it/s]
Power Factorization: 21%	103/500 [00:32<01:53, 3.51it/s]
Power Factorization: 21%	104/500 [00:33<01:58, 3.34it/s]
Power Factorization: 21%	105/500 [00:33<01:54, 3.44it/s]
Power Factorization: 21%	106/500 [00:33<02:00, 3.27it/s]
Power Factorization: 21%	107/500 [00:33<01:55, 3.40it/s]
Power Factorization: 22%	108/500 [00:34<01:53, 3.46it/s]
Power Factorization: 22%	109/500 [00:34<01:57, 3.32it/s]
Power Factorization: 22%	110/500 [00:34<01:55, 3.37it/s]
Power Factorization: 22%	111/500 [00:35<01:53, 3.41it/s]
Power Factorization: 22%	112/500 [00:35<01:47, 3.62it/s]

Power Factorization: 23%	113/500 [00:35<01:48, 3.57it/s]
Power Factorization: 23%	114/500 [00:36<02:03, 3.12it/s]
Power Factorization: 23%	115/500 [00:36<02:13, 2.88it/s]
Power Factorization: 23%	116/500 [00:36<02:11, 2.93it/s]
Power Factorization: 23%	117/500 [00:37<02:06, 3.04it/s]
Power Factorization: 24%	118/500 [00:37<02:11, 2.90it/s]
Power Factorization: 24%	119/500 [00:37<02:09, 2.94it/s]
Power Factorization: 24%	120/500 [00:38<01:59, 3.17it/s]
Power Factorization: 24%	121/500 [00:38<01:50, 3.42it/s]
Power Factorization: 24%	122/500 [00:38<01:46, 3.54it/s]
Power Factorization: 25%	123/500 [00:38<01:43, 3.65it/s]
Power Factorization: 25%	124/500 [00:39<01:38, 3.83it/s]
Power Factorization: 25%	125/500 [00:39<01:39, 3.78it/s]
Power Factorization: 25%	126/500 [00:39<01:41, 3.68it/s]
Power Factorization: 25%	127/500 [00:39<01:43, 3.61it/s]
Power Factorization: 26%	128/500 [00:40<01:46, 3.49it/s]
Power Factorization: 26%	129/500 [00:40<01:51, 3.32it/s]
Power Factorization: 26%	130/500 [00:40<01:48, 3.40it/s]
Power Factorization: 26%	131/500 [00:41<02:03, 3.00it/s]
Power Factorization: 26%	132/500 [00:41<02:02, 3.01it/s]
Power Factorization: 27%	133/500 [00:41<01:50, 3.31it/s]
Power Factorization: 27%	134/500 [00:42<02:09, 2.83it/s]
Power Factorization: 27%	135/500 [00:42<02:30, 2.43it/s]
Power Factorization: 27%	136/500 [00:43<02:15, 2.68it/s]

Power Factorization: 27%	137/500 [00:43<02:04, 2.93it/s]
Power Factorization: 28%	138/500 [00:43<02:02, 2.95it/s]
Power Factorization: 28%	139/500 [00:44<02:00, 3.00it/s]
Power Factorization: 28%	140/500 [00:44<02:29, 2.41it/s]
Power Factorization: 28%	141/500 [00:45<02:24, 2.48it/s]
Power Factorization: 28%	142/500 [00:45<02:21, 2.53it/s]
Power Factorization: 29%	143/500 [00:45<02:09, 2.77it/s]
Power Factorization: 29%	144/500 [00:46<02:08, 2.76it/s]
Power Factorization: 29%	145/500 [00:46<01:58, 3.00it/s]
Power Factorization: 29%	146/500 [00:46<01:52, 3.15it/s]
Power Factorization: 29%	147/500 [00:46<01:52, 3.14it/s]
Power Factorization: 30%	148/500 [00:47<01:56, 3.03it/s]
Power Factorization: 30%	149/500 [00:47<02:26, 2.40it/s]
Power Factorization: 30%	150/500 [00:48<02:16, 2.57it/s]
Power Factorization: 30%	151/500 [00:48<02:05, 2.79it/s]
Power Factorization: 30%	152/500 [00:48<02:02, 2.84it/s]
Power Factorization: 31%	153/500 [00:49<01:53, 3.06it/s]
Power Factorization: 31%	154/500 [00:49<01:55, 2.99it/s]
Power Factorization: 31%	155/500 [00:50<02:18, 2.50it/s]
Power Factorization: 31%	156/500 [00:50<02:12, 2.60it/s]
Power Factorization: 31%	157/500 [00:50<02:03, 2.78it/s]
Power Factorization: 32%	158/500 [00:51<02:00, 2.84it/s]
Power Factorization: 32%	159/500 [00:51<02:05, 2.73it/s]
Power Factorization: 32%	160/500 [00:51<01:52, 3.01it/s]

Power Factorization: 32%	161/500 [00:52<02:06, 2.68it/s]
Power Factorization: 32%	162/500 [00:52<02:05, 2.68it/s]
Power Factorization: 33%	163/500 [00:53<02:45, 2.04it/s]
Power Factorization: 33%	164/500 [00:53<02:34, 2.17it/s]
Power Factorization: 33%	165/500 [00:54<02:27, 2.27it/s]
Power Factorization: 33%	166/500 [00:54<02:14, 2.48it/s]
Power Factorization: 33%	167/500 [00:54<02:07, 2.62it/s]
Power Factorization: 34%	168/500 [00:55<02:00, 2.76it/s]
Power Factorization: 34%	169/500 [00:55<01:59, 2.78it/s]
Power Factorization: 34%	170/500 [00:55<01:53, 2.91it/s]
Power Factorization: 34%	171/500 [00:56<01:51, 2.95it/s]
Power Factorization: 34%	172/500 [00:56<01:57, 2.79it/s]
Power Factorization: 35%	173/500 [00:56<02:07, 2.55it/s]
Power Factorization: 35%	174/500 [00:57<02:04, 2.63it/s]
Power Factorization: 35%	175/500 [00:57<01:59, 2.71it/s]
Power Factorization: 35%	176/500 [00:58<02:10, 2.49it/s]
Power Factorization: 35%	177/500 [00:58<02:08, 2.51it/s]
Power Factorization: 36%	178/500 [00:58<02:00, 2.67it/s]
Power Factorization: 36%	179/500 [00:59<02:06, 2.54it/s]
Power Factorization: 36%	180/500 [00:59<02:12, 2.42it/s]
Power Factorization: 36%	181/500 [01:00<02:07, 2.50it/s]
Power Factorization: 36%	182/500 [01:00<01:53, 2.80it/s]
Power Factorization: 37%	183/500 [01:00<01:43, 3.06it/s]
Power Factorization: 37%	184/500 [01:00<01:46, 2.97it/s]

Power Factorization: 37%	185/500 [01:01<01:43, 3.03it/s]
Power Factorization: 37%	186/500 [01:01<01:39, 3.16it/s]
Power Factorization: 37%	187/500 [01:01<01:35, 3.29it/s]
Power Factorization: 38%	188/500 [01:02<01:33, 3.32it/s]
Power Factorization: 38%	189/500 [01:02<01:28, 3.52it/s]
Power Factorization: 38%	190/500 [01:02<01:34, 3.28it/s]
Power Factorization: 38%	191/500 [01:03<01:52, 2.76it/s]
Power Factorization: 38%	192/500 [01:03<01:41, 3.03it/s]
Power Factorization: 39%	193/500 [01:03<01:51, 2.76it/s]
Power Factorization: 39%	194/500 [01:04<01:42, 2.97it/s]
Power Factorization: 39%	195/500 [01:04<01:39, 3.07it/s]
Power Factorization: 39%	196/500 [01:05<02:00, 2.53it/s]
Power Factorization: 39%	197/500 [01:05<01:49, 2.78it/s]
Power Factorization: 40%	198/500 [01:05<01:52, 2.68it/s]
Power Factorization: 40%	199/500 [01:05<01:38, 3.04it/s]
Power Factorization: 40%	200/500 [01:06<01:37, 3.09it/s]
Power Factorization: 40%	201/500 [01:06<01:33, 3.20it/s]
Power Factorization: 40%	202/500 [01:06<01:30, 3.29it/s]
Power Factorization: 41%	203/500 [01:07<01:25, 3.46it/s]
Power Factorization: 41%	204/500 [01:07<01:27, 3.40it/s]
Power Factorization: 41%	205/500 [01:07<01:25, 3.45it/s]
Power Factorization: 41%	206/500 [01:07<01:24, 3.46it/s]
Power Factorization: 41%	207/500 [01:08<01:32, 3.17it/s]
Power Factorization: 42%	208/500 [01:08<01:32, 3.15it/s]

Power Factorization: 42%	209/500 [01:08<01:30, 3.21it/s]
Power Factorization: 42%	210/500 [01:09<01:33, 3.11it/s]
Power Factorization: 42%	211/500 [01:09<01:54, 2.53it/s]
Power Factorization: 42%	212/500 [01:10<01:46, 2.71it/s]
Power Factorization: 43%	213/500 [01:10<01:41, 2.81it/s]
Power Factorization: 43%	214/500 [01:10<01:31, 3.13it/s]
Power Factorization: 43%	215/500 [01:11<01:30, 3.16it/s]
Power Factorization: 43%	216/500 [01:11<01:23, 3.42it/s]
Power Factorization: 43%	217/500 [01:11<01:23, 3.38it/s]
Power Factorization: 44%	218/500 [01:11<01:21, 3.45it/s]
Power Factorization: 44%	219/500 [01:12<01:30, 3.09it/s]
Power Factorization: 44%	220/500 [01:12<01:47, 2.60it/s]
Power Factorization: 44%	221/500 [01:13<01:43, 2.71it/s]
Power Factorization: 44%	222/500 [01:13<01:37, 2.84it/s]
Power Factorization: 45%	223/500 [01:13<01:31, 3.02it/s]
Power Factorization: 45%	224/500 [01:13<01:24, 3.27it/s]
Power Factorization: 45%	225/500 [01:14<01:22, 3.32it/s]
Power Factorization: 45%	226/500 [01:14<01:17, 3.53it/s]
Power Factorization: 45%	227/500 [01:14<01:19, 3.43it/s]
Power Factorization: 46%	228/500 [01:15<01:26, 3.14it/s]
Power Factorization: 46%	229/500 [01:15<01:21, 3.32it/s]
Power Factorization: 46%	230/500 [01:15<01:19, 3.39it/s]
Power Factorization: 46%	231/500 [01:15<01:18, 3.44it/s]
Power Factorization: 46%	232/500 [01:16<01:15, 3.55it/s]

Power Factorization: 47%	233/500 [01:16<01:14, 3.58it/s]
Power Factorization: 47%	234/500 [01:16<01:29, 2.97it/s]
Power Factorization: 47%	235/500 [01:17<01:25, 3.12it/s]
Power Factorization: 47%	236/500 [01:17<01:20, 3.27it/s]
Power Factorization: 47%	237/500 [01:17<01:19, 3.29it/s]
Power Factorization: 48%	238/500 [01:18<01:19, 3.29it/s]
Power Factorization: 48%	239/500 [01:18<01:17, 3.38it/s]
Power Factorization: 48%	240/500 [01:18<01:16, 3.41it/s]
Power Factorization: 48%	241/500 [01:19<01:16, 3.40it/s]
Power Factorization: 48%	242/500 [01:19<01:18, 3.27it/s]
Power Factorization: 49%	243/500 [01:19<01:20, 3.18it/s]
Power Factorization: 49%	244/500 [01:19<01:20, 3.20it/s]
Power Factorization: 49%	245/500 [01:20<01:23, 3.04it/s]
Power Factorization: 49%	246/500 [01:20<01:20, 3.16it/s]
Power Factorization: 49%	247/500 [01:20<01:17, 3.25it/s]
Power Factorization: 50%	248/500 [01:21<01:14, 3.38it/s]
Power Factorization: 50%	249/500 [01:21<01:11, 3.49it/s]
Power Factorization: 50%	250/500 [01:21<01:11, 3.50it/s]
Power Factorization: 50%	251/500 [01:21<01:06, 3.76it/s]
Power Factorization: 50%	252/500 [01:22<01:05, 3.76it/s]
Power Factorization: 51%	253/500 [01:22<01:08, 3.59it/s]
Power Factorization: 51%	254/500 [01:22<01:14, 3.28it/s]
Power Factorization: 51%	255/500 [01:23<01:10, 3.49it/s]
Power Factorization: 51%	256/500 [01:23<01:04, 3.75it/s]

Power Factorization: 51%	257/500 [01:23<01:02, 3.87it/s]
Power Factorization: 52%	258/500 [01:24<01:13, 3.29it/s]
Power Factorization: 52%	259/500 [01:24<01:14, 3.22it/s]
Power Factorization: 52%	260/500 [01:24<01:12, 3.30it/s]
Power Factorization: 52%	261/500 [01:24<01:10, 3.41it/s]
Power Factorization: 52%	262/500 [01:25<01:08, 3.47it/s]
Power Factorization: 53%	263/500 [01:25<01:03, 3.73it/s]
Power Factorization: 53%	264/500 [01:25<01:02, 3.80it/s]
Power Factorization: 53%	265/500 [01:25<01:02, 3.79it/s]
Power Factorization: 53%	266/500 [01:26<01:12, 3.21it/s]
Power Factorization: 53%	267/500 [01:26<01:11, 3.24it/s]
Power Factorization: 54%	268/500 [01:26<01:08, 3.39it/s]
Power Factorization: 54%	269/500 [01:27<01:06, 3.49it/s]
Power Factorization: 54%	270/500 [01:27<01:04, 3.56it/s]
Power Factorization: 54%	271/500 [01:27<01:07, 3.41it/s]
Power Factorization: 54%	272/500 [01:28<01:07, 3.40it/s]
Power Factorization: 55%	273/500 [01:28<01:04, 3.53it/s]
Power Factorization: 55%	274/500 [01:28<01:01, 3.67it/s]
Power Factorization: 55%	275/500 [01:28<01:01, 3.65it/s]
Power Factorization: 55%	276/500 [01:29<01:01, 3.66it/s]
Power Factorization: 55%	277/500 [01:29<01:07, 3.30it/s]
Power Factorization: 56%	278/500 [01:29<01:10, 3.14it/s]
Power Factorization: 56%	279/500 [01:30<01:07, 3.27it/s]
Power Factorization: 56%	280/500 [01:30<01:07, 3.26it/s]

Power Factorization: 56%	281/500 [01:30<01:05, 3.32it/s]
Power Factorization: 56%	282/500 [01:30<01:03, 3.45it/s]
Power Factorization: 57%	283/500 [01:31<00:58, 3.73it/s]
Power Factorization: 57%	284/500 [01:31<00:58, 3.68it/s]
Power Factorization: 57%	285/500 [01:31<00:55, 3.88it/s]
Power Factorization: 57%	286/500 [01:31<00:55, 3.84it/s]
Power Factorization: 57%	287/500 [01:32<00:56, 3.77it/s]
Power Factorization: 58%	288/500 [01:32<00:56, 3.77it/s]
Power Factorization: 58%	289/500 [01:32<00:54, 3.88it/s]
Power Factorization: 58%	290/500 [01:33<00:55, 3.81it/s]
Power Factorization: 58%	291/500 [01:33<00:55, 3.77it/s]
Power Factorization: 58%	292/500 [01:33<00:53, 3.91it/s]
Power Factorization: 59%	293/500 [01:33<00:52, 3.92it/s]
Power Factorization: 59%	294/500 [01:33<00:50, 4.11it/s]
Power Factorization: 59%	295/500 [01:34<00:53, 3.85it/s]
Power Factorization: 59%	296/500 [01:34<00:53, 3.79it/s]
Power Factorization: 59%	297/500 [01:34<00:55, 3.68it/s]
Power Factorization: 60%	298/500 [01:35<00:52, 3.88it/s]
Power Factorization: 60%	299/500 [01:35<00:53, 3.79it/s]
Power Factorization: 60%	300/500 [01:35<00:53, 3.71it/s]
Power Factorization: 60%	301/500 [01:35<00:52, 3.80it/s]
Power Factorization: 60%	302/500 [01:36<00:50, 3.92it/s]
Power Factorization: 61%	303/500 [01:36<00:52, 3.76it/s]
Power Factorization: 61%	304/500 [01:36<00:50, 3.92it/s]

Power Factorization: 61%	305/500 [01:36<00:51, 3.80it/s]
Power Factorization: 61%	306/500 [01:37<00:53, 3.65it/s]
Power Factorization: 61%	307/500 [01:37<00:55, 3.46it/s]
Power Factorization: 62%	308/500 [01:37<00:52, 3.66it/s]
Power Factorization: 62%	309/500 [01:38<00:52, 3.66it/s]
Power Factorization: 62%	310/500 [01:38<00:50, 3.73it/s]
Power Factorization: 62%	311/500 [01:38<00:51, 3.65it/s]
Power Factorization: 62%	312/500 [01:38<00:49, 3.83it/s]
Power Factorization: 63%	313/500 [01:39<00:48, 3.84it/s]
Power Factorization: 63%	314/500 [01:39<00:48, 3.87it/s]
Power Factorization: 63%	315/500 [01:39<00:46, 3.94it/s]
Power Factorization: 63%	316/500 [01:39<00:47, 3.88it/s]
Power Factorization: 63%	317/500 [01:40<00:51, 3.56it/s]
Power Factorization: 64%	318/500 [01:40<00:51, 3.54it/s]
Power Factorization: 64%	319/500 [01:40<00:52, 3.48it/s]
Power Factorization: 64%	320/500 [01:41<00:49, 3.67it/s]
Power Factorization: 64%	321/500 [01:41<00:49, 3.60it/s]
Power Factorization: 64%	322/500 [01:41<00:46, 3.79it/s]
Power Factorization: 65%	323/500 [01:41<00:44, 3.97it/s]
Power Factorization: 65%	324/500 [01:42<00:48, 3.63it/s]
Power Factorization: 65%	325/500 [01:42<00:54, 3.24it/s]
Power Factorization: 65%	326/500 [01:42<00:49, 3.49it/s]
Power Factorization: 65%	327/500 [01:42<00:48, 3.56it/s]
Power Factorization: 66%	328/500 [01:43<00:46, 3.72it/s]

Power Factorization: 66%	329/500 [01:43<00:43, 3.89it/s]
Power Factorization: 66%	330/500 [01:43<00:44, 3.81it/s]
Power Factorization: 66%	331/500 [01:44<00:54, 3.08it/s]
Power Factorization: 66%	332/500 [01:44<00:55, 3.01it/s]
Power Factorization: 67%	333/500 [01:44<00:53, 3.13it/s]
Power Factorization: 67%	334/500 [01:45<00:57, 2.91it/s]
Power Factorization: 67%	335/500 [01:45<00:51, 3.18it/s]
Power Factorization: 67%	336/500 [01:45<00:50, 3.24it/s]
Power Factorization: 67%	337/500 [01:46<00:50, 3.26it/s]
Power Factorization: 68%	338/500 [01:46<00:47, 3.43it/s]
Power Factorization: 68%	339/500 [01:46<00:47, 3.37it/s]
Power Factorization: 68%	340/500 [01:46<00:43, 3.64it/s]
Power Factorization: 68%	341/500 [01:47<00:43, 3.68it/s]
Power Factorization: 68%	342/500 [01:47<00:43, 3.66it/s]
Power Factorization: 69%	343/500 [01:47<00:42, 3.66it/s]
Power Factorization: 69%	344/500 [01:47<00:41, 3.76it/s]
Power Factorization: 69%	345/500 [01:48<00:41, 3.71it/s]
Power Factorization: 69%	346/500 [01:48<00:40, 3.79it/s]
Power Factorization: 69%	347/500 [01:48<00:40, 3.77it/s]
Power Factorization: 70%	348/500 [01:49<00:41, 3.66it/s]
Power Factorization: 70%	349/500 [01:49<00:40, 3.73it/s]
Power Factorization: 70%	350/500 [01:49<00:40, 3.69it/s]
Power Factorization: 70%	351/500 [01:49<00:38, 3.89it/s]
Power Factorization: 70%	352/500 [01:50<00:37, 3.97it/s]

Power Factorization: 71%	353/500 [01:50<00:37, 3.91it/s]
Power Factorization: 71%	354/500 [01:50<00:39, 3.69it/s]
Power Factorization: 71%	355/500 [01:50<00:39, 3.63it/s]
Power Factorization: 71%	356/500 [01:51<00:37, 3.80it/s]
Power Factorization: 71%	357/500 [01:51<00:36, 3.88it/s]
Power Factorization: 72%	358/500 [01:51<00:35, 4.05it/s]
Power Factorization: 72%	359/500 [01:51<00:35, 3.97it/s]
Power Factorization: 72%	360/500 [01:52<00:36, 3.85it/s]
Power Factorization: 72%	361/500 [01:52<00:34, 4.04it/s]
Power Factorization: 72%	362/500 [01:52<00:34, 4.04it/s]
Power Factorization: 73%	363/500 [01:52<00:34, 3.94it/s]
Power Factorization: 73%	364/500 [01:53<00:33, 4.04it/s]
Power Factorization: 73%	365/500 [01:53<00:33, 3.98it/s]
Power Factorization: 73%	366/500 [01:53<00:34, 3.90it/s]
Power Factorization: 73%	367/500 [01:53<00:34, 3.90it/s]
Power Factorization: 74%	368/500 [01:54<00:33, 3.98it/s]
Power Factorization: 74%	369/500 [01:54<00:32, 4.00it/s]
Power Factorization: 74%	370/500 [01:54<00:32, 4.00it/s]
Power Factorization: 74%	371/500 [01:54<00:33, 3.85it/s]
Power Factorization: 74%	372/500 [01:55<00:32, 4.00it/s]
Power Factorization: 75%	373/500 [01:55<00:33, 3.82it/s]
Power Factorization: 75%	374/500 [01:55<00:34, 3.60it/s]
Power Factorization: 75%	375/500 [01:56<00:36, 3.43it/s]
Power Factorization: 75%	376/500 [01:56<00:36, 3.42it/s]

Power Factorization: 75%	377/500 [01:56<00:37, 3.24it/s]
Power Factorization: 76%	378/500 [01:57<00:42, 2.89it/s]
Power Factorization: 76%	379/500 [01:57<00:38, 3.13it/s]
Power Factorization: 76%	380/500 [01:57<00:37, 3.18it/s]
Power Factorization: 76%	381/500 [01:57<00:36, 3.26it/s]
Power Factorization: 76%	382/500 [01:58<00:35, 3.33it/s]
Power Factorization: 77%	383/500 [01:58<00:33, 3.46it/s]
Power Factorization: 77%	384/500 [01:58<00:33, 3.51it/s]
Power Factorization: 77%	385/500 [01:59<00:33, 3.45it/s]
Power Factorization: 77%	386/500 [01:59<00:33, 3.36it/s]
Power Factorization: 77%	387/500 [01:59<00:35, 3.18it/s]
Power Factorization: 78%	388/500 [02:00<00:34, 3.28it/s]
Power Factorization: 78%	389/500 [02:00<00:36, 3.04it/s]
Power Factorization: 78%	390/500 [02:00<00:34, 3.16it/s]
Power Factorization: 78%	391/500 [02:00<00:33, 3.23it/s]
Power Factorization: 78%	392/500 [02:01<00:32, 3.35it/s]
Power Factorization: 79%	393/500 [02:01<00:33, 3.16it/s]
Power Factorization: 79%	394/500 [02:01<00:32, 3.30it/s]
Power Factorization: 79%	395/500 [02:02<00:32, 3.25it/s]
Power Factorization: 79%	396/500 [02:02<00:32, 3.21it/s]
Power Factorization: 79%	397/500 [02:02<00:34, 3.02it/s]
Power Factorization: 80%	398/500 [02:03<00:32, 3.16it/s]
Power Factorization: 80%	399/500 [02:03<00:30, 3.33it/s]
Power Factorization: 80%	400/500 [02:03<00:30, 3.26it/s]

Power Factorization: 80%	401/500 [02:04<00:29, 3.41it/s]
Power Factorization: 80%	402/500 [02:04<00:27, 3.55it/s]
Power Factorization: 81%	403/500 [02:04<00:28, 3.44it/s]
Power Factorization: 81%	404/500 [02:04<00:26, 3.65it/s]
Power Factorization: 81%	405/500 [02:05<00:25, 3.77it/s]
Power Factorization: 81%	406/500 [02:05<00:25, 3.73it/s]
Power Factorization: 81%	407/500 [02:05<00:24, 3.74it/s]
Power Factorization: 82%	408/500 [02:05<00:24, 3.83it/s]
Power Factorization: 82%	409/500 [02:06<00:23, 3.94it/s]
Power Factorization: 82%	410/500 [02:06<00:22, 3.97it/s]
Power Factorization: 82%	411/500 [02:06<00:23, 3.76it/s]
Power Factorization: 82%	412/500 [02:06<00:22, 3.92it/s]
Power Factorization: 83%	413/500 [02:07<00:22, 3.82it/s]
Power Factorization: 83%	414/500 [02:07<00:23, 3.61it/s]
Power Factorization: 83%	415/500 [02:07<00:22, 3.86it/s]
Power Factorization: 83%	416/500 [02:07<00:21, 3.82it/s]
Power Factorization: 83%	417/500 [02:08<00:20, 4.10it/s]
Power Factorization: 84%	418/500 [02:08<00:19, 4.18it/s]
Power Factorization: 84%	419/500 [02:08<00:20, 3.97it/s]
Power Factorization: 84%	420/500 [02:08<00:20, 3.95it/s]
Power Factorization: 84%	421/500 [02:09<00:21, 3.76it/s]
Power Factorization: 84%	422/500 [02:09<00:19, 3.91it/s]
Power Factorization: 85%	423/500 [02:09<00:19, 3.92it/s]
Power Factorization: 85%	424/500 [02:09<00:19, 3.99it/s]

Power Factorization: 85%	425/500 [02:10<00:18,	4.03it/s]
Power Factorization: 85%	426/500 [02:10<00:19,	3.87it/s]
Power Factorization: 85%	427/500 [02:10<00:18,	3.95it/s]
Power Factorization: 86%	428/500 [02:10<00:18,	3.95it/s]
Power Factorization: 86%	429/500 [02:11<00:17,	3.96it/s]
Power Factorization: 86%	430/500 [02:11<00:18,	3.72it/s]
Power Factorization: 86%	431/500 [02:11<00:21,	3.18it/s]
Power Factorization: 86%	432/500 [02:12<00:21,	3.22it/s]
Power Factorization: 87%	433/500 [02:12<00:20,	3.26it/s]
Power Factorization: 87%	434/500 [02:12<00:19,	3.39it/s]
Power Factorization: 87%	435/500 [02:13<00:18,	3.56it/s]
Power Factorization: 87%	436/500 [02:13<00:16,	3.77it/s]
Power Factorization: 87%	437/500 [02:13<00:16,	3.75it/s]
Power Factorization: 88%	438/500 [02:13<00:17,	3.57it/s]
Power Factorization: 88%	439/500 [02:14<00:17,	3.50it/s]
Power Factorization: 88%	440/500 [02:14<00:16,	3.66it/s]
Power Factorization: 88%	441/500 [02:14<00:16,	3.67it/s]
Power Factorization: 88%	442/500 [02:15<00:16,	3.50it/s]
Power Factorization: 89%	443/500 [02:15<00:15,	3.61it/s]
Power Factorization: 89%	444/500 [02:15<00:15,	3.68it/s]
Power Factorization: 89%	445/500 [02:15<00:15,	3.62it/s]
Power Factorization: 89%	446/500 [02:16<00:13,	3.86it/s]
Power Factorization: 89%	447/500 [02:16<00:14,	3.66it/s]
Power Factorization: 90%	448/500 [02:16<00:13,	3.79it/s]

Power Factorization: 90%	449/500 [02:16<00:14,	3.62it/s]
Power Factorization: 90%	450/500 [02:17<00:13,	3.75it/s]
Power Factorization: 90%	451/500 [02:17<00:12,	3.80it/s]
Power Factorization: 90%	452/500 [02:17<00:12,	3.72it/s]
Power Factorization: 91%	453/500 [02:17<00:13,	3.52it/s]
Power Factorization: 91%	454/500 [02:18<00:12,	3.65it/s]
Power Factorization: 91%	455/500 [02:18<00:14,	3.15it/s]
Power Factorization: 91%	456/500 [02:19<00:14,	2.93it/s]
Power Factorization: 91%	457/500 [02:19<00:13,	3.11it/s]
Power Factorization: 92%	458/500 [02:19<00:12,	3.36it/s]
Power Factorization: 92%	459/500 [02:19<00:11,	3.64it/s]
Power Factorization: 92%	460/500 [02:20<00:10,	3.70it/s]
Power Factorization: 92%	461/500 [02:20<00:10,	3.80it/s]
Power Factorization: 92%	462/500 [02:20<00:10,	3.73it/s]
Power Factorization: 93%	463/500 [02:20<00:09,	3.77it/s]
Power Factorization: 93%	464/500 [02:21<00:09,	3.73it/s]
Power Factorization: 93%	465/500 [02:21<00:09,	3.61it/s]
Power Factorization: 93%	466/500 [02:21<00:09,	3.73it/s]
Power Factorization: 93%	467/500 [02:21<00:08,	3.87it/s]
Power Factorization: 94%	468/500 [02:22<00:08,	3.77it/s]
Power Factorization: 94%	469/500 [02:22<00:08,	3.53it/s]
Power Factorization: 94%	470/500 [02:22<00:08,	3.64it/s]
Power Factorization: 94%	471/500 [02:22<00:07,	3.85it/s]
Power Factorization: 94%	472/500 [02:23<00:06,	4.08it/s]

Power Factorization: 95%	473/500 [02:23<00:07, 3.76it/s]
Power Factorization: 95%	474/500 [02:23<00:06, 3.96it/s]
Power Factorization: 95%	475/500 [02:23<00:06, 3.86it/s]
Power Factorization: 95%	476/500 [02:24<00:06, 3.89it/s]
Power Factorization: 95%	477/500 [02:24<00:05, 3.83it/s]
Power Factorization: 96%	478/500 [02:24<00:06, 3.64it/s]
Power Factorization: 96%	479/500 [02:25<00:05, 3.74it/s]
Power Factorization: 96%	480/500 [02:25<00:05, 3.76it/s]
Power Factorization: 96%	481/500 [02:25<00:05, 3.75it/s]
Power Factorization: 96%	482/500 [02:25<00:04, 3.97it/s]
Power Factorization: 97%	483/500 [02:26<00:04, 3.88it/s]
Power Factorization: 97%	484/500 [02:26<00:03, 4.03it/s]
Power Factorization: 97%	485/500 [02:26<00:03, 3.92it/s]
Power Factorization: 97%	486/500 [02:26<00:03, 3.86it/s]
Power Factorization: 97%	487/500 [02:27<00:03, 3.79it/s]
Power Factorization: 98%	488/500 [02:27<00:02, 4.06it/s]
Power Factorization: 98%	489/500 [02:27<00:02, 3.94it/s]
Power Factorization: 98%	490/500 [02:27<00:02, 3.69it/s]
Power Factorization: 98%	491/500 [02:28<00:02, 3.85it/s]
Power Factorization: 98%	492/500 [02:28<00:02, 3.64it/s]
Power Factorization: 99%	493/500 [02:28<00:01, 3.69it/s]
Power Factorization: 99%	494/500 [02:29<00:01, 3.61it/s]
Power Factorization: 99%	495/500 [02:29<00:01, 3.81it/s]
Power Factorization: 99%	496/500 [02:29<00:01, 3.71it/s]

Power Factorization: 99%| | 497/500 [02:29<00:00, 3.80it/s]

Power Factorization: 100%| | 498/500 [02:30<00:00, 3.62it/s]

Power Factorization: 100%| | 499/500 [02:30<00:00, 3.47it/s]

Power Factorization: 100%| | 500/500 [02:30<00:00, 3.32it/s]

Cross Validation: 100%| | 5/5 [13:32<00:00, 162.53s/it]

Grid Search: 38%| | 6/16 [45:23<1:30:39, 543.99s/it]

Average RMS for k=10, lambda=1: 3.1428, Execution time: 162.4728s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:01, 4.12it/s]

Power Factorization: 0%| | 2/500 [00:00<02:12, 3.75it/s]

Power Factorization: 1%| | 3/500 [00:00<02:09, 3.85it/s]

Power Factorization: 1%| | 4/500 [00:01<02:07, 3.88it/s]

Power Factorization: 1%| | 5/500 [00:01<02:01, 4.06it/s]

Power Factorization: 1%| | 6/500 [00:01<02:05, 3.92it/s]

Power Factorization: 1%| | 7/500 [00:01<02:01, 4.04it/s]

Power Factorization: 2%| | 8/500 [00:01<01:55, 4.26it/s]

Power Factorization: 2%| | 9/500 [00:02<01:57, 4.19it/s]

Power Factorization: 2%| | 10/500 [00:02<02:03, 3.97it/s]

Power Factorization: 2%| | 11/500 [00:02<02:12, 3.69it/s]

Power Factorization: 2%| | 12/500 [00:03<02:12, 3.67it/s]

Power Factorization: 3%| | 13/500 [00:03<02:11, 3.69it/s]

Power Factorization: 3%| | 14/500 [00:03<02:04, 3.92it/s]

Power Factorization: 3%| | 15/500 [00:03<02:03, 3.92it/s]

Power Factorization: 3%| | 16/500 [00:04<02:08, 3.76it/s]

Power Factorization:	3%	17/500	[00:04<02:10,	3.70it/s]
Power Factorization:	4%	18/500	[00:04<02:11,	3.66it/s]
Power Factorization:	4%	19/500	[00:04<02:06,	3.79it/s]
Power Factorization:	4%	20/500	[00:05<02:00,	3.99it/s]
Power Factorization:	4%	21/500	[00:05<02:04,	3.83it/s]
Power Factorization:	4%	22/500	[00:05<02:04,	3.84it/s]
Power Factorization:	5%	23/500	[00:05<02:01,	3.92it/s]
Power Factorization:	5%	24/500	[00:06<02:25,	3.27it/s]
Power Factorization:	5%	25/500	[00:06<02:16,	3.47it/s]
Power Factorization:	5%	26/500	[00:06<02:15,	3.50it/s]
Power Factorization:	5%	27/500	[00:07<02:09,	3.65it/s]
Power Factorization:	6%	28/500	[00:07<02:10,	3.60it/s]
Power Factorization:	6%	29/500	[00:07<02:12,	3.56it/s]
Power Factorization:	6%	30/500	[00:08<02:46,	2.82it/s]
Power Factorization:	6%	31/500	[00:08<02:39,	2.95it/s]
Power Factorization:	6%	32/500	[00:08<02:26,	3.19it/s]
Power Factorization:	7%	33/500	[00:09<02:20,	3.32it/s]
Power Factorization:	7%	34/500	[00:09<02:15,	3.45it/s]
Power Factorization:	7%	35/500	[00:09<02:09,	3.59it/s]
Power Factorization:	7%	36/500	[00:09<02:06,	3.67it/s]
Power Factorization:	7%	37/500	[00:10<02:01,	3.80it/s]
Power Factorization:	8%	38/500	[00:10<02:01,	3.80it/s]
Power Factorization:	8%	39/500	[00:10<02:04,	3.69it/s]
Power Factorization:	8%	40/500	[00:10<02:07,	3.62it/s]

Power Factorization:	8%	41/500	[00:11<02:10,	3.51it/s]
Power Factorization:	8%	42/500	[00:11<02:04,	3.68it/s]
Power Factorization:	9%	43/500	[00:11<02:02,	3.74it/s]
Power Factorization:	9%	44/500	[00:12<02:05,	3.63it/s]
Power Factorization:	9%	45/500	[00:12<02:10,	3.48it/s]
Power Factorization:	9%	46/500	[00:12<02:03,	3.69it/s]
Power Factorization:	9%	47/500	[00:12<02:10,	3.48it/s]
Power Factorization:	10%	48/500	[00:13<02:12,	3.41it/s]
Power Factorization:	10%	49/500	[00:13<02:07,	3.53it/s]
Power Factorization:	10%	50/500	[00:13<02:05,	3.59it/s]
Power Factorization:	10%	51/500	[00:13<01:56,	3.87it/s]
Power Factorization:	10%	52/500	[00:14<01:57,	3.81it/s]
Power Factorization:	11%	53/500	[00:14<02:04,	3.60it/s]
Power Factorization:	11%	54/500	[00:14<02:05,	3.55it/s]
Power Factorization:	11%	55/500	[00:15<01:59,	3.73it/s]
Power Factorization:	11%	56/500	[00:15<01:51,	3.98it/s]
Power Factorization:	11%	57/500	[00:15<01:51,	3.98it/s]
Power Factorization:	12%	58/500	[00:15<01:47,	4.12it/s]
Power Factorization:	12%	59/500	[00:15<01:49,	4.02it/s]
Power Factorization:	12%	60/500	[00:16<01:54,	3.84it/s]
Power Factorization:	12%	61/500	[00:16<01:51,	3.93it/s]
Power Factorization:	12%	62/500	[00:16<01:56,	3.76it/s]
Power Factorization:	13%	63/500	[00:17<01:56,	3.77it/s]
Power Factorization:	13%	64/500	[00:17<01:59,	3.63it/s]

Power Factorization: 13%	65/500 [00:17<02:17, 3.16it/s]
Power Factorization: 13%	66/500 [00:18<02:07, 3.39it/s]
Power Factorization: 13%	67/500 [00:18<02:18, 3.12it/s]
Power Factorization: 14%	68/500 [00:18<02:07, 3.38it/s]
Power Factorization: 14%	69/500 [00:18<02:10, 3.31it/s]
Power Factorization: 14%	70/500 [00:19<02:02, 3.51it/s]
Power Factorization: 14%	71/500 [00:19<01:58, 3.61it/s]
Power Factorization: 14%	72/500 [00:19<01:56, 3.68it/s]
Power Factorization: 15%	73/500 [00:20<01:56, 3.68it/s]
Power Factorization: 15%	74/500 [00:20<01:52, 3.78it/s]
Power Factorization: 15%	75/500 [00:20<01:51, 3.82it/s]
Power Factorization: 15%	76/500 [00:20<01:51, 3.82it/s]
Power Factorization: 15%	77/500 [00:21<01:50, 3.82it/s]
Power Factorization: 16%	78/500 [00:21<01:55, 3.66it/s]
Power Factorization: 16%	79/500 [00:21<01:53, 3.69it/s]
Power Factorization: 16%	80/500 [00:21<01:51, 3.78it/s]
Power Factorization: 16%	81/500 [00:22<01:55, 3.63it/s]
Power Factorization: 16%	82/500 [00:22<01:48, 3.86it/s]
Power Factorization: 17%	83/500 [00:22<02:02, 3.41it/s]
Power Factorization: 17%	84/500 [00:22<01:56, 3.58it/s]
Power Factorization: 17%	85/500 [00:23<01:51, 3.72it/s]
Power Factorization: 17%	86/500 [00:23<01:52, 3.67it/s]
Power Factorization: 17%	87/500 [00:23<01:46, 3.88it/s]
Power Factorization: 18%	88/500 [00:24<01:48, 3.80it/s]

Power Factorization: 18%	89/500 [00:24<01:47, 3.83it/s]
Power Factorization: 18%	90/500 [00:24<01:47, 3.80it/s]
Power Factorization: 18%	91/500 [00:24<01:42, 4.01it/s]
Power Factorization: 18%	92/500 [00:24<01:40, 4.05it/s]
Power Factorization: 19%	93/500 [00:25<01:38, 4.13it/s]
Power Factorization: 19%	94/500 [00:25<01:45, 3.83it/s]
Power Factorization: 19%	95/500 [00:25<01:44, 3.88it/s]
Power Factorization: 19%	96/500 [00:26<01:41, 3.98it/s]
Power Factorization: 19%	97/500 [00:26<01:39, 4.06it/s]
Power Factorization: 20%	98/500 [00:26<01:35, 4.23it/s]
Power Factorization: 20%	99/500 [00:26<01:30, 4.42it/s]
Power Factorization: 20%	100/500 [00:26<01:38, 4.08it/s]
Power Factorization: 20%	101/500 [00:27<01:41, 3.94it/s]
Power Factorization: 20%	102/500 [00:27<01:51, 3.57it/s]
Power Factorization: 21%	103/500 [00:27<01:50, 3.58it/s]
Power Factorization: 21%	104/500 [00:28<01:43, 3.84it/s]
Power Factorization: 21%	105/500 [00:28<01:37, 4.03it/s]
Power Factorization: 21%	106/500 [00:28<01:42, 3.85it/s]
Power Factorization: 21%	107/500 [00:28<01:45, 3.73it/s]
Power Factorization: 22%	108/500 [00:29<01:43, 3.78it/s]
Power Factorization: 22%	109/500 [00:29<01:39, 3.92it/s]
Power Factorization: 22%	110/500 [00:29<01:41, 3.83it/s]
Power Factorization: 22%	111/500 [00:29<01:37, 3.98it/s]
Power Factorization: 22%	112/500 [00:30<01:38, 3.94it/s]

Power Factorization: 23%	113/500 [00:30<01:54, 3.37it/s]
Power Factorization: 23%	114/500 [00:30<01:59, 3.22it/s]
Power Factorization: 23%	115/500 [00:31<01:54, 3.38it/s]
Power Factorization: 23%	116/500 [00:31<01:46, 3.62it/s]
Power Factorization: 23%	117/500 [00:31<01:45, 3.64it/s]
Power Factorization: 24%	118/500 [00:31<01:49, 3.50it/s]
Power Factorization: 24%	119/500 [00:32<02:03, 3.09it/s]
Power Factorization: 24%	120/500 [00:32<02:05, 3.03it/s]
Power Factorization: 24%	121/500 [00:33<02:06, 2.99it/s]
Power Factorization: 24%	122/500 [00:33<02:08, 2.93it/s]
Power Factorization: 25%	123/500 [00:33<01:59, 3.16it/s]
Power Factorization: 25%	124/500 [00:33<01:57, 3.19it/s]
Power Factorization: 25%	125/500 [00:34<01:59, 3.13it/s]
Power Factorization: 25%	126/500 [00:34<01:51, 3.34it/s]
Power Factorization: 25%	127/500 [00:34<01:48, 3.44it/s]
Power Factorization: 26%	128/500 [00:34<01:36, 3.86it/s]
Power Factorization: 26%	129/500 [00:35<01:30, 4.08it/s]
Power Factorization: 26%	130/500 [00:35<01:32, 4.01it/s]
Power Factorization: 26%	131/500 [00:35<01:29, 4.14it/s]
Power Factorization: 26%	132/500 [00:35<01:30, 4.07it/s]
Power Factorization: 27%	133/500 [00:36<01:29, 4.11it/s]
Power Factorization: 27%	134/500 [00:36<01:27, 4.20it/s]
Power Factorization: 27%	135/500 [00:36<01:26, 4.21it/s]
Power Factorization: 27%	136/500 [00:36<01:29, 4.05it/s]

Power Factorization: 27%	137/500 [00:37<01:30, 4.00it/s]
Power Factorization: 28%	138/500 [00:37<01:51, 3.26it/s]
Power Factorization: 28%	139/500 [00:37<01:48, 3.34it/s]
Power Factorization: 28%	140/500 [00:38<01:37, 3.70it/s]
Power Factorization: 28%	141/500 [00:38<01:37, 3.70it/s]
Power Factorization: 28%	142/500 [00:38<01:35, 3.74it/s]
Power Factorization: 29%	143/500 [00:38<01:32, 3.84it/s]
Power Factorization: 29%	144/500 [00:39<01:28, 4.00it/s]
Power Factorization: 29%	145/500 [00:39<01:30, 3.94it/s]
Power Factorization: 29%	146/500 [00:39<01:33, 3.78it/s]
Power Factorization: 29%	147/500 [00:39<01:28, 3.98it/s]
Power Factorization: 30%	148/500 [00:40<01:28, 3.99it/s]
Power Factorization: 30%	149/500 [00:40<01:25, 4.12it/s]
Power Factorization: 30%	150/500 [00:40<01:25, 4.09it/s]
Power Factorization: 30%	151/500 [00:40<01:29, 3.90it/s]
Power Factorization: 30%	152/500 [00:41<01:38, 3.55it/s]
Power Factorization: 31%	153/500 [00:41<01:41, 3.43it/s]
Power Factorization: 31%	154/500 [00:41<01:33, 3.69it/s]
Power Factorization: 31%	155/500 [00:41<01:30, 3.80it/s]
Power Factorization: 31%	156/500 [00:42<01:29, 3.86it/s]
Power Factorization: 31%	157/500 [00:42<01:28, 3.88it/s]
Power Factorization: 32%	158/500 [00:42<01:29, 3.81it/s]
Power Factorization: 32%	159/500 [00:43<01:31, 3.72it/s]
Power Factorization: 32%	160/500 [00:43<01:27, 3.87it/s]

Power Factorization: 32%	161/500 [00:43<01:24,	4.02it/s]
Power Factorization: 32%	162/500 [00:43<01:29,	3.77it/s]
Power Factorization: 33%	163/500 [00:44<01:32,	3.66it/s]
Power Factorization: 33%	164/500 [00:44<01:33,	3.60it/s]
Power Factorization: 33%	165/500 [00:44<01:28,	3.78it/s]
Power Factorization: 33%	166/500 [00:44<01:28,	3.79it/s]
Power Factorization: 33%	167/500 [00:45<01:24,	3.96it/s]
Power Factorization: 34%	168/500 [00:45<01:24,	3.92it/s]
Power Factorization: 34%	169/500 [00:45<01:25,	3.87it/s]
Power Factorization: 34%	170/500 [00:45<01:29,	3.71it/s]
Power Factorization: 34%	171/500 [00:46<01:40,	3.27it/s]
Power Factorization: 34%	172/500 [00:46<01:51,	2.95it/s]
Power Factorization: 35%	173/500 [00:47<01:43,	3.16it/s]
Power Factorization: 35%	174/500 [00:47<01:36,	3.36it/s]
Power Factorization: 35%	175/500 [00:47<01:31,	3.54it/s]
Power Factorization: 35%	176/500 [00:47<01:26,	3.76it/s]
Power Factorization: 35%	177/500 [00:47<01:24,	3.84it/s]
Power Factorization: 36%	178/500 [00:48<01:22,	3.91it/s]
Power Factorization: 36%	179/500 [00:48<01:19,	4.04it/s]
Power Factorization: 36%	180/500 [00:48<01:22,	3.90it/s]
Power Factorization: 36%	181/500 [00:49<01:25,	3.74it/s]
Power Factorization: 36%	182/500 [00:49<01:21,	3.92it/s]
Power Factorization: 37%	183/500 [00:49<01:18,	4.02it/s]
Power Factorization: 37%	184/500 [00:49<01:16,	4.11it/s]

Power Factorization: 37%	185/500 [00:49<01:18,	4.00it/s]
Power Factorization: 37%	186/500 [00:50<01:17,	4.06it/s]
Power Factorization: 37%	187/500 [00:50<01:16,	4.09it/s]
Power Factorization: 38%	188/500 [00:50<01:16,	4.05it/s]
Power Factorization: 38%	189/500 [00:50<01:13,	4.24it/s]
Power Factorization: 38%	190/500 [00:51<01:12,	4.26it/s]
Power Factorization: 38%	191/500 [00:51<01:15,	4.09it/s]
Power Factorization: 38%	192/500 [00:51<01:12,	4.25it/s]
Power Factorization: 39%	193/500 [00:51<01:11,	4.32it/s]
Power Factorization: 39%	194/500 [00:52<01:14,	4.11it/s]
Power Factorization: 39%	195/500 [00:52<01:17,	3.95it/s]
Power Factorization: 39%	196/500 [00:52<01:16,	3.96it/s]
Power Factorization: 39%	197/500 [00:52<01:17,	3.91it/s]
Power Factorization: 40%	198/500 [00:53<01:18,	3.87it/s]
Power Factorization: 40%	199/500 [00:53<01:20,	3.74it/s]
Power Factorization: 40%	200/500 [00:53<01:19,	3.76it/s]
Power Factorization: 40%	201/500 [00:54<01:20,	3.72it/s]
Power Factorization: 40%	202/500 [00:54<01:18,	3.82it/s]
Power Factorization: 41%	203/500 [00:54<01:14,	3.98it/s]
Power Factorization: 41%	204/500 [00:54<01:15,	3.90it/s]
Power Factorization: 41%	205/500 [00:54<01:11,	4.11it/s]
Power Factorization: 41%	206/500 [00:55<01:19,	3.69it/s]
Power Factorization: 41%	207/500 [00:55<01:14,	3.93it/s]
Power Factorization: 42%	208/500 [00:55<01:15,	3.88it/s]

Power Factorization: 42%	209/500 [00:56<01:14, 3.92it/s]
Power Factorization: 42%	210/500 [00:56<01:13, 3.92it/s]
Power Factorization: 42%	211/500 [00:56<01:11, 4.05it/s]
Power Factorization: 42%	212/500 [00:56<01:07, 4.30it/s]
Power Factorization: 43%	213/500 [00:57<01:11, 4.00it/s]
Power Factorization: 43%	214/500 [00:57<01:14, 3.85it/s]
Power Factorization: 43%	215/500 [00:57<01:23, 3.43it/s]
Power Factorization: 43%	216/500 [00:57<01:18, 3.64it/s]
Power Factorization: 43%	217/500 [00:58<01:15, 3.76it/s]
Power Factorization: 44%	218/500 [00:58<01:20, 3.50it/s]
Power Factorization: 44%	219/500 [00:58<01:20, 3.50it/s]
Power Factorization: 44%	220/500 [00:59<01:19, 3.53it/s]
Power Factorization: 44%	221/500 [00:59<01:19, 3.50it/s]
Power Factorization: 44%	222/500 [00:59<01:25, 3.25it/s]
Power Factorization: 45%	223/500 [00:59<01:21, 3.41it/s]
Power Factorization: 45%	224/500 [01:00<01:14, 3.72it/s]
Power Factorization: 45%	225/500 [01:00<01:14, 3.71it/s]
Power Factorization: 45%	226/500 [01:00<01:23, 3.27it/s]
Power Factorization: 45%	227/500 [01:01<01:23, 3.28it/s]
Power Factorization: 46%	228/500 [01:01<01:18, 3.45it/s]
Power Factorization: 46%	229/500 [01:01<01:14, 3.62it/s]
Power Factorization: 46%	230/500 [01:01<01:16, 3.53it/s]
Power Factorization: 46%	231/500 [01:02<01:12, 3.71it/s]
Power Factorization: 46%	232/500 [01:02<01:17, 3.44it/s]

Power Factorization: 47%	233/500 [01:02<01:22, 3.23it/s]
Power Factorization: 47%	234/500 [01:03<01:20, 3.29it/s]
Power Factorization: 47%	235/500 [01:03<01:18, 3.39it/s]
Power Factorization: 47%	236/500 [01:03<01:15, 3.51it/s]
Power Factorization: 47%	237/500 [01:03<01:11, 3.68it/s]
Power Factorization: 48%	238/500 [01:04<01:20, 3.27it/s]
Power Factorization: 48%	239/500 [01:04<01:23, 3.11it/s]
Power Factorization: 48%	240/500 [01:04<01:18, 3.31it/s]
Power Factorization: 48%	241/500 [01:05<01:14, 3.47it/s]
Power Factorization: 48%	242/500 [01:05<01:10, 3.67it/s]
Power Factorization: 49%	243/500 [01:05<01:09, 3.69it/s]
Power Factorization: 49%	244/500 [01:06<01:16, 3.34it/s]
Power Factorization: 49%	245/500 [01:06<01:10, 3.60it/s]
Power Factorization: 49%	246/500 [01:06<01:07, 3.76it/s]
Power Factorization: 49%	247/500 [01:06<01:07, 3.73it/s]
Power Factorization: 50%	248/500 [01:07<01:07, 3.72it/s]
Power Factorization: 50%	249/500 [01:07<01:06, 3.78it/s]
Power Factorization: 50%	250/500 [01:07<01:05, 3.85it/s]
Power Factorization: 50%	251/500 [01:07<01:03, 3.91it/s]
Power Factorization: 50%	252/500 [01:08<01:03, 3.89it/s]
Power Factorization: 51%	253/500 [01:08<01:01, 4.02it/s]
Power Factorization: 51%	254/500 [01:08<00:59, 4.11it/s]
Power Factorization: 51%	255/500 [01:08<00:59, 4.12it/s]
Power Factorization: 51%	256/500 [01:09<01:01, 3.96it/s]

Power Factorization: 51%	257/500 [01:09<01:02, 3.87it/s]
Power Factorization: 52%	258/500 [01:09<01:02, 3.88it/s]
Power Factorization: 52%	259/500 [01:09<01:03, 3.79it/s]
Power Factorization: 52%	260/500 [01:10<01:03, 3.81it/s]
Power Factorization: 52%	261/500 [01:10<00:58, 4.09it/s]
Power Factorization: 52%	262/500 [01:10<00:57, 4.12it/s]
Power Factorization: 53%	263/500 [01:10<00:57, 4.10it/s]
Power Factorization: 53%	264/500 [01:10<00:54, 4.34it/s]
Power Factorization: 53%	265/500 [01:11<01:02, 3.78it/s]
Power Factorization: 53%	266/500 [01:11<00:58, 3.98it/s]
Power Factorization: 53%	267/500 [01:11<01:00, 3.87it/s]
Power Factorization: 54%	268/500 [01:12<01:00, 3.82it/s]
Power Factorization: 54%	269/500 [01:12<01:12, 3.18it/s]
Power Factorization: 54%	270/500 [01:12<01:11, 3.21it/s]
Power Factorization: 54%	271/500 [01:13<01:06, 3.44it/s]
Power Factorization: 54%	272/500 [01:13<01:04, 3.51it/s]
Power Factorization: 55%	273/500 [01:13<01:02, 3.63it/s]
Power Factorization: 55%	274/500 [01:13<01:03, 3.54it/s]
Power Factorization: 55%	275/500 [01:14<01:05, 3.41it/s]
Power Factorization: 55%	276/500 [01:14<01:04, 3.49it/s]
Power Factorization: 55%	277/500 [01:14<01:10, 3.17it/s]
Power Factorization: 56%	278/500 [01:15<01:08, 3.22it/s]
Power Factorization: 56%	279/500 [01:15<01:06, 3.30it/s]
Power Factorization: 56%	280/500 [01:15<01:06, 3.29it/s]

Power Factorization: 56%	281/500 [01:16<01:01, 3.55it/s]
Power Factorization: 56%	282/500 [01:16<01:04, 3.38it/s]
Power Factorization: 57%	283/500 [01:16<01:04, 3.38it/s]
Power Factorization: 57%	284/500 [01:16<01:03, 3.38it/s]
Power Factorization: 57%	285/500 [01:17<01:04, 3.35it/s]
Power Factorization: 57%	286/500 [01:17<01:02, 3.44it/s]
Power Factorization: 57%	287/500 [01:17<01:10, 3.04it/s]
Power Factorization: 58%	288/500 [01:18<01:09, 3.07it/s]
Power Factorization: 58%	289/500 [01:18<01:05, 3.20it/s]
Power Factorization: 58%	290/500 [01:18<01:04, 3.25it/s]
Power Factorization: 58%	291/500 [01:19<01:05, 3.21it/s]
Power Factorization: 58%	292/500 [01:19<01:06, 3.15it/s]
Power Factorization: 59%	293/500 [01:19<01:03, 3.23it/s]
Power Factorization: 59%	294/500 [01:20<01:03, 3.23it/s]
Power Factorization: 59%	295/500 [01:20<00:59, 3.43it/s]
Power Factorization: 59%	296/500 [01:20<00:59, 3.46it/s]
Power Factorization: 59%	297/500 [01:20<01:00, 3.37it/s]
Power Factorization: 60%	298/500 [01:21<00:57, 3.52it/s]
Power Factorization: 60%	299/500 [01:21<00:56, 3.54it/s]
Power Factorization: 60%	300/500 [01:21<01:10, 2.83it/s]
Power Factorization: 60%	301/500 [01:22<01:05, 3.05it/s]
Power Factorization: 60%	302/500 [01:22<01:03, 3.13it/s]
Power Factorization: 61%	303/500 [01:22<01:01, 3.19it/s]
Power Factorization: 61%	304/500 [01:23<00:59, 3.27it/s]

Power Factorization: 61%	305/500 [01:23<00:56, 3.43it/s]
Power Factorization: 61%	306/500 [01:23<01:00, 3.22it/s]
Power Factorization: 61%	307/500 [01:24<01:00, 3.19it/s]
Power Factorization: 62%	308/500 [01:24<01:02, 3.09it/s]
Power Factorization: 62%	309/500 [01:24<00:58, 3.26it/s]
Power Factorization: 62%	310/500 [01:25<01:01, 3.11it/s]
Power Factorization: 62%	311/500 [01:25<00:59, 3.19it/s]
Power Factorization: 62%	312/500 [01:25<00:58, 3.23it/s]
Power Factorization: 63%	313/500 [01:25<00:56, 3.33it/s]
Power Factorization: 63%	314/500 [01:26<00:59, 3.14it/s]
Power Factorization: 63%	315/500 [01:26<00:55, 3.32it/s]
Power Factorization: 63%	316/500 [01:26<00:57, 3.21it/s]
Power Factorization: 63%	317/500 [01:27<00:59, 3.09it/s]
Power Factorization: 64%	318/500 [01:27<00:59, 3.06it/s]
Power Factorization: 64%	319/500 [01:27<01:01, 2.92it/s]
Power Factorization: 64%	320/500 [01:28<01:04, 2.80it/s]
Power Factorization: 64%	321/500 [01:28<01:05, 2.73it/s]
Power Factorization: 64%	322/500 [01:29<01:04, 2.75it/s]
Power Factorization: 65%	323/500 [01:29<01:01, 2.90it/s]
Power Factorization: 65%	324/500 [01:29<00:58, 2.99it/s]
Power Factorization: 65%	325/500 [01:29<00:56, 3.10it/s]
Power Factorization: 65%	326/500 [01:30<00:55, 3.14it/s]
Power Factorization: 65%	327/500 [01:30<00:52, 3.32it/s]
Power Factorization: 66%	328/500 [01:30<00:49, 3.48it/s]

Power Factorization: 66%	329/500 [01:31<00:48,	3.50it/s]
Power Factorization: 66%	330/500 [01:31<00:51,	3.31it/s]
Power Factorization: 66%	331/500 [01:31<00:48,	3.52it/s]
Power Factorization: 66%	332/500 [01:31<00:47,	3.57it/s]
Power Factorization: 67%	333/500 [01:32<00:46,	3.60it/s]
Power Factorization: 67%	334/500 [01:32<00:47,	3.49it/s]
Power Factorization: 67%	335/500 [01:32<00:47,	3.46it/s]
Power Factorization: 67%	336/500 [01:33<00:50,	3.26it/s]
Power Factorization: 67%	337/500 [01:33<00:48,	3.34it/s]
Power Factorization: 68%	338/500 [01:33<00:53,	3.03it/s]
Power Factorization: 68%	339/500 [01:34<00:48,	3.29it/s]
Power Factorization: 68%	340/500 [01:34<00:47,	3.36it/s]
Power Factorization: 68%	341/500 [01:34<00:46,	3.45it/s]
Power Factorization: 68%	342/500 [01:34<00:43,	3.60it/s]
Power Factorization: 69%	343/500 [01:35<00:41,	3.83it/s]
Power Factorization: 69%	344/500 [01:35<00:41,	3.77it/s]
Power Factorization: 69%	345/500 [01:35<00:40,	3.80it/s]
Power Factorization: 69%	346/500 [01:35<00:38,	4.01it/s]
Power Factorization: 69%	347/500 [01:36<00:38,	3.97it/s]
Power Factorization: 70%	348/500 [01:36<00:39,	3.89it/s]
Power Factorization: 70%	349/500 [01:36<00:38,	3.89it/s]
Power Factorization: 70%	350/500 [01:36<00:37,	4.00it/s]
Power Factorization: 70%	351/500 [01:37<00:40,	3.70it/s]
Power Factorization: 70%	352/500 [01:37<00:40,	3.64it/s]

Power Factorization: 71%	353/500 [01:37<00:42,	3.49it/s]
Power Factorization: 71%	354/500 [01:38<00:39,	3.70it/s]
Power Factorization: 71%	355/500 [01:38<00:36,	4.00it/s]
Power Factorization: 71%	356/500 [01:38<00:34,	4.17it/s]
Power Factorization: 71%	357/500 [01:38<00:37,	3.78it/s]
Power Factorization: 72%	358/500 [01:39<00:42,	3.37it/s]
Power Factorization: 72%	359/500 [01:39<00:38,	3.69it/s]
Power Factorization: 72%	360/500 [01:39<00:38,	3.59it/s]
Power Factorization: 72%	361/500 [01:39<00:37,	3.70it/s]
Power Factorization: 72%	362/500 [01:40<00:36,	3.73it/s]
Power Factorization: 73%	363/500 [01:40<00:38,	3.56it/s]
Power Factorization: 73%	364/500 [01:40<00:38,	3.50it/s]
Power Factorization: 73%	365/500 [01:40<00:36,	3.69it/s]
Power Factorization: 73%	366/500 [01:41<00:38,	3.50it/s]
Power Factorization: 73%	367/500 [01:41<00:37,	3.56it/s]
Power Factorization: 74%	368/500 [01:41<00:35,	3.70it/s]
Power Factorization: 74%	369/500 [01:42<00:35,	3.73it/s]
Power Factorization: 74%	370/500 [01:42<00:33,	3.92it/s]
Power Factorization: 74%	371/500 [01:42<00:34,	3.78it/s]
Power Factorization: 74%	372/500 [01:42<00:33,	3.82it/s]
Power Factorization: 75%	373/500 [01:43<00:33,	3.82it/s]
Power Factorization: 75%	374/500 [01:43<00:34,	3.67it/s]
Power Factorization: 75%	375/500 [01:43<00:32,	3.82it/s]
Power Factorization: 75%	376/500 [01:44<00:37,	3.28it/s]

Power Factorization: 75%	377/500 [01:44<00:40,	3.03it/s]
Power Factorization: 76%	378/500 [01:44<00:39,	3.06it/s]
Power Factorization: 76%	379/500 [01:45<00:36,	3.27it/s]
Power Factorization: 76%	380/500 [01:45<00:33,	3.54it/s]
Power Factorization: 76%	381/500 [01:45<00:34,	3.50it/s]
Power Factorization: 76%	382/500 [01:45<00:32,	3.68it/s]
Power Factorization: 77%	383/500 [01:46<00:31,	3.75it/s]
Power Factorization: 77%	384/500 [01:46<00:29,	3.89it/s]
Power Factorization: 77%	385/500 [01:46<00:28,	4.11it/s]
Power Factorization: 77%	386/500 [01:46<00:28,	4.06it/s]
Power Factorization: 77%	387/500 [01:47<00:31,	3.61it/s]
Power Factorization: 78%	388/500 [01:47<00:33,	3.38it/s]
Power Factorization: 78%	389/500 [01:47<00:30,	3.59it/s]
Power Factorization: 78%	390/500 [01:47<00:28,	3.83it/s]
Power Factorization: 78%	391/500 [01:48<00:28,	3.84it/s]
Power Factorization: 78%	392/500 [01:48<00:28,	3.75it/s]
Power Factorization: 79%	393/500 [01:48<00:27,	3.87it/s]
Power Factorization: 79%	394/500 [01:48<00:26,	3.95it/s]
Power Factorization: 79%	395/500 [01:49<00:25,	4.05it/s]
Power Factorization: 79%	396/500 [01:49<00:25,	4.09it/s]
Power Factorization: 79%	397/500 [01:49<00:25,	4.10it/s]
Power Factorization: 80%	398/500 [01:49<00:24,	4.10it/s]
Power Factorization: 80%	399/500 [01:50<00:23,	4.21it/s]
Power Factorization: 80%	400/500 [01:50<00:24,	4.11it/s]

Power Factorization: 80%	401/500 [01:50<00:23, 4.20it/s]
Power Factorization: 80%	402/500 [01:50<00:23, 4.19it/s]
Power Factorization: 81%	403/500 [01:51<00:23, 4.16it/s]
Power Factorization: 81%	404/500 [01:51<00:23, 4.15it/s]
Power Factorization: 81%	405/500 [01:51<00:23, 4.13it/s]
Power Factorization: 81%	406/500 [01:51<00:22, 4.15it/s]
Power Factorization: 81%	407/500 [01:51<00:21, 4.32it/s]
Power Factorization: 82%	408/500 [01:52<00:21, 4.26it/s]
Power Factorization: 82%	409/500 [01:52<00:22, 4.02it/s]
Power Factorization: 82%	410/500 [01:52<00:22, 3.93it/s]
Power Factorization: 82%	411/500 [01:53<00:22, 3.99it/s]
Power Factorization: 82%	412/500 [01:53<00:21, 4.15it/s]
Power Factorization: 83%	413/500 [01:53<00:20, 4.19it/s]
Power Factorization: 83%	414/500 [01:53<00:23, 3.65it/s]
Power Factorization: 83%	415/500 [01:54<00:21, 3.89it/s]
Power Factorization: 83%	416/500 [01:54<00:22, 3.81it/s]
Power Factorization: 83%	417/500 [01:54<00:20, 3.98it/s]
Power Factorization: 84%	418/500 [01:54<00:19, 4.16it/s]
Power Factorization: 84%	419/500 [01:55<00:20, 3.97it/s]
Power Factorization: 84%	420/500 [01:55<00:19, 4.11it/s]
Power Factorization: 84%	421/500 [01:55<00:18, 4.16it/s]
Power Factorization: 84%	422/500 [01:55<00:18, 4.28it/s]
Power Factorization: 85%	423/500 [01:55<00:18, 4.10it/s]
Power Factorization: 85%	424/500 [01:56<00:18, 4.11it/s]

Power Factorization: 85%	425/500 [01:56<00:18,	4.01it/s]
Power Factorization: 85%	426/500 [01:56<00:19,	3.83it/s]
Power Factorization: 85%	427/500 [01:57<00:18,	3.85it/s]
Power Factorization: 86%	428/500 [01:57<00:18,	3.92it/s]
Power Factorization: 86%	429/500 [01:57<00:17,	4.16it/s]
Power Factorization: 86%	430/500 [01:57<00:18,	3.84it/s]
Power Factorization: 86%	431/500 [01:58<00:19,	3.58it/s]
Power Factorization: 86%	432/500 [01:58<00:18,	3.62it/s]
Power Factorization: 87%	433/500 [01:58<00:17,	3.77it/s]
Power Factorization: 87%	434/500 [01:58<00:18,	3.59it/s]
Power Factorization: 87%	435/500 [01:59<00:19,	3.36it/s]
Power Factorization: 87%	436/500 [01:59<00:19,	3.36it/s]
Power Factorization: 87%	437/500 [01:59<00:17,	3.60it/s]
Power Factorization: 88%	438/500 [02:00<00:16,	3.72it/s]
Power Factorization: 88%	439/500 [02:00<00:16,	3.79it/s]
Power Factorization: 88%	440/500 [02:00<00:15,	3.97it/s]
Power Factorization: 88%	441/500 [02:00<00:14,	4.01it/s]
Power Factorization: 88%	442/500 [02:00<00:13,	4.39it/s]
Power Factorization: 89%	443/500 [02:01<00:13,	4.19it/s]
Power Factorization: 89%	444/500 [02:01<00:13,	4.18it/s]
Power Factorization: 89%	445/500 [02:01<00:13,	4.16it/s]
Power Factorization: 89%	446/500 [02:01<00:13,	4.00it/s]
Power Factorization: 89%	447/500 [02:02<00:13,	3.82it/s]
Power Factorization: 90%	448/500 [02:02<00:14,	3.62it/s]

Power Factorization: 90%	449/500 [02:02<00:13,	3.70it/s]
Power Factorization: 90%	450/500 [02:03<00:13,	3.77it/s]
Power Factorization: 90%	451/500 [02:03<00:12,	4.01it/s]
Power Factorization: 90%	452/500 [02:03<00:11,	4.10it/s]
Power Factorization: 91%	453/500 [02:03<00:11,	4.18it/s]
Power Factorization: 91%	454/500 [02:04<00:11,	4.02it/s]
Power Factorization: 91%	455/500 [02:04<00:12,	3.60it/s]
Power Factorization: 91%	456/500 [02:04<00:11,	3.68it/s]
Power Factorization: 91%	457/500 [02:04<00:11,	3.76it/s]
Power Factorization: 92%	458/500 [02:05<00:11,	3.70it/s]
Power Factorization: 92%	459/500 [02:05<00:11,	3.71it/s]
Power Factorization: 92%	460/500 [02:05<00:10,	3.89it/s]
Power Factorization: 92%	461/500 [02:05<00:09,	4.00it/s]
Power Factorization: 92%	462/500 [02:06<00:09,	4.03it/s]
Power Factorization: 93%	463/500 [02:06<00:08,	4.16it/s]
Power Factorization: 93%	464/500 [02:06<00:09,	3.99it/s]
Power Factorization: 93%	465/500 [02:06<00:09,	3.86it/s]
Power Factorization: 93%	466/500 [02:07<00:08,	3.90it/s]
Power Factorization: 93%	467/500 [02:07<00:08,	3.79it/s]
Power Factorization: 94%	468/500 [02:07<00:08,	3.79it/s]
Power Factorization: 94%	469/500 [02:07<00:07,	3.91it/s]
Power Factorization: 94%	470/500 [02:08<00:07,	4.10it/s]
Power Factorization: 94%	471/500 [02:08<00:08,	3.47it/s]
Power Factorization: 94%	472/500 [02:08<00:08,	3.18it/s]

Power Factorization: 95%	473/500 [02:09<00:07, 3.51it/s]
Power Factorization: 95%	474/500 [02:09<00:07, 3.36it/s]
Power Factorization: 95%	475/500 [02:09<00:07, 3.53it/s]
Power Factorization: 95%	476/500 [02:09<00:06, 3.59it/s]
Power Factorization: 95%	477/500 [02:10<00:06, 3.82it/s]
Power Factorization: 96%	478/500 [02:10<00:05, 3.82it/s]
Power Factorization: 96%	479/500 [02:10<00:05, 3.62it/s]
Power Factorization: 96%	480/500 [02:11<00:05, 3.71it/s]
Power Factorization: 96%	481/500 [02:11<00:05, 3.73it/s]
Power Factorization: 96%	482/500 [02:11<00:04, 3.87it/s]
Power Factorization: 97%	483/500 [02:11<00:04, 3.79it/s]
Power Factorization: 97%	484/500 [02:12<00:03, 4.04it/s]
Power Factorization: 97%	485/500 [02:12<00:03, 3.81it/s]
Power Factorization: 97%	486/500 [02:12<00:03, 3.70it/s]
Power Factorization: 97%	487/500 [02:12<00:03, 3.94it/s]
Power Factorization: 98%	488/500 [02:13<00:02, 4.10it/s]
Power Factorization: 98%	489/500 [02:13<00:02, 3.94it/s]
Power Factorization: 98%	490/500 [02:13<00:02, 3.98it/s]
Power Factorization: 98%	491/500 [02:13<00:02, 3.75it/s]
Power Factorization: 98%	492/500 [02:14<00:02, 3.95it/s]
Power Factorization: 99%	493/500 [02:14<00:01, 4.01it/s]
Power Factorization: 99%	494/500 [02:14<00:01, 4.12it/s]
Power Factorization: 99%	495/500 [02:14<00:01, 3.85it/s]
Power Factorization: 99%	496/500 [02:15<00:01, 3.91it/s]

Power Factorization: 99%	497/500 [02:15<00:00, 3.96it/s]
Power Factorization: 100%	498/500 [02:15<00:00, 3.95it/s]
Power Factorization: 100%	499/500 [02:15<00:00, 3.88it/s]
Power Factorization: 100%	500/500 [02:16<00:00, 3.67it/s]
Cross Validation: 20%	1/5 [02:16<09:04, 136.19s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:11, 3.80it/s]
Power Factorization: 0%	2/500 [00:00<02:03, 4.02it/s]
Power Factorization: 1%	3/500 [00:01<03:01, 2.73it/s]
Power Factorization: 1%	4/500 [00:01<02:46, 2.98it/s]
Power Factorization: 1%	5/500 [00:01<02:51, 2.88it/s]
Power Factorization: 1%	6/500 [00:01<02:32, 3.23it/s]
Power Factorization: 1%	7/500 [00:02<02:23, 3.42it/s]
Power Factorization: 2%	8/500 [00:02<02:35, 3.17it/s]
Power Factorization: 2%	9/500 [00:02<02:22, 3.44it/s]
Power Factorization: 2%	10/500 [00:03<02:17, 3.56it/s]
Power Factorization: 2%	11/500 [00:03<02:14, 3.62it/s]
Power Factorization: 2%	12/500 [00:03<02:16, 3.58it/s]
Power Factorization: 3%	13/500 [00:03<02:17, 3.54it/s]
Power Factorization: 3%	14/500 [00:04<02:34, 3.15it/s]
Power Factorization: 3%	15/500 [00:04<02:30, 3.22it/s]
Power Factorization: 3%	16/500 [00:04<02:28, 3.26it/s]
Power Factorization: 3%	17/500 [00:05<02:28, 3.25it/s]
Power Factorization: 4%	18/500 [00:05<02:37, 3.07it/s]

Power Factorization:	4%	19/500	[00:05<02:45,	2.91it/s]
Power Factorization:	4%	20/500	[00:06<02:41,	2.97it/s]
Power Factorization:	4%	21/500	[00:06<03:00,	2.65it/s]
Power Factorization:	4%	22/500	[00:07<02:50,	2.80it/s]
Power Factorization:	5%	23/500	[00:07<02:40,	2.96it/s]
Power Factorization:	5%	24/500	[00:07<02:30,	3.16it/s]
Power Factorization:	5%	25/500	[00:07<02:20,	3.38it/s]
Power Factorization:	5%	26/500	[00:08<02:14,	3.52it/s]
Power Factorization:	5%	27/500	[00:08<02:22,	3.33it/s]
Power Factorization:	6%	28/500	[00:08<02:22,	3.32it/s]
Power Factorization:	6%	29/500	[00:09<02:25,	3.24it/s]
Power Factorization:	6%	30/500	[00:09<02:24,	3.26it/s]
Power Factorization:	6%	31/500	[00:09<02:17,	3.40it/s]
Power Factorization:	6%	32/500	[00:09<02:15,	3.46it/s]
Power Factorization:	7%	33/500	[00:10<02:14,	3.48it/s]
Power Factorization:	7%	34/500	[00:10<02:08,	3.62it/s]
Power Factorization:	7%	35/500	[00:10<02:11,	3.53it/s]
Power Factorization:	7%	36/500	[00:11<02:12,	3.49it/s]
Power Factorization:	7%	37/500	[00:11<02:09,	3.58it/s]
Power Factorization:	8%	38/500	[00:11<02:07,	3.63it/s]
Power Factorization:	8%	39/500	[00:11<02:02,	3.77it/s]
Power Factorization:	8%	40/500	[00:12<02:01,	3.78it/s]
Power Factorization:	8%	41/500	[00:12<02:04,	3.70it/s]
Power Factorization:	8%	42/500	[00:12<02:07,	3.60it/s]

Power Factorization:	9%	43/500 [00:13<02:20, 3.26it/s]
Power Factorization:	9%	44/500 [00:13<02:21, 3.23it/s]
Power Factorization:	9%	45/500 [00:13<02:18, 3.28it/s]
Power Factorization:	9%	46/500 [00:13<02:21, 3.22it/s]
Power Factorization:	9%	47/500 [00:14<02:16, 3.33it/s]
Power Factorization:	10%	48/500 [00:14<02:35, 2.91it/s]
Power Factorization:	10%	49/500 [00:14<02:30, 3.00it/s]
Power Factorization:	10%	50/500 [00:15<02:26, 3.08it/s]
Power Factorization:	10%	51/500 [00:15<02:19, 3.22it/s]
Power Factorization:	10%	52/500 [00:15<02:10, 3.44it/s]
Power Factorization:	11%	53/500 [00:16<02:11, 3.41it/s]
Power Factorization:	11%	54/500 [00:16<02:04, 3.57it/s]
Power Factorization:	11%	55/500 [00:16<02:09, 3.44it/s]
Power Factorization:	11%	56/500 [00:16<02:06, 3.50it/s]
Power Factorization:	11%	57/500 [00:17<02:01, 3.65it/s]
Power Factorization:	12%	58/500 [00:17<02:00, 3.68it/s]
Power Factorization:	12%	59/500 [00:17<01:57, 3.75it/s]
Power Factorization:	12%	60/500 [00:17<01:58, 3.71it/s]
Power Factorization:	12%	61/500 [00:18<02:39, 2.76it/s]
Power Factorization:	12%	62/500 [00:18<02:26, 3.00it/s]
Power Factorization:	13%	63/500 [00:19<02:16, 3.20it/s]
Power Factorization:	13%	64/500 [00:19<02:11, 3.32it/s]
Power Factorization:	13%	65/500 [00:19<02:07, 3.41it/s]
Power Factorization:	13%	66/500 [00:19<02:07, 3.39it/s]

Power Factorization: 13%	67/500 [00:20<02:01, 3.57it/s]
Power Factorization: 14%	68/500 [00:20<01:56, 3.70it/s]
Power Factorization: 14%	69/500 [00:20<01:56, 3.69it/s]
Power Factorization: 14%	70/500 [00:21<02:02, 3.50it/s]
Power Factorization: 14%	71/500 [00:21<01:59, 3.58it/s]
Power Factorization: 14%	72/500 [00:21<01:59, 3.58it/s]
Power Factorization: 15%	73/500 [00:21<01:52, 3.78it/s]
Power Factorization: 15%	74/500 [00:22<01:52, 3.79it/s]
Power Factorization: 15%	75/500 [00:22<01:53, 3.73it/s]
Power Factorization: 15%	76/500 [00:22<01:55, 3.68it/s]
Power Factorization: 15%	77/500 [00:22<02:03, 3.42it/s]
Power Factorization: 16%	78/500 [00:23<01:55, 3.65it/s]
Power Factorization: 16%	79/500 [00:23<01:51, 3.79it/s]
Power Factorization: 16%	80/500 [00:23<01:51, 3.78it/s]
Power Factorization: 16%	81/500 [00:23<01:47, 3.89it/s]
Power Factorization: 16%	82/500 [00:24<01:48, 3.85it/s]
Power Factorization: 17%	83/500 [00:24<01:48, 3.83it/s]
Power Factorization: 17%	84/500 [00:24<01:47, 3.88it/s]
Power Factorization: 17%	85/500 [00:24<01:42, 4.07it/s]
Power Factorization: 17%	86/500 [00:25<01:47, 3.85it/s]
Power Factorization: 17%	87/500 [00:25<01:51, 3.70it/s]
Power Factorization: 18%	88/500 [00:25<01:51, 3.71it/s]
Power Factorization: 18%	89/500 [00:26<01:50, 3.70it/s]
Power Factorization: 18%	90/500 [00:26<01:48, 3.78it/s]

Power Factorization: 18%	91/500 [00:26<01:50, 3.71it/s]
Power Factorization: 18%	92/500 [00:26<01:54, 3.57it/s]
Power Factorization: 19%	93/500 [00:27<01:57, 3.46it/s]
Power Factorization: 19%	94/500 [00:27<01:53, 3.59it/s]
Power Factorization: 19%	95/500 [00:27<01:57, 3.45it/s]
Power Factorization: 19%	96/500 [00:28<02:01, 3.32it/s]
Power Factorization: 19%	97/500 [00:28<02:00, 3.36it/s]
Power Factorization: 20%	98/500 [00:28<01:50, 3.65it/s]
Power Factorization: 20%	99/500 [00:28<01:39, 4.04it/s]
Power Factorization: 20%	100/500 [00:29<01:39, 4.01it/s]
Power Factorization: 20%	101/500 [00:29<01:37, 4.07it/s]
Power Factorization: 20%	102/500 [00:29<01:38, 4.02it/s]
Power Factorization: 21%	103/500 [00:29<01:43, 3.83it/s]
Power Factorization: 21%	104/500 [00:30<01:59, 3.31it/s]
Power Factorization: 21%	105/500 [00:30<02:01, 3.26it/s]
Power Factorization: 21%	106/500 [00:30<01:56, 3.37it/s]
Power Factorization: 21%	107/500 [00:31<01:49, 3.58it/s]
Power Factorization: 22%	108/500 [00:31<01:45, 3.71it/s]
Power Factorization: 22%	109/500 [00:31<01:44, 3.74it/s]
Power Factorization: 22%	110/500 [00:31<01:43, 3.78it/s]
Power Factorization: 22%	111/500 [00:32<01:41, 3.82it/s]
Power Factorization: 22%	112/500 [00:32<01:42, 3.78it/s]
Power Factorization: 23%	113/500 [00:32<01:39, 3.89it/s]
Power Factorization: 23%	114/500 [00:32<01:37, 3.96it/s]

Power Factorization: 23%	115/500 [00:33<01:37, 3.95it/s]
Power Factorization: 23%	116/500 [00:33<01:39, 3.87it/s]
Power Factorization: 23%	117/500 [00:33<01:36, 3.96it/s]
Power Factorization: 24%	118/500 [00:33<01:37, 3.92it/s]
Power Factorization: 24%	119/500 [00:34<01:51, 3.42it/s]
Power Factorization: 24%	120/500 [00:34<01:45, 3.62it/s]
Power Factorization: 24%	121/500 [00:34<01:38, 3.85it/s]
Power Factorization: 24%	122/500 [00:34<01:40, 3.77it/s]
Power Factorization: 25%	123/500 [00:35<01:33, 4.03it/s]
Power Factorization: 25%	124/500 [00:35<01:38, 3.81it/s]
Power Factorization: 25%	125/500 [00:35<01:45, 3.57it/s]
Power Factorization: 25%	126/500 [00:36<01:43, 3.60it/s]
Power Factorization: 25%	127/500 [00:36<01:43, 3.61it/s]
Power Factorization: 26%	128/500 [00:36<01:54, 3.24it/s]
Power Factorization: 26%	129/500 [00:37<01:57, 3.15it/s]
Power Factorization: 26%	130/500 [00:37<01:53, 3.27it/s]
Power Factorization: 26%	131/500 [00:37<01:51, 3.31it/s]
Power Factorization: 26%	132/500 [00:37<01:48, 3.39it/s]
Power Factorization: 27%	133/500 [00:38<01:42, 3.59it/s]
Power Factorization: 27%	134/500 [00:38<01:39, 3.69it/s]
Power Factorization: 27%	135/500 [00:38<01:34, 3.87it/s]
Power Factorization: 27%	136/500 [00:38<01:33, 3.91it/s]
Power Factorization: 27%	137/500 [00:39<01:32, 3.92it/s]
Power Factorization: 28%	138/500 [00:39<01:36, 3.77it/s]

Power Factorization: 28%	139/500 [00:39<01:36, 3.74it/s]
Power Factorization: 28%	140/500 [00:39<01:34, 3.82it/s]
Power Factorization: 28%	141/500 [00:40<01:35, 3.75it/s]
Power Factorization: 28%	142/500 [00:40<01:49, 3.26it/s]
Power Factorization: 29%	143/500 [00:41<02:02, 2.92it/s]
Power Factorization: 29%	144/500 [00:41<01:48, 3.27it/s]
Power Factorization: 29%	145/500 [00:41<01:43, 3.42it/s]
Power Factorization: 29%	146/500 [00:41<01:40, 3.51it/s]
Power Factorization: 29%	147/500 [00:42<01:35, 3.70it/s]
Power Factorization: 30%	148/500 [00:42<01:33, 3.76it/s]
Power Factorization: 30%	149/500 [00:42<01:33, 3.74it/s]
Power Factorization: 30%	150/500 [00:42<01:31, 3.84it/s]
Power Factorization: 30%	151/500 [00:43<01:25, 4.06it/s]
Power Factorization: 30%	152/500 [00:43<01:25, 4.07it/s]
Power Factorization: 31%	153/500 [00:43<01:26, 4.01it/s]
Power Factorization: 31%	154/500 [00:43<01:31, 3.77it/s]
Power Factorization: 31%	155/500 [00:44<01:31, 3.79it/s]
Power Factorization: 31%	156/500 [00:44<01:28, 3.88it/s]
Power Factorization: 31%	157/500 [00:44<01:28, 3.88it/s]
Power Factorization: 32%	158/500 [00:44<01:31, 3.74it/s]
Power Factorization: 32%	159/500 [00:45<01:25, 3.99it/s]
Power Factorization: 32%	160/500 [00:45<01:23, 4.08it/s]
Power Factorization: 32%	161/500 [00:45<01:26, 3.93it/s]
Power Factorization: 32%	162/500 [00:45<01:25, 3.96it/s]

Power Factorization: 33%	163/500 [00:46<01:25, 3.96it/s]
Power Factorization: 33%	164/500 [00:46<01:26, 3.88it/s]
Power Factorization: 33%	165/500 [00:46<01:27, 3.83it/s]
Power Factorization: 33%	166/500 [00:46<01:26, 3.87it/s]
Power Factorization: 33%	167/500 [00:47<01:25, 3.91it/s]
Power Factorization: 34%	168/500 [00:47<01:22, 4.00it/s]
Power Factorization: 34%	169/500 [00:47<01:24, 3.92it/s]
Power Factorization: 34%	170/500 [00:47<01:17, 4.25it/s]
Power Factorization: 34%	171/500 [00:48<01:25, 3.87it/s]
Power Factorization: 34%	172/500 [00:48<01:24, 3.87it/s]
Power Factorization: 35%	173/500 [00:48<01:28, 3.71it/s]
Power Factorization: 35%	174/500 [00:49<01:34, 3.44it/s]
Power Factorization: 35%	175/500 [00:49<01:33, 3.47it/s]
Power Factorization: 35%	176/500 [00:49<01:29, 3.63it/s]
Power Factorization: 35%	177/500 [00:49<01:24, 3.83it/s]
Power Factorization: 36%	178/500 [00:49<01:17, 4.14it/s]
Power Factorization: 36%	179/500 [00:50<01:19, 4.05it/s]
Power Factorization: 36%	180/500 [00:50<01:17, 4.13it/s]
Power Factorization: 36%	181/500 [00:50<01:20, 3.94it/s]
Power Factorization: 36%	182/500 [00:50<01:17, 4.08it/s]
Power Factorization: 37%	183/500 [00:51<01:15, 4.21it/s]
Power Factorization: 37%	184/500 [00:51<01:14, 4.23it/s]
Power Factorization: 37%	185/500 [00:51<01:15, 4.20it/s]
Power Factorization: 37%	186/500 [00:52<01:22, 3.80it/s]

Power Factorization: 37%	187/500 [00:52<01:51, 2.80it/s]
Power Factorization: 38%	188/500 [00:52<01:45, 2.96it/s]
Power Factorization: 38%	189/500 [00:53<01:37, 3.20it/s]
Power Factorization: 38%	190/500 [00:53<01:35, 3.26it/s]
Power Factorization: 38%	191/500 [00:53<01:32, 3.33it/s]
Power Factorization: 38%	192/500 [00:54<01:32, 3.33it/s]
Power Factorization: 39%	193/500 [00:54<01:53, 2.71it/s]
Power Factorization: 39%	194/500 [00:54<01:47, 2.84it/s]
Power Factorization: 39%	195/500 [00:55<01:41, 3.01it/s]
Power Factorization: 39%	196/500 [00:55<01:33, 3.26it/s]
Power Factorization: 39%	197/500 [00:55<01:23, 3.62it/s]
Power Factorization: 40%	198/500 [00:55<01:22, 3.68it/s]
Power Factorization: 40%	199/500 [00:56<01:21, 3.70it/s]
Power Factorization: 40%	200/500 [00:56<01:17, 3.88it/s]
Power Factorization: 40%	201/500 [00:56<01:16, 3.90it/s]
Power Factorization: 40%	202/500 [00:56<01:14, 3.99it/s]
Power Factorization: 41%	203/500 [00:57<01:18, 3.76it/s]
Power Factorization: 41%	204/500 [00:57<01:17, 3.80it/s]
Power Factorization: 41%	205/500 [00:57<01:15, 3.90it/s]
Power Factorization: 41%	206/500 [00:57<01:13, 3.98it/s]
Power Factorization: 41%	207/500 [00:58<01:15, 3.89it/s]
Power Factorization: 42%	208/500 [00:58<01:12, 4.01it/s]
Power Factorization: 42%	209/500 [00:58<01:15, 3.87it/s]
Power Factorization: 42%	210/500 [00:58<01:14, 3.91it/s]

Power Factorization: 42%	211/500 [00:59<01:11, 4.02it/s]
Power Factorization: 42%	212/500 [00:59<01:12, 3.99it/s]
Power Factorization: 43%	213/500 [00:59<01:27, 3.29it/s]
Power Factorization: 43%	214/500 [01:00<01:23, 3.41it/s]
Power Factorization: 43%	215/500 [01:00<01:28, 3.20it/s]
Power Factorization: 43%	216/500 [01:00<01:27, 3.23it/s]
Power Factorization: 43%	217/500 [01:00<01:18, 3.59it/s]
Power Factorization: 44%	218/500 [01:01<01:15, 3.71it/s]
Power Factorization: 44%	219/500 [01:01<01:14, 3.78it/s]
Power Factorization: 44%	220/500 [01:01<01:09, 4.01it/s]
Power Factorization: 44%	221/500 [01:01<01:08, 4.08it/s]
Power Factorization: 44%	222/500 [01:02<01:09, 4.00it/s]
Power Factorization: 45%	223/500 [01:02<01:13, 3.77it/s]
Power Factorization: 45%	224/500 [01:02<01:18, 3.51it/s]
Power Factorization: 45%	225/500 [01:03<01:16, 3.59it/s]
Power Factorization: 45%	226/500 [01:03<01:14, 3.67it/s]
Power Factorization: 45%	227/500 [01:03<01:17, 3.54it/s]
Power Factorization: 46%	228/500 [01:03<01:14, 3.64it/s]
Power Factorization: 46%	229/500 [01:04<01:14, 3.66it/s]
Power Factorization: 46%	230/500 [01:04<01:16, 3.55it/s]
Power Factorization: 46%	231/500 [01:04<01:13, 3.65it/s]
Power Factorization: 46%	232/500 [01:05<01:17, 3.47it/s]
Power Factorization: 47%	233/500 [01:05<01:20, 3.33it/s]
Power Factorization: 47%	234/500 [01:05<01:16, 3.46it/s]

Power Factorization: 47%	235/500 [01:05<01:16, 3.48it/s]
Power Factorization: 47%	236/500 [01:06<01:14, 3.56it/s]
Power Factorization: 47%	237/500 [01:06<01:16, 3.43it/s]
Power Factorization: 48%	238/500 [01:06<01:15, 3.48it/s]
Power Factorization: 48%	239/500 [01:07<01:15, 3.45it/s]
Power Factorization: 48%	240/500 [01:07<01:16, 3.40it/s]
Power Factorization: 48%	241/500 [01:07<01:17, 3.34it/s]
Power Factorization: 48%	242/500 [01:08<01:33, 2.76it/s]
Power Factorization: 49%	243/500 [01:08<01:33, 2.75it/s]
Power Factorization: 49%	244/500 [01:08<01:23, 3.06it/s]
Power Factorization: 49%	245/500 [01:09<01:18, 3.25it/s]
Power Factorization: 49%	246/500 [01:09<01:16, 3.34it/s]
Power Factorization: 49%	247/500 [01:09<01:20, 3.16it/s]
Power Factorization: 50%	248/500 [01:10<01:20, 3.12it/s]
Power Factorization: 50%	249/500 [01:10<01:17, 3.23it/s]
Power Factorization: 50%	250/500 [01:10<01:17, 3.24it/s]
Power Factorization: 50%	251/500 [01:10<01:18, 3.18it/s]
Power Factorization: 50%	252/500 [01:11<01:23, 2.97it/s]
Power Factorization: 51%	253/500 [01:11<01:18, 3.15it/s]
Power Factorization: 51%	254/500 [01:11<01:17, 3.17it/s]
Power Factorization: 51%	255/500 [01:12<01:22, 2.96it/s]
Power Factorization: 51%	256/500 [01:12<01:17, 3.16it/s]
Power Factorization: 51%	257/500 [01:12<01:20, 3.01it/s]
Power Factorization: 52%	258/500 [01:13<01:14, 3.24it/s]

Power Factorization: 52%	259/500 [01:13<01:10, 3.44it/s]
Power Factorization: 52%	260/500 [01:13<01:06, 3.59it/s]
Power Factorization: 52%	261/500 [01:13<01:04, 3.69it/s]
Power Factorization: 52%	262/500 [01:14<01:20, 2.95it/s]
Power Factorization: 53%	263/500 [01:14<01:23, 2.83it/s]
Power Factorization: 53%	264/500 [01:15<01:19, 2.98it/s]
Power Factorization: 53%	265/500 [01:15<01:17, 3.03it/s]
Power Factorization: 53%	266/500 [01:15<01:13, 3.19it/s]
Power Factorization: 53%	267/500 [01:16<01:21, 2.87it/s]
Power Factorization: 54%	268/500 [01:16<01:20, 2.89it/s]
Power Factorization: 54%	269/500 [01:16<01:14, 3.10it/s]
Power Factorization: 54%	270/500 [01:17<01:12, 3.15it/s]
Power Factorization: 54%	271/500 [01:17<01:09, 3.31it/s]
Power Factorization: 54%	272/500 [01:17<01:15, 3.02it/s]
Power Factorization: 55%	273/500 [01:18<01:16, 2.97it/s]
Power Factorization: 55%	274/500 [01:18<01:11, 3.15it/s]
Power Factorization: 55%	275/500 [01:18<01:11, 3.16it/s]
Power Factorization: 55%	276/500 [01:18<01:08, 3.25it/s]
Power Factorization: 55%	277/500 [01:19<01:05, 3.40it/s]
Power Factorization: 56%	278/500 [01:19<01:10, 3.14it/s]
Power Factorization: 56%	279/500 [01:19<01:09, 3.18it/s]
Power Factorization: 56%	280/500 [01:20<01:06, 3.30it/s]
Power Factorization: 56%	281/500 [01:20<01:18, 2.81it/s]
Power Factorization: 56%	282/500 [01:20<01:15, 2.89it/s]

Power Factorization: 57%	283/500 [01:21<01:11, 3.04it/s]
Power Factorization: 57%	284/500 [01:21<01:08, 3.16it/s]
Power Factorization: 57%	285/500 [01:21<01:07, 3.20it/s]
Power Factorization: 57%	286/500 [01:22<01:07, 3.17it/s]
Power Factorization: 57%	287/500 [01:22<01:07, 3.14it/s]
Power Factorization: 58%	288/500 [01:22<01:04, 3.29it/s]
Power Factorization: 58%	289/500 [01:23<01:01, 3.44it/s]
Power Factorization: 58%	290/500 [01:23<01:01, 3.42it/s]
Power Factorization: 58%	291/500 [01:23<01:21, 2.56it/s]
Power Factorization: 58%	292/500 [01:24<01:16, 2.71it/s]
Power Factorization: 59%	293/500 [01:24<01:15, 2.75it/s]
Power Factorization: 59%	294/500 [01:24<01:11, 2.89it/s]
Power Factorization: 59%	295/500 [01:25<01:05, 3.11it/s]
Power Factorization: 59%	296/500 [01:25<01:06, 3.06it/s]
Power Factorization: 59%	297/500 [01:25<01:03, 3.19it/s]
Power Factorization: 60%	298/500 [01:26<01:01, 3.30it/s]
Power Factorization: 60%	299/500 [01:26<00:58, 3.42it/s]
Power Factorization: 60%	300/500 [01:26<00:59, 3.37it/s]
Power Factorization: 60%	301/500 [01:26<00:57, 3.46it/s]
Power Factorization: 60%	302/500 [01:27<00:59, 3.33it/s]
Power Factorization: 61%	303/500 [01:27<00:58, 3.36it/s]
Power Factorization: 61%	304/500 [01:27<00:59, 3.31it/s]
Power Factorization: 61%	305/500 [01:28<00:59, 3.28it/s]
Power Factorization: 61%	306/500 [01:28<00:57, 3.39it/s]

Power Factorization: 61%	307/500 [01:28<00:56, 3.40it/s]
Power Factorization: 62%	308/500 [01:29<00:56, 3.38it/s]
Power Factorization: 62%	309/500 [01:29<00:51, 3.72it/s]
Power Factorization: 62%	310/500 [01:29<01:01, 3.10it/s]
Power Factorization: 62%	311/500 [01:29<00:59, 3.18it/s]
Power Factorization: 62%	312/500 [01:30<01:05, 2.85it/s]
Power Factorization: 63%	313/500 [01:30<00:59, 3.14it/s]
Power Factorization: 63%	314/500 [01:30<00:58, 3.20it/s]
Power Factorization: 63%	315/500 [01:31<00:54, 3.38it/s]
Power Factorization: 63%	316/500 [01:31<00:52, 3.48it/s]
Power Factorization: 63%	317/500 [01:31<00:54, 3.38it/s]
Power Factorization: 64%	318/500 [01:32<00:50, 3.64it/s]
Power Factorization: 64%	319/500 [01:32<00:50, 3.59it/s]
Power Factorization: 64%	320/500 [01:32<00:51, 3.52it/s]
Power Factorization: 64%	321/500 [01:32<00:53, 3.37it/s]
Power Factorization: 64%	322/500 [01:33<00:51, 3.44it/s]
Power Factorization: 65%	323/500 [01:33<00:53, 3.29it/s]
Power Factorization: 65%	324/500 [01:33<00:55, 3.17it/s]
Power Factorization: 65%	325/500 [01:34<00:56, 3.08it/s]
Power Factorization: 65%	326/500 [01:34<00:56, 3.06it/s]
Power Factorization: 65%	327/500 [01:34<00:53, 3.25it/s]
Power Factorization: 66%	328/500 [01:35<00:51, 3.37it/s]
Power Factorization: 66%	329/500 [01:35<00:48, 3.54it/s]
Power Factorization: 66%	330/500 [01:35<00:47, 3.59it/s]

Power Factorization: 66%	331/500 [01:35<00:48, 3.46it/s]
Power Factorization: 66%	332/500 [01:36<00:46, 3.57it/s]
Power Factorization: 67%	333/500 [01:36<00:47, 3.54it/s]
Power Factorization: 67%	334/500 [01:36<00:46, 3.55it/s]
Power Factorization: 67%	335/500 [01:37<00:46, 3.55it/s]
Power Factorization: 67%	336/500 [01:37<00:44, 3.68it/s]
Power Factorization: 67%	337/500 [01:37<00:47, 3.42it/s]
Power Factorization: 68%	338/500 [01:37<00:47, 3.42it/s]
Power Factorization: 68%	339/500 [01:38<00:44, 3.58it/s]
Power Factorization: 68%	340/500 [01:38<00:43, 3.66it/s]
Power Factorization: 68%	341/500 [01:38<00:43, 3.68it/s]
Power Factorization: 68%	342/500 [01:38<00:42, 3.76it/s]
Power Factorization: 69%	343/500 [01:39<00:40, 3.85it/s]
Power Factorization: 69%	344/500 [01:39<00:43, 3.63it/s]
Power Factorization: 69%	345/500 [01:39<00:41, 3.78it/s]
Power Factorization: 69%	346/500 [01:40<00:47, 3.27it/s]
Power Factorization: 69%	347/500 [01:40<00:51, 2.97it/s]
Power Factorization: 70%	348/500 [01:40<00:47, 3.21it/s]
Power Factorization: 70%	349/500 [01:41<00:43, 3.48it/s]
Power Factorization: 70%	350/500 [01:41<00:39, 3.79it/s]
Power Factorization: 70%	351/500 [01:41<00:42, 3.53it/s]
Power Factorization: 70%	352/500 [01:41<00:41, 3.55it/s]
Power Factorization: 71%	353/500 [01:42<00:39, 3.71it/s]
Power Factorization: 71%	354/500 [01:42<00:37, 3.88it/s]

Power Factorization: 71%	355/500 [01:42<00:37, 3.86it/s]
Power Factorization: 71%	356/500 [01:42<00:36, 3.95it/s]
Power Factorization: 71%	357/500 [01:43<00:37, 3.86it/s]
Power Factorization: 72%	358/500 [01:43<00:35, 3.96it/s]
Power Factorization: 72%	359/500 [01:43<00:37, 3.78it/s]
Power Factorization: 72%	360/500 [01:43<00:36, 3.85it/s]
Power Factorization: 72%	361/500 [01:44<00:33, 4.15it/s]
Power Factorization: 72%	362/500 [01:44<00:33, 4.16it/s]
Power Factorization: 73%	363/500 [01:44<00:34, 3.93it/s]
Power Factorization: 73%	364/500 [01:44<00:34, 3.96it/s]
Power Factorization: 73%	365/500 [01:45<00:35, 3.79it/s]
Power Factorization: 73%	366/500 [01:45<00:37, 3.62it/s]
Power Factorization: 73%	367/500 [01:45<00:36, 3.67it/s]
Power Factorization: 74%	368/500 [01:45<00:34, 3.83it/s]
Power Factorization: 74%	369/500 [01:46<00:33, 3.89it/s]
Power Factorization: 74%	370/500 [01:46<00:31, 4.09it/s]
Power Factorization: 74%	371/500 [01:46<00:32, 4.00it/s]
Power Factorization: 74%	372/500 [01:46<00:32, 3.91it/s]
Power Factorization: 75%	373/500 [01:47<00:33, 3.84it/s]
Power Factorization: 75%	374/500 [01:47<00:32, 3.83it/s]
Power Factorization: 75%	375/500 [01:47<00:32, 3.81it/s]
Power Factorization: 75%	376/500 [01:48<00:33, 3.74it/s]
Power Factorization: 75%	377/500 [01:48<00:36, 3.33it/s]
Power Factorization: 76%	378/500 [01:48<00:34, 3.57it/s]

Power Factorization: 76%	379/500 [01:48<00:32,	3.76it/s]
Power Factorization: 76%	380/500 [01:49<00:30,	3.90it/s]
Power Factorization: 76%	381/500 [01:49<00:29,	4.07it/s]
Power Factorization: 76%	382/500 [01:49<00:28,	4.07it/s]
Power Factorization: 77%	383/500 [01:49<00:30,	3.85it/s]
Power Factorization: 77%	384/500 [01:50<00:31,	3.65it/s]
Power Factorization: 77%	385/500 [01:50<00:30,	3.75it/s]
Power Factorization: 77%	386/500 [01:50<00:29,	3.88it/s]
Power Factorization: 77%	387/500 [01:50<00:28,	3.97it/s]
Power Factorization: 78%	388/500 [01:51<00:27,	4.06it/s]
Power Factorization: 78%	389/500 [01:51<00:27,	3.99it/s]
Power Factorization: 78%	390/500 [01:51<00:29,	3.71it/s]
Power Factorization: 78%	391/500 [01:51<00:29,	3.76it/s]
Power Factorization: 78%	392/500 [01:52<00:29,	3.68it/s]
Power Factorization: 79%	393/500 [01:52<00:27,	3.92it/s]
Power Factorization: 79%	394/500 [01:52<00:28,	3.77it/s]
Power Factorization: 79%	395/500 [01:53<00:27,	3.78it/s]
Power Factorization: 79%	396/500 [01:53<00:28,	3.71it/s]
Power Factorization: 79%	397/500 [01:53<00:27,	3.78it/s]
Power Factorization: 80%	398/500 [01:53<00:27,	3.71it/s]
Power Factorization: 80%	399/500 [01:54<00:26,	3.76it/s]
Power Factorization: 80%	400/500 [01:54<00:28,	3.48it/s]
Power Factorization: 80%	401/500 [01:54<00:30,	3.27it/s]
Power Factorization: 80%	402/500 [01:55<00:29,	3.34it/s]

Power Factorization: 81%	403/500	[01:55<00:29, 3.30it/s]
Power Factorization: 81%	404/500	[01:55<00:27, 3.49it/s]
Power Factorization: 81%	405/500	[01:55<00:27, 3.45it/s]
Power Factorization: 81%	406/500	[01:56<00:26, 3.54it/s]
Power Factorization: 81%	407/500	[01:56<00:25, 3.68it/s]
Power Factorization: 82%	408/500	[01:56<00:24, 3.78it/s]
Power Factorization: 82%	409/500	[01:56<00:24, 3.75it/s]
Power Factorization: 82%	410/500	[01:57<00:25, 3.55it/s]
Power Factorization: 82%	411/500	[01:57<00:24, 3.59it/s]
Power Factorization: 82%	412/500	[01:57<00:25, 3.41it/s]
Power Factorization: 83%	413/500	[01:58<00:24, 3.53it/s]
Power Factorization: 83%	414/500	[01:58<00:24, 3.44it/s]
Power Factorization: 83%	415/500	[01:58<00:24, 3.41it/s]
Power Factorization: 83%	416/500	[01:59<00:24, 3.40it/s]
Power Factorization: 83%	417/500	[01:59<00:23, 3.47it/s]
Power Factorization: 84%	418/500	[01:59<00:23, 3.42it/s]
Power Factorization: 84%	419/500	[01:59<00:24, 3.32it/s]
Power Factorization: 84%	420/500	[02:00<00:23, 3.43it/s]
Power Factorization: 84%	421/500	[02:00<00:22, 3.44it/s]
Power Factorization: 84%	422/500	[02:00<00:24, 3.17it/s]
Power Factorization: 85%	423/500	[02:01<00:23, 3.30it/s]
Power Factorization: 85%	424/500	[02:01<00:22, 3.43it/s]
Power Factorization: 85%	425/500	[02:01<00:21, 3.47it/s]
Power Factorization: 85%	426/500	[02:01<00:20, 3.58it/s]

Power Factorization: 85%	427/500 [02:02<00:19,	3.68it/s]
Power Factorization: 86%	428/500 [02:02<00:20,	3.47it/s]
Power Factorization: 86%	429/500 [02:02<00:20,	3.52it/s]
Power Factorization: 86%	430/500 [02:03<00:20,	3.33it/s]
Power Factorization: 86%	431/500 [02:03<00:20,	3.35it/s]
Power Factorization: 86%	432/500 [02:03<00:19,	3.43it/s]
Power Factorization: 87%	433/500 [02:04<00:20,	3.24it/s]
Power Factorization: 87%	434/500 [02:04<00:22,	2.93it/s]
Power Factorization: 87%	435/500 [02:04<00:20,	3.10it/s]
Power Factorization: 87%	436/500 [02:05<00:20,	3.12it/s]
Power Factorization: 87%	437/500 [02:05<00:19,	3.18it/s]
Power Factorization: 88%	438/500 [02:05<00:18,	3.30it/s]
Power Factorization: 88%	439/500 [02:06<00:19,	3.09it/s]
Power Factorization: 88%	440/500 [02:06<00:20,	2.99it/s]
Power Factorization: 88%	441/500 [02:06<00:20,	2.88it/s]
Power Factorization: 88%	442/500 [02:07<00:19,	3.03it/s]
Power Factorization: 89%	443/500 [02:07<00:17,	3.21it/s]
Power Factorization: 89%	444/500 [02:07<00:16,	3.40it/s]
Power Factorization: 89%	445/500 [02:07<00:16,	3.26it/s]
Power Factorization: 89%	446/500 [02:08<00:16,	3.35it/s]
Power Factorization: 89%	447/500 [02:08<00:14,	3.55it/s]
Power Factorization: 90%	448/500 [02:08<00:14,	3.53it/s]
Power Factorization: 90%	449/500 [02:09<00:15,	3.35it/s]
Power Factorization: 90%	450/500 [02:09<00:14,	3.50it/s]

Power Factorization: 90%	451/500 [02:09<00:14,	3.50it/s]
Power Factorization: 90%	452/500 [02:09<00:14,	3.38it/s]
Power Factorization: 91%	453/500 [02:10<00:13,	3.42it/s]
Power Factorization: 91%	454/500 [02:10<00:14,	3.25it/s]
Power Factorization: 91%	455/500 [02:10<00:14,	3.10it/s]
Power Factorization: 91%	456/500 [02:11<00:13,	3.25it/s]
Power Factorization: 91%	457/500 [02:11<00:12,	3.31it/s]
Power Factorization: 92%	458/500 [02:11<00:12,	3.28it/s]
Power Factorization: 92%	459/500 [02:12<00:12,	3.30it/s]
Power Factorization: 92%	460/500 [02:12<00:11,	3.48it/s]
Power Factorization: 92%	461/500 [02:12<00:10,	3.57it/s]
Power Factorization: 92%	462/500 [02:12<00:11,	3.29it/s]
Power Factorization: 93%	463/500 [02:13<00:11,	3.16it/s]
Power Factorization: 93%	464/500 [02:13<00:10,	3.36it/s]
Power Factorization: 93%	465/500 [02:13<00:10,	3.45it/s]
Power Factorization: 93%	466/500 [02:14<00:09,	3.49it/s]
Power Factorization: 93%	467/500 [02:14<00:09,	3.52it/s]
Power Factorization: 94%	468/500 [02:14<00:09,	3.48it/s]
Power Factorization: 94%	469/500 [02:14<00:09,	3.43it/s]
Power Factorization: 94%	470/500 [02:15<00:09,	3.30it/s]
Power Factorization: 94%	471/500 [02:15<00:08,	3.25it/s]
Power Factorization: 94%	472/500 [02:15<00:08,	3.18it/s]
Power Factorization: 95%	473/500 [02:16<00:08,	3.03it/s]
Power Factorization: 95%	474/500 [02:16<00:09,	2.77it/s]

Power Factorization: 95%	475/500 [02:17<00:12, 2.05it/s]
Power Factorization: 95%	476/500 [02:18<00:13, 1.83it/s]
Power Factorization: 95%	477/500 [02:18<00:11, 2.05it/s]
Power Factorization: 96%	478/500 [02:18<00:09, 2.29it/s]
Power Factorization: 96%	479/500 [02:19<00:08, 2.35it/s]
Power Factorization: 96%	480/500 [02:19<00:07, 2.56it/s]
Power Factorization: 96%	481/500 [02:19<00:07, 2.62it/s]
Power Factorization: 96%	482/500 [02:20<00:06, 2.70it/s]
Power Factorization: 97%	483/500 [02:20<00:06, 2.73it/s]
Power Factorization: 97%	484/500 [02:20<00:05, 2.78it/s]
Power Factorization: 97%	485/500 [02:21<00:05, 2.75it/s]
Power Factorization: 97%	486/500 [02:21<00:05, 2.58it/s]
Power Factorization: 97%	487/500 [02:22<00:04, 2.63it/s]
Power Factorization: 98%	488/500 [02:22<00:04, 2.79it/s]
Power Factorization: 98%	489/500 [02:22<00:03, 2.82it/s]
Power Factorization: 98%	490/500 [02:23<00:04, 2.19it/s]
Power Factorization: 98%	491/500 [02:23<00:03, 2.29it/s]
Power Factorization: 98%	492/500 [02:24<00:03, 2.45it/s]
Power Factorization: 99%	493/500 [02:24<00:02, 2.58it/s]
Power Factorization: 99%	494/500 [02:24<00:02, 2.67it/s]
Power Factorization: 99%	495/500 [02:25<00:01, 2.80it/s]
Power Factorization: 99%	496/500 [02:25<00:01, 2.53it/s]
Power Factorization: 99%	497/500 [02:26<00:01, 2.51it/s]
Power Factorization: 100%	498/500 [02:26<00:00, 2.59it/s]

Power Factorization: 100%	499/500 [02:26<00:00, 2.74it/s]
Power Factorization: 100%	500/500 [02:27<00:00, 3.40it/s]
Cross Validation: 40%	2/5 [04:43<07:07, 142.67s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:36, 3.19it/s]
Power Factorization: 0%	2/500 [00:00<02:53, 2.87it/s]
Power Factorization: 1%	3/500 [00:00<02:44, 3.03it/s]
Power Factorization: 1%	4/500 [00:01<02:38, 3.12it/s]
Power Factorization: 1%	5/500 [00:01<02:40, 3.09it/s]
Power Factorization: 1%	6/500 [00:01<02:40, 3.09it/s]
Power Factorization: 1%	7/500 [00:02<02:37, 3.14it/s]
Power Factorization: 2%	8/500 [00:02<02:40, 3.06it/s]
Power Factorization: 2%	9/500 [00:02<02:41, 3.05it/s]
Power Factorization: 2%	10/500 [00:03<02:43, 3.00it/s]
Power Factorization: 2%	11/500 [00:03<02:44, 2.97it/s]
Power Factorization: 2%	12/500 [00:03<02:43, 2.99it/s]
Power Factorization: 3%	13/500 [00:04<02:43, 2.99it/s]
Power Factorization: 3%	14/500 [00:04<02:41, 3.02it/s]
Power Factorization: 3%	15/500 [00:04<02:47, 2.89it/s]
Power Factorization: 3%	16/500 [00:05<02:54, 2.78it/s]
Power Factorization: 3%	17/500 [00:05<02:47, 2.89it/s]
Power Factorization: 4%	18/500 [00:06<02:45, 2.91it/s]
Power Factorization: 4%	19/500 [00:06<02:41, 2.98it/s]
Power Factorization: 4%	20/500 [00:06<02:38, 3.03it/s]

Power Factorization:	4%	21/500	[00:07<02:39, 3.01it/s]
Power Factorization:	4%	22/500	[00:07<02:39, 3.00it/s]
Power Factorization:	5%	23/500	[00:07<02:36, 3.05it/s]
Power Factorization:	5%	24/500	[00:07<02:36, 3.03it/s]
Power Factorization:	5%	25/500	[00:08<02:49, 2.81it/s]
Power Factorization:	5%	26/500	[00:08<02:58, 2.66it/s]
Power Factorization:	5%	27/500	[00:09<02:57, 2.67it/s]
Power Factorization:	6%	28/500	[00:09<02:50, 2.77it/s]
Power Factorization:	6%	29/500	[00:09<02:54, 2.70it/s]
Power Factorization:	6%	30/500	[00:10<02:56, 2.67it/s]
Power Factorization:	6%	31/500	[00:10<02:56, 2.65it/s]
Power Factorization:	6%	32/500	[00:11<02:59, 2.61it/s]
Power Factorization:	7%	33/500	[00:11<02:53, 2.70it/s]
Power Factorization:	7%	34/500	[00:11<02:49, 2.75it/s]
Power Factorization:	7%	35/500	[00:12<02:50, 2.73it/s]
Power Factorization:	7%	36/500	[00:12<02:49, 2.73it/s]
Power Factorization:	7%	37/500	[00:12<02:52, 2.69it/s]
Power Factorization:	8%	38/500	[00:13<02:49, 2.73it/s]
Power Factorization:	8%	39/500	[00:13<02:45, 2.78it/s]
Power Factorization:	8%	40/500	[00:13<02:43, 2.81it/s]
Power Factorization:	8%	41/500	[00:14<02:43, 2.80it/s]
Power Factorization:	8%	42/500	[00:14<02:59, 2.56it/s]
Power Factorization:	9%	43/500	[00:15<03:04, 2.48it/s]
Power Factorization:	9%	44/500	[00:15<03:03, 2.48it/s]

Power Factorization:	9%	45/500 [00:15<02:55, 2.60it/s]
Power Factorization:	9%	46/500 [00:16<02:52, 2.64it/s]
Power Factorization:	9%	47/500 [00:16<02:54, 2.60it/s]
Power Factorization:	10%	48/500 [00:17<02:53, 2.61it/s]
Power Factorization:	10%	49/500 [00:17<02:49, 2.65it/s]
Power Factorization:	10%	50/500 [00:17<02:45, 2.72it/s]
Power Factorization:	10%	51/500 [00:18<02:42, 2.77it/s]
Power Factorization:	10%	52/500 [00:18<02:40, 2.80it/s]
Power Factorization:	11%	53/500 [00:18<02:38, 2.83it/s]
Power Factorization:	11%	54/500 [00:19<02:38, 2.81it/s]
Power Factorization:	11%	55/500 [00:19<02:40, 2.78it/s]
Power Factorization:	11%	56/500 [00:19<02:37, 2.82it/s]
Power Factorization:	11%	57/500 [00:20<02:35, 2.84it/s]
Power Factorization:	12%	58/500 [00:20<02:36, 2.83it/s]
Power Factorization:	12%	59/500 [00:20<02:37, 2.81it/s]
Power Factorization:	12%	60/500 [00:21<02:34, 2.84it/s]
Power Factorization:	12%	61/500 [00:21<02:35, 2.82it/s]
Power Factorization:	12%	62/500 [00:22<02:35, 2.81it/s]
Power Factorization:	13%	63/500 [00:22<02:38, 2.76it/s]
Power Factorization:	13%	64/500 [00:22<02:47, 2.61it/s]
Power Factorization:	13%	65/500 [00:23<02:48, 2.58it/s]
Power Factorization:	13%	66/500 [00:23<02:48, 2.57it/s]
Power Factorization:	13%	67/500 [00:24<02:47, 2.59it/s]
Power Factorization:	14%	68/500 [00:24<02:47, 2.59it/s]

Power Factorization: 14%	69/500 [00:24<02:48,	2.56it/s]
Power Factorization: 14%	70/500 [00:25<02:45,	2.59it/s]
Power Factorization: 14%	71/500 [00:25<02:44,	2.61it/s]
Power Factorization: 14%	72/500 [00:25<02:45,	2.58it/s]
Power Factorization: 15%	73/500 [00:26<02:52,	2.48it/s]
Power Factorization: 15%	74/500 [00:26<02:50,	2.50it/s]
Power Factorization: 15%	75/500 [00:27<02:49,	2.51it/s]
Power Factorization: 15%	76/500 [00:27<02:52,	2.46it/s]
Power Factorization: 15%	77/500 [00:27<02:48,	2.51it/s]
Power Factorization: 16%	78/500 [00:28<02:48,	2.50it/s]
Power Factorization: 16%	79/500 [00:28<02:48,	2.50it/s]
Power Factorization: 16%	80/500 [00:29<02:46,	2.52it/s]
Power Factorization: 16%	81/500 [00:29<02:43,	2.56it/s]
Power Factorization: 16%	82/500 [00:29<02:44,	2.55it/s]
Power Factorization: 17%	83/500 [00:30<02:46,	2.50it/s]
Power Factorization: 17%	84/500 [00:30<02:46,	2.50it/s]
Power Factorization: 17%	85/500 [00:31<02:46,	2.49it/s]
Power Factorization: 17%	86/500 [00:31<02:46,	2.48it/s]
Power Factorization: 17%	87/500 [00:31<02:45,	2.50it/s]
Power Factorization: 18%	88/500 [00:32<02:41,	2.54it/s]
Power Factorization: 18%	89/500 [00:32<02:45,	2.49it/s]
Power Factorization: 18%	90/500 [00:33<02:43,	2.51it/s]
Power Factorization: 18%	91/500 [00:33<02:41,	2.54it/s]
Power Factorization: 18%	92/500 [00:33<02:41,	2.52it/s]

Power Factorization: 19%	93/500 [00:34<02:43, 2.49it/s]
Power Factorization: 19%	94/500 [00:34<02:43, 2.49it/s]
Power Factorization: 19%	95/500 [00:35<02:40, 2.53it/s]
Power Factorization: 19%	96/500 [00:35<02:39, 2.54it/s]
Power Factorization: 19%	97/500 [00:35<02:37, 2.56it/s]
Power Factorization: 20%	98/500 [00:36<02:35, 2.58it/s]
Power Factorization: 20%	99/500 [00:36<02:46, 2.41it/s]
Power Factorization: 20%	100/500 [00:37<02:42, 2.47it/s]
Power Factorization: 20%	101/500 [00:37<02:39, 2.50it/s]
Power Factorization: 20%	102/500 [00:37<02:39, 2.50it/s]
Power Factorization: 21%	103/500 [00:38<02:38, 2.50it/s]
Power Factorization: 21%	104/500 [00:38<02:40, 2.47it/s]
Power Factorization: 21%	105/500 [00:39<02:40, 2.46it/s]
Power Factorization: 21%	106/500 [00:39<02:39, 2.47it/s]
Power Factorization: 21%	107/500 [00:40<02:42, 2.42it/s]
Power Factorization: 22%	108/500 [00:40<02:44, 2.39it/s]
Power Factorization: 22%	109/500 [00:40<02:42, 2.41it/s]
Power Factorization: 22%	110/500 [00:41<02:43, 2.38it/s]
Power Factorization: 22%	111/500 [00:41<02:44, 2.36it/s]
Power Factorization: 22%	112/500 [00:42<02:43, 2.37it/s]
Power Factorization: 23%	113/500 [00:42<02:46, 2.32it/s]
Power Factorization: 23%	114/500 [00:43<02:50, 2.27it/s]
Power Factorization: 23%	115/500 [00:43<02:53, 2.22it/s]
Power Factorization: 23%	116/500 [00:44<03:13, 1.99it/s]

Power Factorization: 23%	117/500 [00:44<03:09, 2.03it/s]
Power Factorization: 24%	118/500 [00:45<03:14, 1.96it/s]
Power Factorization: 24%	119/500 [00:45<03:11, 1.99it/s]
Power Factorization: 24%	120/500 [00:46<03:02, 2.08it/s]
Power Factorization: 24%	121/500 [00:46<02:58, 2.12it/s]
Power Factorization: 24%	122/500 [00:46<02:51, 2.20it/s]
Power Factorization: 25%	123/500 [00:47<02:51, 2.20it/s]
Power Factorization: 25%	124/500 [00:47<02:50, 2.21it/s]
Power Factorization: 25%	125/500 [00:48<02:49, 2.22it/s]
Power Factorization: 25%	126/500 [00:48<02:47, 2.23it/s]
Power Factorization: 25%	127/500 [00:49<02:44, 2.26it/s]
Power Factorization: 26%	128/500 [00:49<02:44, 2.27it/s]
Power Factorization: 26%	129/500 [00:50<02:41, 2.30it/s]
Power Factorization: 26%	130/500 [00:50<02:36, 2.36it/s]
Power Factorization: 26%	131/500 [00:50<02:35, 2.37it/s]
Power Factorization: 26%	132/500 [00:51<02:35, 2.36it/s]
Power Factorization: 27%	133/500 [00:51<02:46, 2.20it/s]
Power Factorization: 27%	134/500 [00:52<03:03, 2.00it/s]
Power Factorization: 27%	135/500 [00:52<03:00, 2.02it/s]
Power Factorization: 27%	136/500 [00:53<02:58, 2.03it/s]
Power Factorization: 27%	137/500 [00:53<02:55, 2.06it/s]
Power Factorization: 28%	138/500 [00:54<03:00, 2.00it/s]
Power Factorization: 28%	139/500 [00:54<03:02, 1.98it/s]
Power Factorization: 28%	140/500 [00:55<03:27, 1.74it/s]

Power Factorization: 28%	141/500 [00:56<03:17, 1.82it/s]
Power Factorization: 28%	142/500 [00:56<03:17, 1.82it/s]
Power Factorization: 29%	143/500 [00:57<03:15, 1.82it/s]
Power Factorization: 29%	144/500 [00:57<03:23, 1.75it/s]
Power Factorization: 29%	145/500 [00:58<03:21, 1.76it/s]
Power Factorization: 29%	146/500 [00:59<03:30, 1.68it/s]
Power Factorization: 29%	147/500 [00:59<03:11, 1.84it/s]
Power Factorization: 30%	148/500 [01:00<03:08, 1.86it/s]
Power Factorization: 30%	149/500 [01:00<03:03, 1.91it/s]
Power Factorization: 30%	150/500 [01:01<03:34, 1.63it/s]
Power Factorization: 30%	151/500 [01:01<03:18, 1.76it/s]
Power Factorization: 30%	152/500 [01:02<03:05, 1.88it/s]
Power Factorization: 31%	153/500 [01:02<02:58, 1.94it/s]
Power Factorization: 31%	154/500 [01:03<03:08, 1.84it/s]
Power Factorization: 31%	155/500 [01:03<03:00, 1.91it/s]
Power Factorization: 31%	156/500 [01:04<02:54, 1.97it/s]
Power Factorization: 31%	157/500 [01:04<03:03, 1.87it/s]
Power Factorization: 32%	158/500 [01:05<03:28, 1.64it/s]
Power Factorization: 32%	159/500 [01:06<03:45, 1.51it/s]
Power Factorization: 32%	160/500 [01:06<03:29, 1.62it/s]
Power Factorization: 32%	161/500 [01:07<03:13, 1.75it/s]
Power Factorization: 32%	162/500 [01:08<03:20, 1.69it/s]
Power Factorization: 33%	163/500 [01:08<03:22, 1.66it/s]
Power Factorization: 33%	164/500 [01:09<03:10, 1.76it/s]

Power Factorization: 33%	165/500 [01:09<02:55,	1.90it/s]
Power Factorization: 33%	166/500 [01:10<02:53,	1.92it/s]
Power Factorization: 33%	167/500 [01:11<03:45,	1.48it/s]
Power Factorization: 34%	168/500 [01:11<03:26,	1.61it/s]
Power Factorization: 34%	169/500 [01:12<03:20,	1.65it/s]
Power Factorization: 34%	170/500 [01:12<03:04,	1.79it/s]
Power Factorization: 34%	171/500 [01:13<02:54,	1.89it/s]
Power Factorization: 34%	172/500 [01:13<03:04,	1.78it/s]
Power Factorization: 35%	173/500 [01:14<03:03,	1.78it/s]
Power Factorization: 35%	174/500 [01:14<02:57,	1.83it/s]
Power Factorization: 35%	175/500 [01:15<02:52,	1.89it/s]
Power Factorization: 35%	176/500 [01:15<02:45,	1.96it/s]
Power Factorization: 35%	177/500 [01:16<02:37,	2.04it/s]
Power Factorization: 36%	178/500 [01:16<02:35,	2.08it/s]
Power Factorization: 36%	179/500 [01:17<02:46,	1.93it/s]
Power Factorization: 36%	180/500 [01:17<02:44,	1.95it/s]
Power Factorization: 36%	181/500 [01:18<02:36,	2.04it/s]
Power Factorization: 36%	182/500 [01:18<02:40,	1.98it/s]
Power Factorization: 37%	183/500 [01:19<02:40,	1.98it/s]
Power Factorization: 37%	184/500 [01:19<02:37,	2.01it/s]
Power Factorization: 37%	185/500 [01:20<02:37,	2.00it/s]
Power Factorization: 37%	186/500 [01:20<02:36,	2.00it/s]
Power Factorization: 37%	187/500 [01:21<02:33,	2.04it/s]
Power Factorization: 38%	188/500 [01:21<02:33,	2.03it/s]

Power Factorization: 38%	189/500 [01:22<02:31, 2.06it/s]
Power Factorization: 38%	190/500 [01:22<02:28, 2.09it/s]
Power Factorization: 38%	191/500 [01:23<02:29, 2.07it/s]
Power Factorization: 38%	192/500 [01:23<02:29, 2.06it/s]
Power Factorization: 39%	193/500 [01:24<02:32, 2.01it/s]
Power Factorization: 39%	194/500 [01:24<02:28, 2.06it/s]
Power Factorization: 39%	195/500 [01:25<02:36, 1.95it/s]
Power Factorization: 39%	196/500 [01:25<02:33, 1.98it/s]
Power Factorization: 39%	197/500 [01:26<02:31, 2.00it/s]
Power Factorization: 40%	198/500 [01:26<02:28, 2.03it/s]
Power Factorization: 40%	199/500 [01:27<02:28, 2.02it/s]
Power Factorization: 40%	200/500 [01:27<02:26, 2.05it/s]
Power Factorization: 40%	201/500 [01:28<02:28, 2.02it/s]
Power Factorization: 40%	202/500 [01:28<02:26, 2.03it/s]
Power Factorization: 41%	203/500 [01:29<02:33, 1.93it/s]
Power Factorization: 41%	204/500 [01:29<02:26, 2.02it/s]
Power Factorization: 41%	205/500 [01:30<02:20, 2.10it/s]
Power Factorization: 41%	206/500 [01:30<02:14, 2.19it/s]
Power Factorization: 41%	207/500 [01:30<02:11, 2.23it/s]
Power Factorization: 42%	208/500 [01:31<02:08, 2.27it/s]
Power Factorization: 42%	209/500 [01:31<02:09, 2.25it/s]
Power Factorization: 42%	210/500 [01:32<02:11, 2.21it/s]
Power Factorization: 42%	211/500 [01:32<02:12, 2.17it/s]
Power Factorization: 42%	212/500 [01:33<02:15, 2.13it/s]

Power Factorization: 43%	213/500 [01:33<02:11, 2.18it/s]
Power Factorization: 43%	214/500 [01:34<02:08, 2.23it/s]
Power Factorization: 43%	215/500 [01:34<02:12, 2.14it/s]
Power Factorization: 43%	216/500 [01:35<02:19, 2.04it/s]
Power Factorization: 43%	217/500 [01:35<02:12, 2.13it/s]
Power Factorization: 44%	218/500 [01:35<02:09, 2.18it/s]
Power Factorization: 44%	219/500 [01:36<02:08, 2.18it/s]
Power Factorization: 44%	220/500 [01:36<02:06, 2.21it/s]
Power Factorization: 44%	221/500 [01:37<02:11, 2.12it/s]
Power Factorization: 44%	222/500 [01:37<02:10, 2.13it/s]
Power Factorization: 45%	223/500 [01:38<02:03, 2.23it/s]
Power Factorization: 45%	224/500 [01:38<02:05, 2.20it/s]
Power Factorization: 45%	225/500 [01:39<02:05, 2.20it/s]
Power Factorization: 45%	226/500 [01:39<02:07, 2.16it/s]
Power Factorization: 45%	227/500 [01:40<02:03, 2.21it/s]
Power Factorization: 46%	228/500 [01:40<02:04, 2.19it/s]
Power Factorization: 46%	229/500 [01:41<02:01, 2.23it/s]
Power Factorization: 46%	230/500 [01:41<01:59, 2.27it/s]
Power Factorization: 46%	231/500 [01:41<01:57, 2.29it/s]
Power Factorization: 46%	232/500 [01:42<01:57, 2.28it/s]
Power Factorization: 47%	233/500 [01:42<01:56, 2.30it/s]
Power Factorization: 47%	234/500 [01:43<01:55, 2.30it/s]
Power Factorization: 47%	235/500 [01:43<01:55, 2.30it/s]
Power Factorization: 47%	236/500 [01:44<01:54, 2.31it/s]

Power Factorization: 47%	237/500 [01:44<01:56, 2.26it/s]
Power Factorization: 48%	238/500 [01:44<01:55, 2.26it/s]
Power Factorization: 48%	239/500 [01:45<01:57, 2.22it/s]
Power Factorization: 48%	240/500 [01:45<01:57, 2.21it/s]
Power Factorization: 48%	241/500 [01:46<01:57, 2.21it/s]
Power Factorization: 48%	242/500 [01:46<01:53, 2.27it/s]
Power Factorization: 49%	243/500 [01:47<01:52, 2.29it/s]
Power Factorization: 49%	244/500 [01:47<01:49, 2.33it/s]
Power Factorization: 49%	245/500 [01:47<01:47, 2.37it/s]
Power Factorization: 49%	246/500 [01:48<01:46, 2.37it/s]
Power Factorization: 49%	247/500 [01:48<01:48, 2.34it/s]
Power Factorization: 50%	248/500 [01:49<01:51, 2.26it/s]
Power Factorization: 50%	249/500 [01:49<01:50, 2.26it/s]
Power Factorization: 50%	250/500 [01:50<01:56, 2.14it/s]
Power Factorization: 50%	251/500 [01:50<01:56, 2.14it/s]
Power Factorization: 50%	252/500 [01:51<01:52, 2.20it/s]
Power Factorization: 51%	253/500 [01:51<01:56, 2.12it/s]
Power Factorization: 51%	254/500 [01:52<02:08, 1.92it/s]
Power Factorization: 51%	255/500 [01:52<02:01, 2.02it/s]
Power Factorization: 51%	256/500 [01:53<01:51, 2.19it/s]
Power Factorization: 51%	257/500 [01:53<01:48, 2.24it/s]
Power Factorization: 52%	258/500 [01:53<01:43, 2.33it/s]
Power Factorization: 52%	259/500 [01:54<01:43, 2.33it/s]
Power Factorization: 52%	260/500 [01:54<01:42, 2.35it/s]

Power Factorization: 52%	261/500 [01:55<01:40, 2.37it/s]
Power Factorization: 52%	262/500 [01:55<01:41, 2.34it/s]
Power Factorization: 53%	263/500 [01:56<01:39, 2.38it/s]
Power Factorization: 53%	264/500 [01:56<01:38, 2.39it/s]
Power Factorization: 53%	265/500 [01:56<01:37, 2.42it/s]
Power Factorization: 53%	266/500 [01:57<01:32, 2.53it/s]
Power Factorization: 53%	267/500 [01:57<01:33, 2.49it/s]
Power Factorization: 54%	268/500 [01:58<01:39, 2.34it/s]
Power Factorization: 54%	269/500 [01:58<01:35, 2.43it/s]
Power Factorization: 54%	270/500 [01:58<01:35, 2.40it/s]
Power Factorization: 54%	271/500 [01:59<01:33, 2.44it/s]
Power Factorization: 54%	272/500 [01:59<01:33, 2.44it/s]
Power Factorization: 55%	273/500 [02:00<01:30, 2.50it/s]
Power Factorization: 55%	274/500 [02:00<01:31, 2.47it/s]
Power Factorization: 55%	275/500 [02:00<01:35, 2.36it/s]
Power Factorization: 55%	276/500 [02:01<01:36, 2.32it/s]
Power Factorization: 55%	277/500 [02:01<01:36, 2.31it/s]
Power Factorization: 56%	278/500 [02:02<01:33, 2.37it/s]
Power Factorization: 56%	279/500 [02:02<01:36, 2.29it/s]
Power Factorization: 56%	280/500 [02:03<01:34, 2.33it/s]
Power Factorization: 56%	281/500 [02:03<01:36, 2.26it/s]
Power Factorization: 56%	282/500 [02:04<01:37, 2.23it/s]
Power Factorization: 57%	283/500 [02:05<02:08, 1.69it/s]
Power Factorization: 57%	284/500 [02:05<01:56, 1.85it/s]

Power Factorization: 57%	285/500 [02:05<01:55, 1.86it/s]
Power Factorization: 57%	286/500 [02:06<01:47, 1.99it/s]
Power Factorization: 57%	287/500 [02:06<01:40, 2.12it/s]
Power Factorization: 58%	288/500 [02:07<01:33, 2.26it/s]
Power Factorization: 58%	289/500 [02:07<01:28, 2.39it/s]
Power Factorization: 58%	290/500 [02:07<01:27, 2.39it/s]
Power Factorization: 58%	291/500 [02:08<01:27, 2.38it/s]
Power Factorization: 58%	292/500 [02:08<01:26, 2.40it/s]
Power Factorization: 59%	293/500 [02:09<01:26, 2.39it/s]
Power Factorization: 59%	294/500 [02:09<01:24, 2.45it/s]
Power Factorization: 59%	295/500 [02:09<01:22, 2.49it/s]
Power Factorization: 59%	296/500 [02:10<01:21, 2.52it/s]
Power Factorization: 59%	297/500 [02:10<01:20, 2.52it/s]
Power Factorization: 60%	298/500 [02:11<01:22, 2.46it/s]
Power Factorization: 60%	299/500 [02:11<01:26, 2.33it/s]
Power Factorization: 60%	300/500 [02:12<01:24, 2.38it/s]
Power Factorization: 60%	301/500 [02:12<01:23, 2.38it/s]
Power Factorization: 60%	302/500 [02:12<01:23, 2.36it/s]
Power Factorization: 61%	303/500 [02:13<01:22, 2.39it/s]
Power Factorization: 61%	304/500 [02:13<01:19, 2.47it/s]
Power Factorization: 61%	305/500 [02:14<01:45, 1.84it/s]
Power Factorization: 61%	306/500 [02:14<01:38, 1.97it/s]
Power Factorization: 61%	307/500 [02:15<01:34, 2.04it/s]
Power Factorization: 62%	308/500 [02:15<01:30, 2.13it/s]

Power Factorization: 62%	309/500 [02:16<01:25, 2.24it/s]
Power Factorization: 62%	310/500 [02:16<01:29, 2.13it/s]
Power Factorization: 62%	311/500 [02:17<01:24, 2.23it/s]
Power Factorization: 62%	312/500 [02:17<01:22, 2.27it/s]
Power Factorization: 63%	313/500 [02:17<01:19, 2.34it/s]
Power Factorization: 63%	314/500 [02:18<01:17, 2.40it/s]
Power Factorization: 63%	315/500 [02:18<01:16, 2.41it/s]
Power Factorization: 63%	316/500 [02:19<01:15, 2.42it/s]
Power Factorization: 63%	317/500 [02:19<01:13, 2.50it/s]
Power Factorization: 64%	318/500 [02:19<01:12, 2.50it/s]
Power Factorization: 64%	319/500 [02:20<01:14, 2.44it/s]
Power Factorization: 64%	320/500 [02:20<01:14, 2.42it/s]
Power Factorization: 64%	321/500 [02:21<01:11, 2.50it/s]
Power Factorization: 64%	322/500 [02:21<01:09, 2.56it/s]
Power Factorization: 65%	323/500 [02:21<01:08, 2.59it/s]
Power Factorization: 65%	324/500 [02:22<01:07, 2.62it/s]
Power Factorization: 65%	325/500 [02:22<01:04, 2.70it/s]
Power Factorization: 65%	326/500 [02:23<01:06, 2.61it/s]
Power Factorization: 65%	327/500 [02:23<01:05, 2.63it/s]
Power Factorization: 66%	328/500 [02:23<01:05, 2.62it/s]
Power Factorization: 66%	329/500 [02:24<01:04, 2.67it/s]
Power Factorization: 66%	330/500 [02:24<01:05, 2.60it/s]
Power Factorization: 66%	331/500 [02:25<01:14, 2.26it/s]
Power Factorization: 66%	332/500 [02:25<01:16, 2.18it/s]

Power Factorization: 67%	333/500 [02:26<01:31, 1.82it/s]
Power Factorization: 67%	334/500 [02:27<01:37, 1.70it/s]
Power Factorization: 67%	335/500 [02:27<01:44, 1.58it/s]
Power Factorization: 67%	336/500 [02:28<01:49, 1.50it/s]
Power Factorization: 67%	337/500 [02:28<01:34, 1.72it/s]
Power Factorization: 68%	338/500 [02:29<01:52, 1.44it/s]
Power Factorization: 68%	339/500 [02:30<01:36, 1.67it/s]
Power Factorization: 68%	340/500 [02:30<01:27, 1.83it/s]
Power Factorization: 68%	341/500 [02:31<01:20, 1.98it/s]
Power Factorization: 68%	342/500 [02:31<01:20, 1.95it/s]
Power Factorization: 69%	343/500 [02:32<01:14, 2.11it/s]
Power Factorization: 69%	344/500 [02:32<01:10, 2.20it/s]
Power Factorization: 69%	345/500 [02:32<01:08, 2.26it/s]
Power Factorization: 69%	346/500 [02:33<01:08, 2.25it/s]
Power Factorization: 69%	347/500 [02:33<01:07, 2.28it/s]
Power Factorization: 70%	348/500 [02:34<01:03, 2.39it/s]
Power Factorization: 70%	349/500 [02:34<01:04, 2.35it/s]
Power Factorization: 70%	350/500 [02:35<01:05, 2.28it/s]
Power Factorization: 70%	351/500 [02:35<01:09, 2.14it/s]
Power Factorization: 70%	352/500 [02:35<01:07, 2.19it/s]
Power Factorization: 71%	353/500 [02:36<01:03, 2.30it/s]
Power Factorization: 71%	354/500 [02:36<00:59, 2.44it/s]
Power Factorization: 71%	355/500 [02:37<00:58, 2.48it/s]
Power Factorization: 71%	356/500 [02:37<00:58, 2.45it/s]

Power Factorization: 71%	357/500 [02:38<01:13,	1.93it/s]
Power Factorization: 72%	358/500 [02:38<01:09,	2.06it/s]
Power Factorization: 72%	359/500 [02:39<01:06,	2.11it/s]
Power Factorization: 72%	360/500 [02:39<01:04,	2.16it/s]
Power Factorization: 72%	361/500 [02:39<01:01,	2.25it/s]
Power Factorization: 72%	362/500 [02:40<00:59,	2.31it/s]
Power Factorization: 73%	363/500 [02:40<00:58,	2.36it/s]
Power Factorization: 73%	364/500 [02:41<00:57,	2.36it/s]
Power Factorization: 73%	365/500 [02:41<00:55,	2.45it/s]
Power Factorization: 73%	366/500 [02:41<00:53,	2.50it/s]
Power Factorization: 73%	367/500 [02:42<00:53,	2.50it/s]
Power Factorization: 74%	368/500 [02:42<00:52,	2.51it/s]
Power Factorization: 74%	369/500 [02:43<00:50,	2.58it/s]
Power Factorization: 74%	370/500 [02:43<00:50,	2.57it/s]
Power Factorization: 74%	371/500 [02:43<00:48,	2.67it/s]
Power Factorization: 74%	372/500 [02:44<00:48,	2.66it/s]
Power Factorization: 75%	373/500 [02:44<00:49,	2.56it/s]
Power Factorization: 75%	374/500 [02:45<00:50,	2.49it/s]
Power Factorization: 75%	375/500 [02:45<00:48,	2.57it/s]
Power Factorization: 75%	376/500 [02:45<00:47,	2.59it/s]
Power Factorization: 75%	377/500 [02:46<00:46,	2.64it/s]
Power Factorization: 76%	378/500 [02:46<00:46,	2.63it/s]
Power Factorization: 76%	379/500 [02:46<00:45,	2.68it/s]
Power Factorization: 76%	380/500 [02:47<00:46,	2.56it/s]

Power Factorization: 76%	381/500 [02:47<00:46, 2.57it/s]
Power Factorization: 76%	382/500 [02:48<00:47, 2.50it/s]
Power Factorization: 77%	383/500 [02:48<00:47, 2.49it/s]
Power Factorization: 77%	384/500 [02:48<00:44, 2.59it/s]
Power Factorization: 77%	385/500 [02:49<00:43, 2.65it/s]
Power Factorization: 77%	386/500 [02:49<00:43, 2.60it/s]
Power Factorization: 77%	387/500 [02:50<00:43, 2.60it/s]
Power Factorization: 78%	388/500 [02:50<00:41, 2.72it/s]
Power Factorization: 78%	389/500 [02:50<00:40, 2.76it/s]
Power Factorization: 78%	390/500 [02:51<00:40, 2.71it/s]
Power Factorization: 78%	391/500 [02:51<00:40, 2.68it/s]
Power Factorization: 78%	392/500 [02:51<00:40, 2.66it/s]
Power Factorization: 79%	393/500 [02:52<00:48, 2.22it/s]
Power Factorization: 79%	394/500 [02:52<00:45, 2.31it/s]
Power Factorization: 79%	395/500 [02:53<00:45, 2.30it/s]
Power Factorization: 79%	396/500 [02:53<00:47, 2.17it/s]
Power Factorization: 79%	397/500 [02:54<00:45, 2.26it/s]
Power Factorization: 80%	398/500 [02:54<00:42, 2.37it/s]
Power Factorization: 80%	399/500 [02:55<00:40, 2.48it/s]
Power Factorization: 80%	400/500 [02:55<00:39, 2.56it/s]
Power Factorization: 80%	401/500 [02:55<00:38, 2.56it/s]
Power Factorization: 80%	402/500 [02:56<00:38, 2.55it/s]
Power Factorization: 81%	403/500 [02:56<00:38, 2.50it/s]
Power Factorization: 81%	404/500 [02:56<00:38, 2.51it/s]

Power Factorization: 81%	405/500 [02:57<00:38,	2.44it/s]
Power Factorization: 81%	406/500 [02:57<00:41,	2.28it/s]
Power Factorization: 81%	407/500 [02:58<00:41,	2.25it/s]
Power Factorization: 82%	408/500 [02:58<00:41,	2.22it/s]
Power Factorization: 82%	409/500 [02:59<00:40,	2.24it/s]
Power Factorization: 82%	410/500 [02:59<00:39,	2.26it/s]
Power Factorization: 82%	411/500 [03:00<00:38,	2.32it/s]
Power Factorization: 82%	412/500 [03:00<00:38,	2.26it/s]
Power Factorization: 83%	413/500 [03:01<00:38,	2.27it/s]
Power Factorization: 83%	414/500 [03:01<00:37,	2.27it/s]
Power Factorization: 83%	415/500 [03:01<00:37,	2.24it/s]
Power Factorization: 83%	416/500 [03:02<00:36,	2.27it/s]
Power Factorization: 83%	417/500 [03:02<00:35,	2.34it/s]
Power Factorization: 84%	418/500 [03:03<00:38,	2.12it/s]
Power Factorization: 84%	419/500 [03:03<00:38,	2.10it/s]
Power Factorization: 84%	420/500 [03:04<00:35,	2.26it/s]
Power Factorization: 84%	421/500 [03:04<00:33,	2.36it/s]
Power Factorization: 84%	422/500 [03:04<00:33,	2.34it/s]
Power Factorization: 85%	423/500 [03:05<00:33,	2.31it/s]
Power Factorization: 85%	424/500 [03:05<00:31,	2.43it/s]
Power Factorization: 85%	425/500 [03:06<00:31,	2.41it/s]
Power Factorization: 85%	426/500 [03:06<00:30,	2.45it/s]
Power Factorization: 85%	427/500 [03:07<00:33,	2.21it/s]
Power Factorization: 86%	428/500 [03:07<00:40,	1.80it/s]

Power Factorization: 86%	429/500 [03:08<00:35,	1.98it/s]
Power Factorization: 86%	430/500 [03:08<00:35,	1.98it/s]
Power Factorization: 86%	431/500 [03:09<00:35,	1.96it/s]
Power Factorization: 86%	432/500 [03:09<00:32,	2.06it/s]
Power Factorization: 87%	433/500 [03:10<00:31,	2.13it/s]
Power Factorization: 87%	434/500 [03:11<00:38,	1.69it/s]
Power Factorization: 87%	435/500 [03:11<00:34,	1.87it/s]
Power Factorization: 87%	436/500 [03:11<00:31,	2.06it/s]
Power Factorization: 87%	437/500 [03:12<00:28,	2.19it/s]
Power Factorization: 88%	438/500 [03:12<00:26,	2.30it/s]
Power Factorization: 88%	439/500 [03:13<00:25,	2.37it/s]
Power Factorization: 88%	440/500 [03:13<00:25,	2.38it/s]
Power Factorization: 88%	441/500 [03:13<00:24,	2.38it/s]
Power Factorization: 88%	442/500 [03:14<00:25,	2.27it/s]
Power Factorization: 89%	443/500 [03:14<00:24,	2.30it/s]
Power Factorization: 89%	444/500 [03:15<00:23,	2.36it/s]
Power Factorization: 89%	445/500 [03:15<00:22,	2.41it/s]
Power Factorization: 89%	446/500 [03:16<00:23,	2.35it/s]
Power Factorization: 89%	447/500 [03:16<00:22,	2.36it/s]
Power Factorization: 90%	448/500 [03:16<00:23,	2.23it/s]
Power Factorization: 90%	449/500 [03:17<00:23,	2.17it/s]
Power Factorization: 90%	450/500 [03:17<00:22,	2.25it/s]
Power Factorization: 90%	451/500 [03:18<00:22,	2.17it/s]
Power Factorization: 90%	452/500 [03:18<00:21,	2.19it/s]

Power Factorization: 91%	453/500 [03:19<00:21,	2.23it/s]
Power Factorization: 91%	454/500 [03:19<00:20,	2.21it/s]
Power Factorization: 91%	455/500 [03:20<00:19,	2.32it/s]
Power Factorization: 91%	456/500 [03:20<00:18,	2.42it/s]
Power Factorization: 91%	457/500 [03:21<00:22,	1.90it/s]
Power Factorization: 92%	458/500 [03:21<00:20,	2.01it/s]
Power Factorization: 92%	459/500 [03:22<00:19,	2.12it/s]
Power Factorization: 92%	460/500 [03:22<00:18,	2.19it/s]
Power Factorization: 92%	461/500 [03:22<00:17,	2.24it/s]
Power Factorization: 92%	462/500 [03:23<00:16,	2.26it/s]
Power Factorization: 93%	463/500 [03:23<00:16,	2.22it/s]
Power Factorization: 93%	464/500 [03:24<00:16,	2.24it/s]
Power Factorization: 93%	465/500 [03:24<00:15,	2.27it/s]
Power Factorization: 93%	466/500 [03:25<00:15,	2.27it/s]
Power Factorization: 93%	467/500 [03:25<00:14,	2.31it/s]
Power Factorization: 94%	468/500 [03:26<00:14,	2.25it/s]
Power Factorization: 94%	469/500 [03:26<00:13,	2.35it/s]
Power Factorization: 94%	470/500 [03:26<00:14,	2.13it/s]
Power Factorization: 94%	471/500 [03:27<00:12,	2.26it/s]
Power Factorization: 94%	472/500 [03:27<00:12,	2.29it/s]
Power Factorization: 95%	473/500 [03:28<00:12,	2.10it/s]
Power Factorization: 95%	474/500 [03:28<00:11,	2.18it/s]
Power Factorization: 95%	475/500 [03:29<00:11,	2.22it/s]
Power Factorization: 95%	476/500 [03:29<00:10,	2.23it/s]

Power Factorization: 95%	477/500 [03:30<00:11, 2.07it/s]
Power Factorization: 96%	478/500 [03:30<00:10, 2.16it/s]
Power Factorization: 96%	479/500 [03:31<00:09, 2.12it/s]
Power Factorization: 96%	480/500 [03:31<00:09, 2.14it/s]
Power Factorization: 96%	481/500 [03:31<00:08, 2.19it/s]
Power Factorization: 96%	482/500 [03:32<00:07, 2.27it/s]
Power Factorization: 97%	483/500 [03:32<00:07, 2.21it/s]
Power Factorization: 97%	484/500 [03:33<00:07, 2.20it/s]
Power Factorization: 97%	485/500 [03:33<00:06, 2.23it/s]
Power Factorization: 97%	486/500 [03:34<00:06, 2.30it/s]
Power Factorization: 97%	487/500 [03:34<00:05, 2.39it/s]
Power Factorization: 98%	488/500 [03:34<00:04, 2.44it/s]
Power Factorization: 98%	489/500 [03:35<00:04, 2.34it/s]
Power Factorization: 98%	490/500 [03:35<00:04, 2.36it/s]
Power Factorization: 98%	491/500 [03:36<00:03, 2.39it/s]
Power Factorization: 98%	492/500 [03:36<00:03, 2.29it/s]
Power Factorization: 99%	493/500 [03:37<00:02, 2.34it/s]
Power Factorization: 99%	494/500 [03:37<00:02, 2.41it/s]
Power Factorization: 99%	495/500 [03:37<00:02, 2.42it/s]
Power Factorization: 99%	496/500 [03:38<00:01, 2.23it/s]
Power Factorization: 99%	497/500 [03:38<00:01, 2.28it/s]
Power Factorization: 100%	498/500 [03:39<00:00, 2.40it/s]
Power Factorization: 100%	499/500 [03:39<00:00, 2.43it/s]
Power Factorization: 100%	500/500 [03:40<00:00, 2.27it/s]

Cross Validation:	60%		3/5	[08:23<05:56, 178.02s/it]
Power Factorization:	0%		0/500	[00:00<?, ?it/s]
Power Factorization:	0%		1/500	[00:00<04:47, 1.74it/s]
Power Factorization:	0%		2/500	[00:00<03:55, 2.12it/s]
Power Factorization:	1%		3/500	[00:01<03:48, 2.17it/s]
Power Factorization:	1%		4/500	[00:01<03:42, 2.23it/s]
Power Factorization:	1%		5/500	[00:02<03:41, 2.23it/s]
Power Factorization:	1%		6/500	[00:02<03:44, 2.20it/s]
Power Factorization:	1%		7/500	[00:03<03:36, 2.28it/s]
Power Factorization:	2%		8/500	[00:03<03:31, 2.33it/s]
Power Factorization:	2%		9/500	[00:03<03:26, 2.38it/s]
Power Factorization:	2%		10/500	[00:04<03:25, 2.38it/s]
Power Factorization:	2%		11/500	[00:04<03:25, 2.38it/s]
Power Factorization:	2%		12/500	[00:05<03:21, 2.43it/s]
Power Factorization:	3%		13/500	[00:05<03:46, 2.15it/s]
Power Factorization:	3%		14/500	[00:06<03:35, 2.26it/s]
Power Factorization:	3%		15/500	[00:06<03:29, 2.31it/s]
Power Factorization:	3%		16/500	[00:07<03:25, 2.35it/s]
Power Factorization:	3%		17/500	[00:07<03:19, 2.42it/s]
Power Factorization:	4%		18/500	[00:07<03:19, 2.41it/s]
Power Factorization:	4%		19/500	[00:08<03:16, 2.45it/s]
Power Factorization:	4%		20/500	[00:08<03:15, 2.46it/s]
Power Factorization:	4%		21/500	[00:09<03:39, 2.18it/s]
Power Factorization:	4%		22/500	[00:09<04:28, 1.78it/s]

Power Factorization:	5%	23/500 [00:10<04:03, 1.96it/s]
Power Factorization:	5%	24/500 [00:10<03:40, 2.16it/s]
Power Factorization:	5%	25/500 [00:11<03:55, 2.02it/s]
Power Factorization:	5%	26/500 [00:11<03:46, 2.10it/s]
Power Factorization:	5%	27/500 [00:12<03:43, 2.11it/s]
Power Factorization:	6%	28/500 [00:12<03:45, 2.09it/s]
Power Factorization:	6%	29/500 [00:13<03:53, 2.02it/s]
Power Factorization:	6%	30/500 [00:13<03:41, 2.12it/s]
Power Factorization:	6%	31/500 [00:14<03:42, 2.10it/s]
Power Factorization:	6%	32/500 [00:14<03:39, 2.13it/s]
Power Factorization:	7%	33/500 [00:14<03:26, 2.26it/s]
Power Factorization:	7%	34/500 [00:15<03:22, 2.30it/s]
Power Factorization:	7%	35/500 [00:15<03:21, 2.30it/s]
Power Factorization:	7%	36/500 [00:16<03:45, 2.06it/s]
Power Factorization:	7%	37/500 [00:16<03:37, 2.12it/s]
Power Factorization:	8%	38/500 [00:17<03:31, 2.18it/s]
Power Factorization:	8%	39/500 [00:17<03:20, 2.29it/s]
Power Factorization:	8%	40/500 [00:18<03:16, 2.34it/s]
Power Factorization:	8%	41/500 [00:18<03:16, 2.33it/s]
Power Factorization:	8%	42/500 [00:19<03:25, 2.23it/s]
Power Factorization:	9%	43/500 [00:19<03:22, 2.25it/s]
Power Factorization:	9%	44/500 [00:19<03:27, 2.20it/s]
Power Factorization:	9%	45/500 [00:20<03:15, 2.33it/s]
Power Factorization:	9%	46/500 [00:20<03:43, 2.03it/s]

Power Factorization:	9%	47/500 [00:21<03:25, 2.20it/s]
Power Factorization:	10%	48/500 [00:21<03:29, 2.16it/s]
Power Factorization:	10%	49/500 [00:22<03:23, 2.22it/s]
Power Factorization:	10%	50/500 [00:22<03:17, 2.28it/s]
Power Factorization:	10%	51/500 [00:22<03:07, 2.40it/s]
Power Factorization:	10%	52/500 [00:23<03:06, 2.40it/s]
Power Factorization:	11%	53/500 [00:23<03:08, 2.37it/s]
Power Factorization:	11%	54/500 [00:24<03:03, 2.43it/s]
Power Factorization:	11%	55/500 [00:24<03:08, 2.36it/s]
Power Factorization:	11%	56/500 [00:25<03:06, 2.38it/s]
Power Factorization:	11%	57/500 [00:25<02:56, 2.51it/s]
Power Factorization:	12%	58/500 [00:25<02:56, 2.50it/s]
Power Factorization:	12%	59/500 [00:26<02:55, 2.51it/s]
Power Factorization:	12%	60/500 [00:26<02:52, 2.55it/s]
Power Factorization:	12%	61/500 [00:26<02:52, 2.54it/s]
Power Factorization:	12%	62/500 [00:27<02:54, 2.51it/s]
Power Factorization:	13%	63/500 [00:27<03:19, 2.19it/s]
Power Factorization:	13%	64/500 [00:28<04:05, 1.78it/s]
Power Factorization:	13%	65/500 [00:29<03:44, 1.94it/s]
Power Factorization:	13%	66/500 [00:29<03:29, 2.07it/s]
Power Factorization:	13%	67/500 [00:30<03:25, 2.11it/s]
Power Factorization:	14%	68/500 [00:30<03:20, 2.16it/s]
Power Factorization:	14%	69/500 [00:30<03:19, 2.16it/s]
Power Factorization:	14%	70/500 [00:31<03:14, 2.21it/s]

Power Factorization: 14%	71/500 [00:31<03:04, 2.33it/s]
Power Factorization: 14%	72/500 [00:32<03:10, 2.24it/s]
Power Factorization: 15%	73/500 [00:32<03:03, 2.33it/s]
Power Factorization: 15%	74/500 [00:33<02:58, 2.38it/s]
Power Factorization: 15%	75/500 [00:33<02:57, 2.40it/s]
Power Factorization: 15%	76/500 [00:33<02:55, 2.42it/s]
Power Factorization: 15%	77/500 [00:34<02:55, 2.41it/s]
Power Factorization: 16%	78/500 [00:34<02:46, 2.53it/s]
Power Factorization: 16%	79/500 [00:35<02:47, 2.51it/s]
Power Factorization: 16%	80/500 [00:35<02:54, 2.41it/s]
Power Factorization: 16%	81/500 [00:35<02:52, 2.42it/s]
Power Factorization: 16%	82/500 [00:36<03:02, 2.30it/s]
Power Factorization: 17%	83/500 [00:36<02:57, 2.35it/s]
Power Factorization: 17%	84/500 [00:37<02:49, 2.45it/s]
Power Factorization: 17%	85/500 [00:37<02:48, 2.46it/s]
Power Factorization: 17%	86/500 [00:38<02:56, 2.35it/s]
Power Factorization: 17%	87/500 [00:38<02:47, 2.47it/s]
Power Factorization: 18%	88/500 [00:39<03:31, 1.94it/s]
Power Factorization: 18%	89/500 [00:39<03:21, 2.04it/s]
Power Factorization: 18%	90/500 [00:40<03:20, 2.04it/s]
Power Factorization: 18%	91/500 [00:40<03:14, 2.10it/s]
Power Factorization: 18%	92/500 [00:40<03:06, 2.19it/s]
Power Factorization: 19%	93/500 [00:41<02:55, 2.33it/s]
Power Factorization: 19%	94/500 [00:41<02:49, 2.39it/s]

Power Factorization: 19%	95/500 [00:42<02:46, 2.44it/s]
Power Factorization: 19%	96/500 [00:42<02:39, 2.54it/s]
Power Factorization: 19%	97/500 [00:42<02:37, 2.55it/s]
Power Factorization: 20%	98/500 [00:43<02:38, 2.53it/s]
Power Factorization: 20%	99/500 [00:43<02:36, 2.56it/s]
Power Factorization: 20%	100/500 [00:44<02:39, 2.50it/s]
Power Factorization: 20%	101/500 [00:44<02:37, 2.53it/s]
Power Factorization: 20%	102/500 [00:44<02:40, 2.48it/s]
Power Factorization: 21%	103/500 [00:45<02:38, 2.50it/s]
Power Factorization: 21%	104/500 [00:45<02:46, 2.38it/s]
Power Factorization: 21%	105/500 [00:46<02:39, 2.47it/s]
Power Factorization: 21%	106/500 [00:46<02:34, 2.54it/s]
Power Factorization: 21%	107/500 [00:46<02:35, 2.53it/s]
Power Factorization: 22%	108/500 [00:47<02:33, 2.55it/s]
Power Factorization: 22%	109/500 [00:47<02:33, 2.54it/s]
Power Factorization: 22%	110/500 [00:48<02:41, 2.42it/s]
Power Factorization: 22%	111/500 [00:48<02:38, 2.45it/s]
Power Factorization: 22%	112/500 [00:48<02:33, 2.53it/s]
Power Factorization: 23%	113/500 [00:49<02:30, 2.57it/s]
Power Factorization: 23%	114/500 [00:49<02:24, 2.67it/s]
Power Factorization: 23%	115/500 [00:49<02:30, 2.56it/s]
Power Factorization: 23%	116/500 [00:50<02:30, 2.54it/s]
Power Factorization: 23%	117/500 [00:50<02:35, 2.46it/s]
Power Factorization: 24%	118/500 [00:51<02:34, 2.47it/s]

Power Factorization: 24%	119/500 [00:51<02:32, 2.50it/s]
Power Factorization: 24%	120/500 [00:52<02:39, 2.38it/s]
Power Factorization: 24%	121/500 [00:52<02:43, 2.32it/s]
Power Factorization: 24%	122/500 [00:52<02:35, 2.43it/s]
Power Factorization: 25%	123/500 [00:53<02:40, 2.35it/s]
Power Factorization: 25%	124/500 [00:53<02:30, 2.49it/s]
Power Factorization: 25%	125/500 [00:54<02:28, 2.53it/s]
Power Factorization: 25%	126/500 [00:54<02:24, 2.58it/s]
Power Factorization: 25%	127/500 [00:54<02:25, 2.56it/s]
Power Factorization: 26%	128/500 [00:55<02:30, 2.47it/s]
Power Factorization: 26%	129/500 [00:55<02:27, 2.52it/s]
Power Factorization: 26%	130/500 [00:56<02:24, 2.56it/s]
Power Factorization: 26%	131/500 [00:56<02:24, 2.56it/s]
Power Factorization: 26%	132/500 [00:56<02:23, 2.56it/s]
Power Factorization: 27%	133/500 [00:57<02:21, 2.60it/s]
Power Factorization: 27%	134/500 [00:57<02:23, 2.55it/s]
Power Factorization: 27%	135/500 [00:57<02:21, 2.58it/s]
Power Factorization: 27%	136/500 [00:58<02:18, 2.62it/s]
Power Factorization: 27%	137/500 [00:58<02:29, 2.43it/s]
Power Factorization: 28%	138/500 [00:59<02:34, 2.34it/s]
Power Factorization: 28%	139/500 [00:59<02:28, 2.44it/s]
Power Factorization: 28%	140/500 [01:00<02:28, 2.43it/s]
Power Factorization: 28%	141/500 [01:00<02:30, 2.39it/s]
Power Factorization: 28%	142/500 [01:00<02:24, 2.48it/s]

Power Factorization: 29%	143/500 [01:01<02:19, 2.56it/s]
Power Factorization: 29%	144/500 [01:01<02:19, 2.55it/s]
Power Factorization: 29%	145/500 [01:02<02:19, 2.54it/s]
Power Factorization: 29%	146/500 [01:02<02:18, 2.55it/s]
Power Factorization: 29%	147/500 [01:02<02:19, 2.53it/s]
Power Factorization: 30%	148/500 [01:03<02:14, 2.61it/s]
Power Factorization: 30%	149/500 [01:03<02:16, 2.57it/s]
Power Factorization: 30%	150/500 [01:03<02:19, 2.51it/s]
Power Factorization: 30%	151/500 [01:04<02:16, 2.56it/s]
Power Factorization: 30%	152/500 [01:04<02:14, 2.59it/s]
Power Factorization: 31%	153/500 [01:05<02:14, 2.58it/s]
Power Factorization: 31%	154/500 [01:05<02:12, 2.62it/s]
Power Factorization: 31%	155/500 [01:05<02:15, 2.55it/s]
Power Factorization: 31%	156/500 [01:06<02:15, 2.54it/s]
Power Factorization: 31%	157/500 [01:06<02:16, 2.52it/s]
Power Factorization: 32%	158/500 [01:07<02:10, 2.62it/s]
Power Factorization: 32%	159/500 [01:07<02:07, 2.68it/s]
Power Factorization: 32%	160/500 [01:07<02:02, 2.78it/s]
Power Factorization: 32%	161/500 [01:08<02:02, 2.78it/s]
Power Factorization: 32%	162/500 [01:08<02:01, 2.79it/s]
Power Factorization: 33%	163/500 [01:08<01:58, 2.83it/s]
Power Factorization: 33%	164/500 [01:09<02:02, 2.74it/s]
Power Factorization: 33%	165/500 [01:09<02:01, 2.76it/s]
Power Factorization: 33%	166/500 [01:09<02:02, 2.73it/s]

Power Factorization: 33%	167/500 [01:10<02:11,	2.53it/s]
Power Factorization: 34%	168/500 [01:10<02:15,	2.45it/s]
Power Factorization: 34%	169/500 [01:11<02:12,	2.49it/s]
Power Factorization: 34%	170/500 [01:11<02:11,	2.51it/s]
Power Factorization: 34%	171/500 [01:12<02:11,	2.50it/s]
Power Factorization: 34%	172/500 [01:12<02:09,	2.53it/s]
Power Factorization: 35%	173/500 [01:12<02:05,	2.60it/s]
Power Factorization: 35%	174/500 [01:13<02:01,	2.68it/s]
Power Factorization: 35%	175/500 [01:13<01:57,	2.77it/s]
Power Factorization: 35%	176/500 [01:13<02:03,	2.62it/s]
Power Factorization: 35%	177/500 [01:14<02:04,	2.59it/s]
Power Factorization: 36%	178/500 [01:14<02:14,	2.39it/s]
Power Factorization: 36%	179/500 [01:15<02:12,	2.41it/s]
Power Factorization: 36%	180/500 [01:15<02:17,	2.32it/s]
Power Factorization: 36%	181/500 [01:16<02:13,	2.40it/s]
Power Factorization: 36%	182/500 [01:16<02:09,	2.45it/s]
Power Factorization: 37%	183/500 [01:16<02:06,	2.51it/s]
Power Factorization: 37%	184/500 [01:17<02:01,	2.61it/s]
Power Factorization: 37%	185/500 [01:17<01:58,	2.65it/s]
Power Factorization: 37%	186/500 [01:17<02:03,	2.55it/s]
Power Factorization: 37%	187/500 [01:18<02:02,	2.56it/s]
Power Factorization: 38%	188/500 [01:18<01:59,	2.61it/s]
Power Factorization: 38%	189/500 [01:19<02:01,	2.57it/s]
Power Factorization: 38%	190/500 [01:19<02:02,	2.52it/s]

Power Factorization: 38%	191/500 [01:19<02:06,	2.44it/s]
Power Factorization: 38%	192/500 [01:20<02:08,	2.40it/s]
Power Factorization: 39%	193/500 [01:20<02:05,	2.45it/s]
Power Factorization: 39%	194/500 [01:21<02:07,	2.39it/s]
Power Factorization: 39%	195/500 [01:21<02:01,	2.51it/s]
Power Factorization: 39%	196/500 [01:21<01:59,	2.55it/s]
Power Factorization: 39%	197/500 [01:22<01:59,	2.53it/s]
Power Factorization: 40%	198/500 [01:22<01:58,	2.55it/s]
Power Factorization: 40%	199/500 [01:23<01:56,	2.59it/s]
Power Factorization: 40%	200/500 [01:23<01:57,	2.55it/s]
Power Factorization: 40%	201/500 [01:23<01:53,	2.63it/s]
Power Factorization: 40%	202/500 [01:24<01:49,	2.71it/s]
Power Factorization: 41%	203/500 [01:24<01:50,	2.69it/s]
Power Factorization: 41%	204/500 [01:25<01:56,	2.54it/s]
Power Factorization: 41%	205/500 [01:25<02:01,	2.43it/s]
Power Factorization: 41%	206/500 [01:25<01:58,	2.48it/s]
Power Factorization: 41%	207/500 [01:26<01:56,	2.52it/s]
Power Factorization: 42%	208/500 [01:26<01:56,	2.52it/s]
Power Factorization: 42%	209/500 [01:27<01:55,	2.51it/s]
Power Factorization: 42%	210/500 [01:27<01:50,	2.61it/s]
Power Factorization: 42%	211/500 [01:27<01:52,	2.58it/s]
Power Factorization: 42%	212/500 [01:28<01:47,	2.67it/s]
Power Factorization: 43%	213/500 [01:28<01:46,	2.70it/s]
Power Factorization: 43%	214/500 [01:28<01:49,	2.62it/s]

Power Factorization: 43%	215/500 [01:29<02:11, 2.17it/s]
Power Factorization: 43%	216/500 [01:29<02:05, 2.26it/s]
Power Factorization: 43%	217/500 [01:30<02:13, 2.12it/s]
Power Factorization: 44%	218/500 [01:30<02:08, 2.19it/s]
Power Factorization: 44%	219/500 [01:31<02:00, 2.33it/s]
Power Factorization: 44%	220/500 [01:31<01:58, 2.36it/s]
Power Factorization: 44%	221/500 [01:32<01:52, 2.47it/s]
Power Factorization: 44%	222/500 [01:32<01:53, 2.44it/s]
Power Factorization: 45%	223/500 [01:32<01:51, 2.48it/s]
Power Factorization: 45%	224/500 [01:33<01:50, 2.50it/s]
Power Factorization: 45%	225/500 [01:33<01:50, 2.50it/s]
Power Factorization: 45%	226/500 [01:34<01:48, 2.52it/s]
Power Factorization: 45%	227/500 [01:34<01:48, 2.52it/s]
Power Factorization: 46%	228/500 [01:34<01:46, 2.57it/s]
Power Factorization: 46%	229/500 [01:35<01:47, 2.52it/s]
Power Factorization: 46%	230/500 [01:35<01:50, 2.44it/s]
Power Factorization: 46%	231/500 [01:36<01:47, 2.50it/s]
Power Factorization: 46%	232/500 [01:36<01:45, 2.54it/s]
Power Factorization: 47%	233/500 [01:36<01:44, 2.55it/s]
Power Factorization: 47%	234/500 [01:37<01:43, 2.58it/s]
Power Factorization: 47%	235/500 [01:37<02:16, 1.94it/s]
Power Factorization: 47%	236/500 [01:38<02:10, 2.02it/s]
Power Factorization: 47%	237/500 [01:38<01:58, 2.22it/s]
Power Factorization: 48%	238/500 [01:39<01:54, 2.28it/s]

Power Factorization: 48%	239/500 [01:39<01:51, 2.33it/s]
Power Factorization: 48%	240/500 [01:40<01:56, 2.23it/s]
Power Factorization: 48%	241/500 [01:40<01:49, 2.37it/s]
Power Factorization: 48%	242/500 [01:40<01:52, 2.30it/s]
Power Factorization: 49%	243/500 [01:41<01:47, 2.40it/s]
Power Factorization: 49%	244/500 [01:41<01:44, 2.44it/s]
Power Factorization: 49%	245/500 [01:42<01:44, 2.45it/s]
Power Factorization: 49%	246/500 [01:42<01:46, 2.38it/s]
Power Factorization: 49%	247/500 [01:42<01:47, 2.36it/s]
Power Factorization: 50%	248/500 [01:43<01:44, 2.42it/s]
Power Factorization: 50%	249/500 [01:43<01:39, 2.54it/s]
Power Factorization: 50%	250/500 [01:44<01:39, 2.52it/s]
Power Factorization: 50%	251/500 [01:44<01:43, 2.40it/s]
Power Factorization: 50%	252/500 [01:45<01:50, 2.25it/s]
Power Factorization: 51%	253/500 [01:45<01:48, 2.27it/s]
Power Factorization: 51%	254/500 [01:45<01:49, 2.24it/s]
Power Factorization: 51%	255/500 [01:46<01:48, 2.26it/s]
Power Factorization: 51%	256/500 [01:46<01:51, 2.18it/s]
Power Factorization: 51%	257/500 [01:47<01:52, 2.16it/s]
Power Factorization: 52%	258/500 [01:49<03:19, 1.21it/s]
Power Factorization: 52%	259/500 [01:49<02:57, 1.36it/s]
Power Factorization: 52%	260/500 [01:50<02:40, 1.49it/s]
Power Factorization: 52%	261/500 [01:50<02:28, 1.61it/s]
Power Factorization: 52%	262/500 [01:51<02:17, 1.73it/s]

Power Factorization: 53%	263/500 [01:51<02:12, 1.79it/s]
Power Factorization: 53%	264/500 [01:52<02:07, 1.85it/s]
Power Factorization: 53%	265/500 [01:52<02:13, 1.76it/s]
Power Factorization: 53%	266/500 [01:54<03:54, 1.00s/it]
Power Factorization: 53%	267/500 [01:55<03:16, 1.19it/s]
Power Factorization: 54%	268/500 [01:55<02:54, 1.33it/s]
Power Factorization: 54%	269/500 [01:56<02:35, 1.49it/s]
Power Factorization: 54%	270/500 [01:56<02:20, 1.64it/s]
Power Factorization: 54%	271/500 [01:57<02:09, 1.77it/s]
Power Factorization: 54%	272/500 [01:57<01:59, 1.91it/s]
Power Factorization: 55%	273/500 [01:57<01:50, 2.05it/s]
Power Factorization: 55%	274/500 [01:58<01:59, 1.90it/s]
Power Factorization: 55%	275/500 [01:59<02:00, 1.87it/s]
Power Factorization: 55%	276/500 [01:59<01:53, 1.98it/s]
Power Factorization: 55%	277/500 [02:00<01:51, 1.99it/s]
Power Factorization: 56%	278/500 [02:00<01:47, 2.07it/s]
Power Factorization: 56%	279/500 [02:00<01:44, 2.12it/s]
Power Factorization: 56%	280/500 [02:01<01:44, 2.10it/s]
Power Factorization: 56%	281/500 [02:01<01:42, 2.13it/s]
Power Factorization: 56%	282/500 [02:02<01:46, 2.05it/s]
Power Factorization: 57%	283/500 [02:02<01:42, 2.11it/s]
Power Factorization: 57%	284/500 [02:03<01:40, 2.16it/s]
Power Factorization: 57%	285/500 [02:03<01:37, 2.20it/s]
Power Factorization: 57%	286/500 [02:04<01:34, 2.25it/s]

Power Factorization: 57%	287/500 [02:04<01:52, 1.90it/s]
Power Factorization: 58%	288/500 [02:06<03:02, 1.16it/s]
Power Factorization: 58%	289/500 [02:07<02:40, 1.32it/s]
Power Factorization: 58%	290/500 [02:07<02:28, 1.42it/s]
Power Factorization: 58%	291/500 [02:08<02:15, 1.54it/s]
Power Factorization: 58%	292/500 [02:08<02:18, 1.51it/s]
Power Factorization: 59%	293/500 [02:11<04:45, 1.38s/it]
Power Factorization: 59%	294/500 [02:12<04:03, 1.18s/it]
Power Factorization: 59%	295/500 [02:13<03:21, 1.02it/s]
Power Factorization: 59%	296/500 [02:13<02:54, 1.17it/s]
Power Factorization: 59%	297/500 [02:14<02:29, 1.36it/s]
Power Factorization: 60%	298/500 [02:14<02:11, 1.54it/s]
Power Factorization: 60%	299/500 [02:15<02:12, 1.52it/s]
Power Factorization: 60%	300/500 [02:15<02:00, 1.65it/s]
Power Factorization: 60%	301/500 [02:16<01:53, 1.75it/s]
Power Factorization: 60%	302/500 [02:16<01:47, 1.85it/s]
Power Factorization: 61%	303/500 [02:17<02:04, 1.58it/s]
Power Factorization: 61%	304/500 [02:18<02:02, 1.60it/s]
Power Factorization: 61%	305/500 [02:19<02:25, 1.34it/s]
Power Factorization: 61%	306/500 [02:19<02:11, 1.47it/s]
Power Factorization: 61%	307/500 [02:20<02:18, 1.39it/s]
Power Factorization: 62%	308/500 [02:20<02:00, 1.59it/s]
Power Factorization: 62%	309/500 [02:21<01:49, 1.74it/s]
Power Factorization: 62%	310/500 [02:22<02:04, 1.52it/s]

Power Factorization: 62%	311/500 [02:22<01:53, 1.67it/s]
Power Factorization: 62%	312/500 [02:23<01:44, 1.80it/s]
Power Factorization: 63%	313/500 [02:24<02:05, 1.49it/s]
Power Factorization: 63%	314/500 [02:24<01:56, 1.60it/s]
Power Factorization: 63%	315/500 [02:25<01:53, 1.63it/s]
Power Factorization: 63%	316/500 [02:25<01:43, 1.78it/s]
Power Factorization: 63%	317/500 [02:26<01:45, 1.74it/s]
Power Factorization: 64%	318/500 [02:27<02:05, 1.45it/s]
Power Factorization: 64%	319/500 [02:27<01:56, 1.56it/s]
Power Factorization: 64%	320/500 [02:28<01:47, 1.68it/s]
Power Factorization: 64%	321/500 [02:29<01:57, 1.52it/s]
Power Factorization: 64%	322/500 [02:29<01:45, 1.69it/s]
Power Factorization: 65%	323/500 [02:30<01:52, 1.57it/s]
Power Factorization: 65%	324/500 [02:32<03:00, 1.02s/it]
Power Factorization: 65%	325/500 [02:32<02:32, 1.15it/s]
Power Factorization: 65%	326/500 [02:33<02:30, 1.16it/s]
Power Factorization: 65%	327/500 [02:34<02:15, 1.27it/s]
Power Factorization: 66%	328/500 [02:34<02:16, 1.26it/s]
Power Factorization: 66%	329/500 [02:35<02:10, 1.31it/s]
Power Factorization: 66%	330/500 [02:36<02:11, 1.30it/s]
Power Factorization: 66%	331/500 [02:36<01:55, 1.46it/s]
Power Factorization: 66%	332/500 [02:37<01:46, 1.58it/s]
Power Factorization: 67%	333/500 [02:37<01:40, 1.66it/s]
Power Factorization: 67%	334/500 [02:38<01:31, 1.82it/s]

Power Factorization: 67%	335/500 [02:38<01:23, 1.98it/s]
Power Factorization: 67%	336/500 [02:39<01:18, 2.09it/s]
Power Factorization: 67%	337/500 [02:39<01:23, 1.96it/s]
Power Factorization: 68%	338/500 [02:40<01:20, 2.02it/s]
Power Factorization: 68%	339/500 [02:40<01:19, 2.03it/s]
Power Factorization: 68%	340/500 [02:41<01:36, 1.65it/s]
Power Factorization: 68%	341/500 [02:42<01:50, 1.43it/s]
Power Factorization: 68%	342/500 [02:43<01:57, 1.34it/s]
Power Factorization: 69%	343/500 [02:44<01:57, 1.33it/s]
Power Factorization: 69%	344/500 [02:44<01:46, 1.47it/s]
Power Factorization: 69%	345/500 [02:45<01:44, 1.49it/s]
Power Factorization: 69%	346/500 [02:45<01:32, 1.66it/s]
Power Factorization: 69%	347/500 [02:46<01:38, 1.55it/s]
Power Factorization: 70%	348/500 [02:46<01:31, 1.66it/s]
Power Factorization: 70%	349/500 [02:47<01:25, 1.76it/s]
Power Factorization: 70%	350/500 [02:47<01:18, 1.92it/s]
Power Factorization: 70%	351/500 [02:48<01:19, 1.88it/s]
Power Factorization: 70%	352/500 [02:48<01:14, 1.99it/s]
Power Factorization: 71%	353/500 [02:49<01:11, 2.04it/s]
Power Factorization: 71%	354/500 [02:49<01:07, 2.17it/s]
Power Factorization: 71%	355/500 [02:50<01:05, 2.20it/s]
Power Factorization: 71%	356/500 [02:50<01:03, 2.28it/s]
Power Factorization: 71%	357/500 [02:51<01:02, 2.27it/s]
Power Factorization: 72%	358/500 [02:51<01:01, 2.32it/s]

Power Factorization: 72%	359/500 [02:51<00:57, 2.47it/s]
Power Factorization: 72%	360/500 [02:52<00:55, 2.53it/s]
Power Factorization: 72%	361/500 [02:52<00:56, 2.45it/s]
Power Factorization: 72%	362/500 [02:52<00:55, 2.50it/s]
Power Factorization: 73%	363/500 [02:53<00:53, 2.54it/s]
Power Factorization: 73%	364/500 [02:53<00:53, 2.55it/s]
Power Factorization: 73%	365/500 [02:54<00:52, 2.57it/s]
Power Factorization: 73%	366/500 [02:54<00:50, 2.65it/s]
Power Factorization: 73%	367/500 [02:54<00:48, 2.73it/s]
Power Factorization: 74%	368/500 [02:55<00:47, 2.76it/s]
Power Factorization: 74%	369/500 [02:55<00:50, 2.62it/s]
Power Factorization: 74%	370/500 [02:55<00:50, 2.55it/s]
Power Factorization: 74%	371/500 [02:56<00:54, 2.39it/s]
Power Factorization: 74%	372/500 [02:56<00:53, 2.41it/s]
Power Factorization: 75%	373/500 [02:57<00:51, 2.44it/s]
Power Factorization: 75%	374/500 [02:57<00:51, 2.43it/s]
Power Factorization: 75%	375/500 [02:58<00:50, 2.47it/s]
Power Factorization: 75%	376/500 [02:58<00:48, 2.54it/s]
Power Factorization: 75%	377/500 [02:58<00:48, 2.55it/s]
Power Factorization: 76%	378/500 [02:59<00:47, 2.55it/s]
Power Factorization: 76%	379/500 [02:59<00:47, 2.55it/s]
Power Factorization: 76%	380/500 [02:59<00:45, 2.62it/s]
Power Factorization: 76%	381/500 [03:00<00:45, 2.60it/s]
Power Factorization: 76%	382/500 [03:00<00:45, 2.62it/s]

Power Factorization: 77%	383/500 [03:01<00:44,	2.64it/s]
Power Factorization: 77%	384/500 [03:01<00:44,	2.63it/s]
Power Factorization: 77%	385/500 [03:01<00:43,	2.67it/s]
Power Factorization: 77%	386/500 [03:02<00:42,	2.69it/s]
Power Factorization: 77%	387/500 [03:02<00:41,	2.71it/s]
Power Factorization: 78%	388/500 [03:02<00:41,	2.71it/s]
Power Factorization: 78%	389/500 [03:03<00:40,	2.75it/s]
Power Factorization: 78%	390/500 [03:03<00:40,	2.69it/s]
Power Factorization: 78%	391/500 [03:04<00:40,	2.72it/s]
Power Factorization: 78%	392/500 [03:04<00:39,	2.74it/s]
Power Factorization: 79%	393/500 [03:04<00:39,	2.73it/s]
Power Factorization: 79%	394/500 [03:05<00:39,	2.66it/s]
Power Factorization: 79%	395/500 [03:05<00:39,	2.66it/s]
Power Factorization: 79%	396/500 [03:05<00:39,	2.64it/s]
Power Factorization: 79%	397/500 [03:06<00:38,	2.70it/s]
Power Factorization: 80%	398/500 [03:06<00:37,	2.70it/s]
Power Factorization: 80%	399/500 [03:07<00:36,	2.74it/s]
Power Factorization: 80%	400/500 [03:07<00:37,	2.69it/s]
Power Factorization: 80%	401/500 [03:07<00:36,	2.70it/s]
Power Factorization: 80%	402/500 [03:08<00:35,	2.73it/s]
Power Factorization: 81%	403/500 [03:08<00:36,	2.65it/s]
Power Factorization: 81%	404/500 [03:08<00:36,	2.61it/s]
Power Factorization: 81%	405/500 [03:09<00:35,	2.66it/s]
Power Factorization: 81%	406/500 [03:09<00:35,	2.62it/s]

Power Factorization: 81%	407/500 [03:10<00:34,	2.67it/s]
Power Factorization: 82%	408/500 [03:10<00:34,	2.70it/s]
Power Factorization: 82%	409/500 [03:10<00:33,	2.74it/s]
Power Factorization: 82%	410/500 [03:11<00:33,	2.69it/s]
Power Factorization: 82%	411/500 [03:11<00:33,	2.68it/s]
Power Factorization: 82%	412/500 [03:11<00:34,	2.57it/s]
Power Factorization: 83%	413/500 [03:12<00:34,	2.51it/s]
Power Factorization: 83%	414/500 [03:12<00:34,	2.47it/s]
Power Factorization: 83%	415/500 [03:13<00:33,	2.54it/s]
Power Factorization: 83%	416/500 [03:13<00:33,	2.52it/s]
Power Factorization: 83%	417/500 [03:13<00:33,	2.48it/s]
Power Factorization: 84%	418/500 [03:14<00:31,	2.56it/s]
Power Factorization: 84%	419/500 [03:14<00:31,	2.59it/s]
Power Factorization: 84%	420/500 [03:15<00:30,	2.67it/s]
Power Factorization: 84%	421/500 [03:15<00:30,	2.61it/s]
Power Factorization: 84%	422/500 [03:15<00:29,	2.65it/s]
Power Factorization: 85%	423/500 [03:16<00:28,	2.67it/s]
Power Factorization: 85%	424/500 [03:16<00:29,	2.62it/s]
Power Factorization: 85%	425/500 [03:16<00:29,	2.57it/s]
Power Factorization: 85%	426/500 [03:17<00:28,	2.60it/s]
Power Factorization: 85%	427/500 [03:17<00:28,	2.58it/s]
Power Factorization: 86%	428/500 [03:18<00:27,	2.60it/s]
Power Factorization: 86%	429/500 [03:18<00:27,	2.61it/s]
Power Factorization: 86%	430/500 [03:18<00:26,	2.64it/s]

Power Factorization: 86%	431/500 [03:19<00:26,	2.63it/s]
Power Factorization: 86%	432/500 [03:19<00:26,	2.60it/s]
Power Factorization: 87%	433/500 [03:20<00:25,	2.61it/s]
Power Factorization: 87%	434/500 [03:20<00:25,	2.63it/s]
Power Factorization: 87%	435/500 [03:20<00:24,	2.61it/s]
Power Factorization: 87%	436/500 [03:21<00:24,	2.58it/s]
Power Factorization: 87%	437/500 [03:21<00:23,	2.64it/s]
Power Factorization: 88%	438/500 [03:21<00:23,	2.67it/s]
Power Factorization: 88%	439/500 [03:22<00:22,	2.66it/s]
Power Factorization: 88%	440/500 [03:22<00:22,	2.62it/s]
Power Factorization: 88%	441/500 [03:23<00:23,	2.48it/s]
Power Factorization: 88%	442/500 [03:23<00:22,	2.53it/s]
Power Factorization: 89%	443/500 [03:23<00:21,	2.61it/s]
Power Factorization: 89%	444/500 [03:24<00:21,	2.63it/s]
Power Factorization: 89%	445/500 [03:24<00:20,	2.73it/s]
Power Factorization: 89%	446/500 [03:24<00:20,	2.69it/s]
Power Factorization: 89%	447/500 [03:25<00:20,	2.65it/s]
Power Factorization: 90%	448/500 [03:25<00:19,	2.66it/s]
Power Factorization: 90%	449/500 [03:26<00:19,	2.65it/s]
Power Factorization: 90%	450/500 [03:26<00:18,	2.70it/s]
Power Factorization: 90%	451/500 [03:26<00:17,	2.77it/s]
Power Factorization: 90%	452/500 [03:27<00:17,	2.78it/s]
Power Factorization: 91%	453/500 [03:27<00:16,	2.82it/s]
Power Factorization: 91%	454/500 [03:27<00:16,	2.79it/s]

Power Factorization:	91%	455/500 [03:28<00:25,	1.79it/s]
Power Factorization:	91%	456/500 [03:29<00:22,	1.98it/s]
Power Factorization:	91%	457/500 [03:29<00:20,	2.08it/s]
Power Factorization:	92%	458/500 [03:30<00:18,	2.28it/s]
Power Factorization:	92%	459/500 [03:30<00:16,	2.44it/s]
Power Factorization:	92%	460/500 [03:30<00:16,	2.46it/s]
Power Factorization:	92%	461/500 [03:31<00:15,	2.47it/s]
Power Factorization:	92%	462/500 [03:31<00:15,	2.52it/s]
Power Factorization:	93%	463/500 [03:31<00:14,	2.59it/s]
Power Factorization:	93%	464/500 [03:32<00:13,	2.62it/s]
Power Factorization:	93%	465/500 [03:32<00:12,	2.71it/s]
Power Factorization:	93%	466/500 [03:33<00:12,	2.74it/s]
Power Factorization:	93%	467/500 [03:33<00:12,	2.72it/s]
Power Factorization:	94%	468/500 [03:33<00:11,	2.68it/s]
Power Factorization:	94%	469/500 [03:34<00:11,	2.70it/s]
Power Factorization:	94%	470/500 [03:34<00:10,	2.73it/s]
Power Factorization:	94%	471/500 [03:34<00:10,	2.68it/s]
Power Factorization:	94%	472/500 [03:35<00:10,	2.75it/s]
Power Factorization:	95%	473/500 [03:35<00:10,	2.69it/s]
Power Factorization:	95%	474/500 [03:35<00:09,	2.72it/s]
Power Factorization:	95%	475/500 [03:36<00:09,	2.70it/s]
Power Factorization:	95%	476/500 [03:36<00:08,	2.70it/s]
Power Factorization:	95%	477/500 [03:37<00:08,	2.65it/s]
Power Factorization:	96%	478/500 [03:37<00:08,	2.69it/s]

Power Factorization: 96%	479/500 [03:37<00:08, 2.62it/s]
Power Factorization: 96%	480/500 [03:38<00:07, 2.62it/s]
Power Factorization: 96%	481/500 [03:38<00:07, 2.69it/s]
Power Factorization: 96%	482/500 [03:38<00:06, 2.74it/s]
Power Factorization: 97%	483/500 [03:39<00:06, 2.51it/s]
Power Factorization: 97%	484/500 [03:39<00:06, 2.53it/s]
Power Factorization: 97%	485/500 [03:40<00:05, 2.64it/s]
Power Factorization: 97%	486/500 [03:40<00:05, 2.62it/s]
Power Factorization: 97%	487/500 [03:40<00:04, 2.68it/s]
Power Factorization: 98%	488/500 [03:41<00:04, 2.75it/s]
Power Factorization: 98%	489/500 [03:41<00:03, 2.80it/s]
Power Factorization: 98%	490/500 [03:41<00:03, 2.76it/s]
Power Factorization: 98%	491/500 [03:42<00:03, 2.65it/s]
Power Factorization: 98%	492/500 [03:42<00:02, 2.69it/s]
Power Factorization: 99%	493/500 [03:43<00:02, 2.71it/s]
Power Factorization: 99%	494/500 [03:43<00:02, 2.74it/s]
Power Factorization: 99%	495/500 [03:43<00:01, 2.73it/s]
Power Factorization: 99%	496/500 [03:44<00:01, 2.72it/s]
Power Factorization: 99%	497/500 [03:44<00:01, 2.69it/s]
Power Factorization: 100%	498/500 [03:44<00:00, 2.70it/s]
Power Factorization: 100%	499/500 [03:45<00:00, 2.66it/s]
Power Factorization: 100%	500/500 [03:45<00:00, 2.22it/s]
Cross Validation: 80%	4/5 [12:09<03:16, 196.88s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]

Power Factorization:	0%	1/500	[00:00<02:52,	2.90it/s]
Power Factorization:	0%	2/500	[00:00<02:56,	2.82it/s]
Power Factorization:	1%	3/500	[00:01<03:00,	2.75it/s]
Power Factorization:	1%	4/500	[00:01<02:57,	2.79it/s]
Power Factorization:	1%	5/500	[00:01<02:48,	2.93it/s]
Power Factorization:	1%	6/500	[00:02<02:56,	2.80it/s]
Power Factorization:	1%	7/500	[00:02<02:53,	2.85it/s]
Power Factorization:	2%	8/500	[00:02<02:52,	2.86it/s]
Power Factorization:	2%	9/500	[00:03<02:51,	2.87it/s]
Power Factorization:	2%	10/500	[00:03<02:46,	2.94it/s]
Power Factorization:	2%	11/500	[00:03<02:44,	2.97it/s]
Power Factorization:	2%	12/500	[00:04<02:48,	2.89it/s]
Power Factorization:	3%	13/500	[00:04<02:51,	2.83it/s]
Power Factorization:	3%	14/500	[00:04<02:56,	2.76it/s]
Power Factorization:	3%	15/500	[00:05<02:57,	2.74it/s]
Power Factorization:	3%	16/500	[00:05<02:55,	2.75it/s]
Power Factorization:	3%	17/500	[00:06<02:55,	2.76it/s]
Power Factorization:	4%	18/500	[00:06<02:50,	2.83it/s]
Power Factorization:	4%	19/500	[00:06<02:51,	2.80it/s]
Power Factorization:	4%	20/500	[00:07<02:45,	2.89it/s]
Power Factorization:	4%	21/500	[00:07<02:42,	2.95it/s]
Power Factorization:	4%	22/500	[00:07<02:57,	2.69it/s]
Power Factorization:	5%	23/500	[00:08<02:53,	2.74it/s]
Power Factorization:	5%	24/500	[00:08<02:53,	2.74it/s]

Power Factorization:	5%	25/500	[00:08<02:49, 2.81it/s]
Power Factorization:	5%	26/500	[00:09<02:47, 2.83it/s]
Power Factorization:	5%	27/500	[00:09<02:49, 2.79it/s]
Power Factorization:	6%	28/500	[00:09<02:50, 2.77it/s]
Power Factorization:	6%	29/500	[00:10<02:49, 2.77it/s]
Power Factorization:	6%	30/500	[00:10<02:46, 2.83it/s]
Power Factorization:	6%	31/500	[00:11<02:47, 2.81it/s]
Power Factorization:	6%	32/500	[00:11<02:50, 2.75it/s]
Power Factorization:	7%	33/500	[00:11<02:44, 2.83it/s]
Power Factorization:	7%	34/500	[00:12<02:40, 2.91it/s]
Power Factorization:	7%	35/500	[00:12<02:40, 2.89it/s]
Power Factorization:	7%	36/500	[00:12<02:46, 2.78it/s]
Power Factorization:	7%	37/500	[00:13<02:44, 2.82it/s]
Power Factorization:	8%	38/500	[00:13<02:41, 2.86it/s]
Power Factorization:	8%	39/500	[00:13<02:55, 2.63it/s]
Power Factorization:	8%	40/500	[00:14<02:51, 2.68it/s]
Power Factorization:	8%	41/500	[00:14<02:46, 2.75it/s]
Power Factorization:	8%	42/500	[00:14<02:47, 2.74it/s]
Power Factorization:	9%	43/500	[00:15<02:41, 2.83it/s]
Power Factorization:	9%	44/500	[00:15<02:42, 2.81it/s]
Power Factorization:	9%	45/500	[00:16<02:39, 2.86it/s]
Power Factorization:	9%	46/500	[00:16<02:36, 2.90it/s]
Power Factorization:	9%	47/500	[00:16<02:37, 2.88it/s]
Power Factorization:	10%	48/500	[00:17<02:38, 2.85it/s]

Power Factorization: 10%	49/500 [00:17<02:31, 2.98it/s]
Power Factorization: 10%	50/500 [00:17<02:32, 2.95it/s]
Power Factorization: 10%	51/500 [00:18<02:32, 2.94it/s]
Power Factorization: 10%	52/500 [00:18<02:34, 2.89it/s]
Power Factorization: 11%	53/500 [00:18<02:30, 2.96it/s]
Power Factorization: 11%	54/500 [00:19<02:27, 3.03it/s]
Power Factorization: 11%	55/500 [00:19<02:25, 3.06it/s]
Power Factorization: 11%	56/500 [00:19<02:26, 3.02it/s]
Power Factorization: 11%	57/500 [00:20<02:29, 2.96it/s]
Power Factorization: 12%	58/500 [00:20<02:29, 2.95it/s]
Power Factorization: 12%	59/500 [00:20<02:26, 3.01it/s]
Power Factorization: 12%	60/500 [00:21<02:30, 2.92it/s]
Power Factorization: 12%	61/500 [00:21<02:28, 2.95it/s]
Power Factorization: 12%	62/500 [00:21<02:29, 2.92it/s]
Power Factorization: 13%	63/500 [00:22<02:29, 2.92it/s]
Power Factorization: 13%	64/500 [00:22<02:31, 2.87it/s]
Power Factorization: 13%	65/500 [00:22<02:32, 2.85it/s]
Power Factorization: 13%	66/500 [00:23<02:26, 2.95it/s]
Power Factorization: 13%	67/500 [00:23<02:29, 2.91it/s]
Power Factorization: 14%	68/500 [00:23<02:37, 2.74it/s]
Power Factorization: 14%	69/500 [00:24<02:36, 2.75it/s]
Power Factorization: 14%	70/500 [00:24<02:31, 2.83it/s]
Power Factorization: 14%	71/500 [00:24<02:38, 2.71it/s]
Power Factorization: 14%	72/500 [00:25<02:34, 2.78it/s]

Power Factorization: 15%	73/500 [00:25<02:28, 2.88it/s]
Power Factorization: 15%	74/500 [00:25<02:22, 2.98it/s]
Power Factorization: 15%	75/500 [00:26<02:20, 3.03it/s]
Power Factorization: 15%	76/500 [00:26<02:18, 3.05it/s]
Power Factorization: 15%	77/500 [00:26<02:19, 3.03it/s]
Power Factorization: 16%	78/500 [00:27<02:15, 3.12it/s]
Power Factorization: 16%	79/500 [00:27<02:17, 3.06it/s]
Power Factorization: 16%	80/500 [00:27<02:16, 3.07it/s]
Power Factorization: 16%	81/500 [00:28<02:16, 3.06it/s]
Power Factorization: 16%	82/500 [00:28<02:21, 2.96it/s]
Power Factorization: 17%	83/500 [00:28<02:21, 2.95it/s]
Power Factorization: 17%	84/500 [00:29<02:20, 2.96it/s]
Power Factorization: 17%	85/500 [00:29<02:20, 2.95it/s]
Power Factorization: 17%	86/500 [00:29<02:23, 2.89it/s]
Power Factorization: 17%	87/500 [00:30<02:20, 2.93it/s]
Power Factorization: 18%	88/500 [00:30<02:21, 2.92it/s]
Power Factorization: 18%	89/500 [00:30<02:21, 2.91it/s]
Power Factorization: 18%	90/500 [00:31<02:20, 2.92it/s]
Power Factorization: 18%	91/500 [00:31<02:17, 2.98it/s]
Power Factorization: 18%	92/500 [00:32<02:19, 2.92it/s]
Power Factorization: 19%	93/500 [00:32<02:20, 2.89it/s]
Power Factorization: 19%	94/500 [00:32<02:15, 2.99it/s]
Power Factorization: 19%	95/500 [00:32<02:14, 3.01it/s]
Power Factorization: 19%	96/500 [00:33<02:16, 2.96it/s]

Power Factorization: 19%	97/500 [00:33<02:15, 2.97it/s]
Power Factorization: 20%	98/500 [00:34<02:14, 2.98it/s]
Power Factorization: 20%	99/500 [00:34<02:14, 2.98it/s]
Power Factorization: 20%	100/500 [00:34<02:16, 2.94it/s]
Power Factorization: 20%	101/500 [00:35<02:18, 2.88it/s]
Power Factorization: 20%	102/500 [00:35<02:17, 2.90it/s]
Power Factorization: 21%	103/500 [00:35<02:16, 2.90it/s]
Power Factorization: 21%	104/500 [00:36<02:15, 2.91it/s]
Power Factorization: 21%	105/500 [00:36<02:11, 3.01it/s]
Power Factorization: 21%	106/500 [00:36<02:15, 2.91it/s]
Power Factorization: 21%	107/500 [00:37<02:16, 2.88it/s]
Power Factorization: 22%	108/500 [00:37<02:17, 2.85it/s]
Power Factorization: 22%	109/500 [00:37<02:12, 2.94it/s]
Power Factorization: 22%	110/500 [00:38<02:10, 2.98it/s]
Power Factorization: 22%	111/500 [00:38<02:06, 3.08it/s]
Power Factorization: 22%	112/500 [00:38<02:11, 2.95it/s]
Power Factorization: 23%	113/500 [00:39<02:10, 2.97it/s]
Power Factorization: 23%	114/500 [00:39<02:10, 2.96it/s]
Power Factorization: 23%	115/500 [00:39<02:09, 2.97it/s]
Power Factorization: 23%	116/500 [00:40<02:10, 2.93it/s]
Power Factorization: 23%	117/500 [00:40<02:06, 3.03it/s]
Power Factorization: 24%	118/500 [00:40<02:08, 2.98it/s]
Power Factorization: 24%	119/500 [00:41<02:03, 3.09it/s]
Power Factorization: 24%	120/500 [00:41<02:04, 3.06it/s]

Power Factorization: 24%	121/500 [00:41<02:00, 3.14it/s]
Power Factorization: 24%	122/500 [00:42<01:59, 3.18it/s]
Power Factorization: 25%	123/500 [00:42<01:59, 3.14it/s]
Power Factorization: 25%	124/500 [00:42<01:57, 3.19it/s]
Power Factorization: 25%	125/500 [00:42<02:00, 3.12it/s]
Power Factorization: 25%	126/500 [00:43<02:08, 2.90it/s]
Power Factorization: 25%	127/500 [00:43<02:04, 3.00it/s]
Power Factorization: 26%	128/500 [00:44<02:06, 2.93it/s]
Power Factorization: 26%	129/500 [00:44<02:11, 2.82it/s]
Power Factorization: 26%	130/500 [00:44<02:07, 2.91it/s]
Power Factorization: 26%	131/500 [00:45<02:04, 2.96it/s]
Power Factorization: 26%	132/500 [00:45<02:06, 2.91it/s]
Power Factorization: 27%	133/500 [00:45<02:03, 2.97it/s]
Power Factorization: 27%	134/500 [00:46<02:00, 3.03it/s]
Power Factorization: 27%	135/500 [00:46<01:57, 3.10it/s]
Power Factorization: 27%	136/500 [00:46<02:01, 3.00it/s]
Power Factorization: 27%	137/500 [00:47<01:58, 3.06it/s]
Power Factorization: 28%	138/500 [00:47<01:56, 3.11it/s]
Power Factorization: 28%	139/500 [00:47<01:55, 3.12it/s]
Power Factorization: 28%	140/500 [00:48<01:56, 3.09it/s]
Power Factorization: 28%	141/500 [00:48<01:53, 3.17it/s]
Power Factorization: 28%	142/500 [00:48<01:54, 3.12it/s]
Power Factorization: 29%	143/500 [00:48<01:53, 3.14it/s]
Power Factorization: 29%	144/500 [00:49<01:55, 3.09it/s]

Power Factorization: 29%	145/500 [00:49<01:58, 3.01it/s]
Power Factorization: 29%	146/500 [00:49<01:57, 3.02it/s]
Power Factorization: 29%	147/500 [00:50<01:56, 3.04it/s]
Power Factorization: 30%	148/500 [00:50<01:53, 3.11it/s]
Power Factorization: 30%	149/500 [00:50<01:55, 3.03it/s]
Power Factorization: 30%	150/500 [00:51<02:06, 2.77it/s]
Power Factorization: 30%	151/500 [00:51<02:08, 2.72it/s]
Power Factorization: 30%	152/500 [00:52<02:04, 2.79it/s]
Power Factorization: 31%	153/500 [00:52<02:05, 2.77it/s]
Power Factorization: 31%	154/500 [00:52<02:02, 2.83it/s]
Power Factorization: 31%	155/500 [00:53<02:03, 2.79it/s]
Power Factorization: 31%	156/500 [00:53<01:57, 2.93it/s]
Power Factorization: 31%	157/500 [00:53<02:13, 2.57it/s]
Power Factorization: 32%	158/500 [00:54<03:11, 1.78it/s]
Power Factorization: 32%	159/500 [00:55<02:57, 1.92it/s]
Power Factorization: 32%	160/500 [00:55<02:46, 2.04it/s]
Power Factorization: 32%	161/500 [00:56<02:34, 2.19it/s]
Power Factorization: 32%	162/500 [00:56<02:26, 2.31it/s]
Power Factorization: 33%	163/500 [00:56<02:25, 2.32it/s]
Power Factorization: 33%	164/500 [00:57<02:21, 2.37it/s]
Power Factorization: 33%	165/500 [00:57<02:15, 2.48it/s]
Power Factorization: 33%	166/500 [00:58<02:09, 2.59it/s]
Power Factorization: 33%	167/500 [00:58<02:07, 2.62it/s]
Power Factorization: 34%	168/500 [00:58<02:06, 2.62it/s]

Power Factorization: 34%	169/500 [00:59<02:02,	2.70it/s]
Power Factorization: 34%	170/500 [00:59<01:57,	2.80it/s]
Power Factorization: 34%	171/500 [00:59<01:56,	2.82it/s]
Power Factorization: 34%	172/500 [01:00<01:54,	2.86it/s]
Power Factorization: 35%	173/500 [01:00<01:55,	2.84it/s]
Power Factorization: 35%	174/500 [01:00<01:55,	2.82it/s]
Power Factorization: 35%	175/500 [01:01<01:55,	2.82it/s]
Power Factorization: 35%	176/500 [01:01<01:52,	2.89it/s]
Power Factorization: 35%	177/500 [01:01<01:51,	2.90it/s]
Power Factorization: 36%	178/500 [01:02<01:51,	2.90it/s]
Power Factorization: 36%	179/500 [01:02<01:48,	2.96it/s]
Power Factorization: 36%	180/500 [01:02<01:48,	2.94it/s]
Power Factorization: 36%	181/500 [01:03<01:45,	3.01it/s]
Power Factorization: 36%	182/500 [01:03<01:45,	3.02it/s]
Power Factorization: 37%	183/500 [01:03<01:48,	2.93it/s]
Power Factorization: 37%	184/500 [01:04<01:45,	2.99it/s]
Power Factorization: 37%	185/500 [01:04<01:42,	3.08it/s]
Power Factorization: 37%	186/500 [01:04<01:45,	2.97it/s]
Power Factorization: 37%	187/500 [01:05<01:46,	2.95it/s]
Power Factorization: 38%	188/500 [01:05<01:50,	2.83it/s]
Power Factorization: 38%	189/500 [01:06<01:52,	2.77it/s]
Power Factorization: 38%	190/500 [01:06<01:47,	2.89it/s]
Power Factorization: 38%	191/500 [01:06<01:45,	2.92it/s]
Power Factorization: 38%	192/500 [01:07<01:47,	2.87it/s]

Power Factorization: 39%	193/500 [01:07<01:48,	2.84it/s]
Power Factorization: 39%	194/500 [01:07<01:44,	2.94it/s]
Power Factorization: 39%	195/500 [01:08<01:42,	2.99it/s]
Power Factorization: 39%	196/500 [01:08<01:44,	2.92it/s]
Power Factorization: 39%	197/500 [01:08<01:52,	2.70it/s]
Power Factorization: 40%	198/500 [01:09<01:51,	2.70it/s]
Power Factorization: 40%	199/500 [01:09<01:52,	2.68it/s]
Power Factorization: 40%	200/500 [01:09<01:51,	2.70it/s]
Power Factorization: 40%	201/500 [01:10<01:42,	2.93it/s]
Power Factorization: 40%	202/500 [01:10<01:41,	2.94it/s]
Power Factorization: 41%	203/500 [01:10<01:40,	2.94it/s]
Power Factorization: 41%	204/500 [01:11<01:40,	2.95it/s]
Power Factorization: 41%	205/500 [01:11<01:40,	2.94it/s]
Power Factorization: 41%	206/500 [01:11<01:40,	2.92it/s]
Power Factorization: 41%	207/500 [01:12<01:44,	2.80it/s]
Power Factorization: 42%	208/500 [01:12<01:47,	2.72it/s]
Power Factorization: 42%	209/500 [01:13<01:49,	2.65it/s]
Power Factorization: 42%	210/500 [01:13<01:43,	2.80it/s]
Power Factorization: 42%	211/500 [01:13<01:43,	2.79it/s]
Power Factorization: 42%	212/500 [01:14<01:42,	2.82it/s]
Power Factorization: 43%	213/500 [01:14<01:44,	2.74it/s]
Power Factorization: 43%	214/500 [01:14<01:39,	2.87it/s]
Power Factorization: 43%	215/500 [01:15<01:37,	2.93it/s]
Power Factorization: 43%	216/500 [01:15<01:35,	2.97it/s]

Power Factorization: 43%	217/500 [01:15<01:34, 2.99it/s]
Power Factorization: 44%	218/500 [01:16<01:33, 3.03it/s]
Power Factorization: 44%	219/500 [01:16<01:33, 3.01it/s]
Power Factorization: 44%	220/500 [01:16<01:42, 2.74it/s]
Power Factorization: 44%	221/500 [01:17<01:37, 2.88it/s]
Power Factorization: 44%	222/500 [01:17<01:32, 2.99it/s]
Power Factorization: 45%	223/500 [01:17<01:35, 2.89it/s]
Power Factorization: 45%	224/500 [01:18<01:36, 2.86it/s]
Power Factorization: 45%	225/500 [01:18<01:35, 2.88it/s]
Power Factorization: 45%	226/500 [01:18<01:32, 2.95it/s]
Power Factorization: 45%	227/500 [01:19<01:32, 2.96it/s]
Power Factorization: 46%	228/500 [01:19<01:31, 2.96it/s]
Power Factorization: 46%	229/500 [01:19<01:33, 2.90it/s]
Power Factorization: 46%	230/500 [01:20<01:34, 2.86it/s]
Power Factorization: 46%	231/500 [01:20<01:32, 2.91it/s]
Power Factorization: 46%	232/500 [01:20<01:30, 2.95it/s]
Power Factorization: 47%	233/500 [01:21<01:34, 2.84it/s]
Power Factorization: 47%	234/500 [01:21<01:36, 2.77it/s]
Power Factorization: 47%	235/500 [01:22<01:32, 2.87it/s]
Power Factorization: 47%	236/500 [01:22<01:32, 2.85it/s]
Power Factorization: 47%	237/500 [01:22<01:32, 2.84it/s]
Power Factorization: 48%	238/500 [01:23<01:29, 2.92it/s]
Power Factorization: 48%	239/500 [01:23<01:28, 2.96it/s]
Power Factorization: 48%	240/500 [01:23<01:25, 3.05it/s]

Power Factorization: 48%	241/500 [01:24<01:22, 3.12it/s]
Power Factorization: 48%	242/500 [01:24<01:22, 3.13it/s]
Power Factorization: 49%	243/500 [01:24<01:22, 3.12it/s]
Power Factorization: 49%	244/500 [01:24<01:22, 3.12it/s]
Power Factorization: 49%	245/500 [01:25<01:24, 3.02it/s]
Power Factorization: 49%	246/500 [01:25<01:25, 2.96it/s]
Power Factorization: 49%	247/500 [01:26<01:24, 2.99it/s]
Power Factorization: 50%	248/500 [01:26<01:24, 3.00it/s]
Power Factorization: 50%	249/500 [01:26<01:22, 3.06it/s]
Power Factorization: 50%	250/500 [01:26<01:21, 3.07it/s]
Power Factorization: 50%	251/500 [01:27<01:21, 3.06it/s]
Power Factorization: 50%	252/500 [01:27<01:21, 3.05it/s]
Power Factorization: 51%	253/500 [01:27<01:20, 3.06it/s]
Power Factorization: 51%	254/500 [01:28<01:20, 3.06it/s]
Power Factorization: 51%	255/500 [01:28<01:19, 3.06it/s]
Power Factorization: 51%	256/500 [01:28<01:21, 2.99it/s]
Power Factorization: 51%	257/500 [01:29<01:23, 2.89it/s]
Power Factorization: 52%	258/500 [01:29<01:21, 2.95it/s]
Power Factorization: 52%	259/500 [01:29<01:21, 2.97it/s]
Power Factorization: 52%	260/500 [01:30<01:21, 2.93it/s]
Power Factorization: 52%	261/500 [01:30<01:18, 3.03it/s]
Power Factorization: 52%	262/500 [01:31<01:20, 2.97it/s]
Power Factorization: 53%	263/500 [01:31<01:19, 2.98it/s]
Power Factorization: 53%	264/500 [01:31<01:18, 3.01it/s]

Power Factorization: 53%	265/500 [01:31<01:18, 3.01it/s]
Power Factorization: 53%	266/500 [01:32<01:17, 3.02it/s]
Power Factorization: 53%	267/500 [01:32<01:16, 3.05it/s]
Power Factorization: 54%	268/500 [01:32<01:16, 3.05it/s]
Power Factorization: 54%	269/500 [01:33<01:24, 2.75it/s]
Power Factorization: 54%	270/500 [01:33<01:20, 2.85it/s]
Power Factorization: 54%	271/500 [01:34<01:20, 2.86it/s]
Power Factorization: 54%	272/500 [01:34<01:20, 2.82it/s]
Power Factorization: 55%	273/500 [01:34<01:20, 2.82it/s]
Power Factorization: 55%	274/500 [01:35<01:17, 2.93it/s]
Power Factorization: 55%	275/500 [01:35<01:17, 2.91it/s]
Power Factorization: 55%	276/500 [01:35<01:16, 2.94it/s]
Power Factorization: 55%	277/500 [01:36<01:15, 2.96it/s]
Power Factorization: 56%	278/500 [01:36<01:12, 3.06it/s]
Power Factorization: 56%	279/500 [01:36<01:12, 3.05it/s]
Power Factorization: 56%	280/500 [01:37<01:13, 2.99it/s]
Power Factorization: 56%	281/500 [01:37<01:15, 2.92it/s]
Power Factorization: 56%	282/500 [01:37<01:13, 2.98it/s]
Power Factorization: 57%	283/500 [01:38<01:11, 3.04it/s]
Power Factorization: 57%	284/500 [01:38<01:11, 3.00it/s]
Power Factorization: 57%	285/500 [01:38<01:14, 2.87it/s]
Power Factorization: 57%	286/500 [01:39<01:14, 2.87it/s]
Power Factorization: 57%	287/500 [01:39<01:14, 2.87it/s]
Power Factorization: 58%	288/500 [01:39<01:14, 2.83it/s]

Power Factorization: 58%	289/500 [01:40<01:19, 2.67it/s]
Power Factorization: 58%	290/500 [01:40<01:13, 2.87it/s]
Power Factorization: 58%	291/500 [01:40<01:15, 2.78it/s]
Power Factorization: 58%	292/500 [01:41<01:11, 2.91it/s]
Power Factorization: 59%	293/500 [01:41<01:09, 2.97it/s]
Power Factorization: 59%	294/500 [01:41<01:09, 2.97it/s]
Power Factorization: 59%	295/500 [01:42<01:10, 2.92it/s]
Power Factorization: 59%	296/500 [01:42<01:09, 2.93it/s]
Power Factorization: 59%	297/500 [01:42<01:08, 2.97it/s]
Power Factorization: 60%	298/500 [01:43<01:07, 2.99it/s]
Power Factorization: 60%	299/500 [01:43<01:07, 2.98it/s]
Power Factorization: 60%	300/500 [01:43<01:07, 2.95it/s]
Power Factorization: 60%	301/500 [01:44<01:06, 3.01it/s]
Power Factorization: 60%	302/500 [01:44<01:04, 3.05it/s]
Power Factorization: 61%	303/500 [01:44<01:04, 3.07it/s]
Power Factorization: 61%	304/500 [01:45<01:05, 3.00it/s]
Power Factorization: 61%	305/500 [01:45<01:05, 2.97it/s]
Power Factorization: 61%	306/500 [01:45<01:06, 2.93it/s]
Power Factorization: 61%	307/500 [01:46<01:05, 2.95it/s]
Power Factorization: 62%	308/500 [01:46<01:04, 2.96it/s]
Power Factorization: 62%	309/500 [01:46<01:04, 2.98it/s]
Power Factorization: 62%	310/500 [01:47<01:03, 3.01it/s]
Power Factorization: 62%	311/500 [01:47<01:01, 3.09it/s]
Power Factorization: 62%	312/500 [01:47<01:03, 2.98it/s]

Power Factorization: 63%	313/500 [01:48<01:02, 2.99it/s]
Power Factorization: 63%	314/500 [01:48<01:02, 2.99it/s]
Power Factorization: 63%	315/500 [01:48<01:01, 2.99it/s]
Power Factorization: 63%	316/500 [01:49<01:03, 2.92it/s]
Power Factorization: 63%	317/500 [01:49<01:03, 2.88it/s]
Power Factorization: 64%	318/500 [01:50<01:01, 2.97it/s]
Power Factorization: 64%	319/500 [01:50<01:03, 2.86it/s]
Power Factorization: 64%	320/500 [01:50<01:01, 2.92it/s]
Power Factorization: 64%	321/500 [01:51<01:00, 2.96it/s]
Power Factorization: 64%	322/500 [01:51<01:01, 2.87it/s]
Power Factorization: 65%	323/500 [01:51<01:04, 2.74it/s]
Power Factorization: 65%	324/500 [01:52<01:01, 2.84it/s]
Power Factorization: 65%	325/500 [01:52<01:01, 2.86it/s]
Power Factorization: 65%	326/500 [01:52<00:59, 2.95it/s]
Power Factorization: 65%	327/500 [01:53<00:59, 2.93it/s]
Power Factorization: 66%	328/500 [01:53<00:57, 2.97it/s]
Power Factorization: 66%	329/500 [01:53<00:58, 2.93it/s]
Power Factorization: 66%	330/500 [01:54<00:58, 2.92it/s]
Power Factorization: 66%	331/500 [01:54<00:58, 2.88it/s]
Power Factorization: 66%	332/500 [01:54<00:57, 2.93it/s]
Power Factorization: 67%	333/500 [01:55<00:58, 2.83it/s]
Power Factorization: 67%	334/500 [01:55<01:00, 2.73it/s]
Power Factorization: 67%	335/500 [01:55<00:57, 2.87it/s]
Power Factorization: 67%	336/500 [01:56<00:56, 2.91it/s]

Power Factorization: 67%	337/500 [01:56<00:55, 2.96it/s]
Power Factorization: 68%	338/500 [01:56<00:56, 2.85it/s]
Power Factorization: 68%	339/500 [01:57<00:54, 2.93it/s]
Power Factorization: 68%	340/500 [01:57<00:53, 2.99it/s]
Power Factorization: 68%	341/500 [01:57<00:53, 2.98it/s]
Power Factorization: 68%	342/500 [01:58<00:52, 2.98it/s]
Power Factorization: 69%	343/500 [01:58<00:52, 3.00it/s]
Power Factorization: 69%	344/500 [01:58<00:51, 3.01it/s]
Power Factorization: 69%	345/500 [01:59<00:51, 2.98it/s]
Power Factorization: 69%	346/500 [01:59<00:51, 2.97it/s]
Power Factorization: 69%	347/500 [01:59<00:51, 3.00it/s]
Power Factorization: 70%	348/500 [02:00<00:50, 3.00it/s]
Power Factorization: 70%	349/500 [02:00<00:53, 2.81it/s]
Power Factorization: 70%	350/500 [02:01<00:51, 2.92it/s]
Power Factorization: 70%	351/500 [02:01<00:49, 3.00it/s]
Power Factorization: 70%	352/500 [02:01<00:49, 2.98it/s]
Power Factorization: 71%	353/500 [02:02<00:54, 2.72it/s]
Power Factorization: 71%	354/500 [02:02<00:53, 2.72it/s]
Power Factorization: 71%	355/500 [02:02<00:52, 2.77it/s]
Power Factorization: 71%	356/500 [02:03<00:51, 2.79it/s]
Power Factorization: 71%	357/500 [02:03<00:52, 2.74it/s]
Power Factorization: 72%	358/500 [02:03<00:51, 2.76it/s]
Power Factorization: 72%	359/500 [02:04<00:49, 2.86it/s]
Power Factorization: 72%	360/500 [02:04<00:48, 2.88it/s]

Power Factorization: 72%	361/500 [02:04<00:48,	2.87it/s]
Power Factorization: 72%	362/500 [02:05<00:49,	2.80it/s]
Power Factorization: 73%	363/500 [02:05<00:50,	2.69it/s]
Power Factorization: 73%	364/500 [02:06<00:50,	2.71it/s]
Power Factorization: 73%	365/500 [02:06<00:51,	2.64it/s]
Power Factorization: 73%	366/500 [02:06<00:51,	2.60it/s]
Power Factorization: 73%	367/500 [02:07<00:52,	2.55it/s]
Power Factorization: 74%	368/500 [02:07<00:50,	2.63it/s]
Power Factorization: 74%	369/500 [02:07<00:47,	2.77it/s]
Power Factorization: 74%	370/500 [02:08<00:45,	2.86it/s]
Power Factorization: 74%	371/500 [02:08<00:44,	2.87it/s]
Power Factorization: 74%	372/500 [02:08<00:44,	2.88it/s]
Power Factorization: 75%	373/500 [02:09<00:44,	2.88it/s]
Power Factorization: 75%	374/500 [02:09<00:44,	2.85it/s]
Power Factorization: 75%	375/500 [02:10<00:43,	2.90it/s]
Power Factorization: 75%	376/500 [02:10<00:43,	2.85it/s]
Power Factorization: 75%	377/500 [02:10<00:42,	2.88it/s]
Power Factorization: 76%	378/500 [02:11<00:42,	2.89it/s]
Power Factorization: 76%	379/500 [02:11<00:41,	2.93it/s]
Power Factorization: 76%	380/500 [02:11<00:40,	2.95it/s]
Power Factorization: 76%	381/500 [02:12<00:40,	2.91it/s]
Power Factorization: 76%	382/500 [02:12<00:40,	2.95it/s]
Power Factorization: 77%	383/500 [02:12<00:39,	2.93it/s]
Power Factorization: 77%	384/500 [02:13<00:39,	2.93it/s]

Power Factorization: 77%	385/500 [02:13<00:38,	2.97it/s]
Power Factorization: 77%	386/500 [02:13<00:38,	2.95it/s]
Power Factorization: 77%	387/500 [02:14<00:38,	2.97it/s]
Power Factorization: 78%	388/500 [02:14<00:37,	3.01it/s]
Power Factorization: 78%	389/500 [02:14<00:36,	3.03it/s]
Power Factorization: 78%	390/500 [02:15<00:37,	2.93it/s]
Power Factorization: 78%	391/500 [02:15<00:38,	2.86it/s]
Power Factorization: 78%	392/500 [02:15<00:39,	2.74it/s]
Power Factorization: 79%	393/500 [02:16<00:40,	2.63it/s]
Power Factorization: 79%	394/500 [02:16<00:41,	2.59it/s]
Power Factorization: 79%	395/500 [02:17<00:39,	2.63it/s]
Power Factorization: 79%	396/500 [02:17<00:39,	2.66it/s]
Power Factorization: 79%	397/500 [02:17<00:37,	2.76it/s]
Power Factorization: 80%	398/500 [02:18<00:36,	2.78it/s]
Power Factorization: 80%	399/500 [02:18<00:36,	2.73it/s]
Power Factorization: 80%	400/500 [02:18<00:36,	2.76it/s]
Power Factorization: 80%	401/500 [02:19<00:35,	2.78it/s]
Power Factorization: 80%	402/500 [02:19<00:34,	2.84it/s]
Power Factorization: 81%	403/500 [02:19<00:33,	2.89it/s]
Power Factorization: 81%	404/500 [02:20<00:33,	2.86it/s]
Power Factorization: 81%	405/500 [02:20<00:33,	2.84it/s]
Power Factorization: 81%	406/500 [02:20<00:34,	2.75it/s]
Power Factorization: 81%	407/500 [02:21<00:33,	2.76it/s]
Power Factorization: 82%	408/500 [02:21<00:33,	2.73it/s]

Power Factorization: 82%	409/500 [02:22<00:32,	2.83it/s]
Power Factorization: 82%	410/500 [02:22<00:31,	2.84it/s]
Power Factorization: 82%	411/500 [02:22<00:31,	2.84it/s]
Power Factorization: 82%	412/500 [02:23<00:30,	2.88it/s]
Power Factorization: 83%	413/500 [02:23<00:29,	2.94it/s]
Power Factorization: 83%	414/500 [02:23<00:29,	2.91it/s]
Power Factorization: 83%	415/500 [02:24<00:28,	2.95it/s]
Power Factorization: 83%	416/500 [02:24<00:27,	3.01it/s]
Power Factorization: 83%	417/500 [02:24<00:27,	3.02it/s]
Power Factorization: 84%	418/500 [02:25<00:26,	3.04it/s]
Power Factorization: 84%	419/500 [02:25<00:27,	2.98it/s]
Power Factorization: 84%	420/500 [02:25<00:29,	2.74it/s]
Power Factorization: 84%	421/500 [02:26<00:28,	2.80it/s]
Power Factorization: 84%	422/500 [02:26<00:26,	2.90it/s]
Power Factorization: 85%	423/500 [02:26<00:26,	2.89it/s]
Power Factorization: 85%	424/500 [02:27<00:26,	2.90it/s]
Power Factorization: 85%	425/500 [02:27<00:25,	2.90it/s]
Power Factorization: 85%	426/500 [02:27<00:25,	2.90it/s]
Power Factorization: 85%	427/500 [02:28<00:25,	2.85it/s]
Power Factorization: 86%	428/500 [02:28<00:25,	2.81it/s]
Power Factorization: 86%	429/500 [02:28<00:24,	2.90it/s]
Power Factorization: 86%	430/500 [02:29<00:24,	2.92it/s]
Power Factorization: 86%	431/500 [02:29<00:23,	2.91it/s]
Power Factorization: 86%	432/500 [02:29<00:23,	2.94it/s]

Power Factorization: 87%	433/500 [02:30<00:22,	2.96it/s]
Power Factorization: 87%	434/500 [02:30<00:22,	2.94it/s]
Power Factorization: 87%	435/500 [02:30<00:22,	2.84it/s]
Power Factorization: 87%	436/500 [02:31<00:22,	2.90it/s]
Power Factorization: 87%	437/500 [02:31<00:21,	2.91it/s]
Power Factorization: 88%	438/500 [02:31<00:21,	2.90it/s]
Power Factorization: 88%	439/500 [02:32<00:21,	2.86it/s]
Power Factorization: 88%	440/500 [02:32<00:20,	2.94it/s]
Power Factorization: 88%	441/500 [02:33<00:20,	2.94it/s]
Power Factorization: 88%	442/500 [02:33<00:20,	2.88it/s]
Power Factorization: 89%	443/500 [02:33<00:21,	2.68it/s]
Power Factorization: 89%	444/500 [02:34<00:21,	2.65it/s]
Power Factorization: 89%	445/500 [02:34<00:20,	2.72it/s]
Power Factorization: 89%	446/500 [02:34<00:19,	2.70it/s]
Power Factorization: 89%	447/500 [02:35<00:18,	2.80it/s]
Power Factorization: 90%	448/500 [02:35<00:18,	2.87it/s]
Power Factorization: 90%	449/500 [02:35<00:17,	2.84it/s]
Power Factorization: 90%	450/500 [02:36<00:18,	2.75it/s]
Power Factorization: 90%	451/500 [02:36<00:17,	2.76it/s]
Power Factorization: 90%	452/500 [02:37<00:17,	2.75it/s]
Power Factorization: 91%	453/500 [02:37<00:17,	2.73it/s]
Power Factorization: 91%	454/500 [02:37<00:16,	2.77it/s]
Power Factorization: 91%	455/500 [02:38<00:15,	2.84it/s]
Power Factorization: 91%	456/500 [02:38<00:15,	2.89it/s]

Power Factorization: 91%	457/500 [02:38<00:15, 2.86it/s]
Power Factorization: 92%	458/500 [02:39<00:15, 2.69it/s]
Power Factorization: 92%	459/500 [02:39<00:14, 2.76it/s]
Power Factorization: 92%	460/500 [02:39<00:14, 2.75it/s]
Power Factorization: 92%	461/500 [02:40<00:13, 2.86it/s]
Power Factorization: 92%	462/500 [02:40<00:13, 2.86it/s]
Power Factorization: 93%	463/500 [02:40<00:12, 2.85it/s]
Power Factorization: 93%	464/500 [02:41<00:12, 2.90it/s]
Power Factorization: 93%	465/500 [02:41<00:12, 2.85it/s]
Power Factorization: 93%	466/500 [02:41<00:11, 2.88it/s]
Power Factorization: 93%	467/500 [02:42<00:11, 2.93it/s]
Power Factorization: 94%	468/500 [02:42<00:11, 2.87it/s]
Power Factorization: 94%	469/500 [02:43<00:10, 2.92it/s]
Power Factorization: 94%	470/500 [02:43<00:10, 2.94it/s]
Power Factorization: 94%	471/500 [02:43<00:09, 2.95it/s]
Power Factorization: 94%	472/500 [02:44<00:09, 2.95it/s]
Power Factorization: 95%	473/500 [02:44<00:09, 2.87it/s]
Power Factorization: 95%	474/500 [02:44<00:09, 2.86it/s]
Power Factorization: 95%	475/500 [02:45<00:08, 2.87it/s]
Power Factorization: 95%	476/500 [02:45<00:08, 2.94it/s]
Power Factorization: 95%	477/500 [02:45<00:07, 2.89it/s]
Power Factorization: 96%	478/500 [02:46<00:07, 2.89it/s]
Power Factorization: 96%	479/500 [02:46<00:07, 2.93it/s]
Power Factorization: 96%	480/500 [02:46<00:06, 2.89it/s]

Power Factorization: 96%| | 481/500 [02:47<00:06, 2.86it/s]

Power Factorization: 96%| | 482/500 [02:47<00:06, 2.79it/s]

Power Factorization: 97%| | 483/500 [02:47<00:06, 2.59it/s]

Power Factorization: 97%| | 484/500 [02:48<00:06, 2.60it/s]

Power Factorization: 97%| | 485/500 [02:48<00:05, 2.68it/s]

Power Factorization: 97%| | 486/500 [02:49<00:05, 2.78it/s]

Power Factorization: 97%| | 487/500 [02:49<00:04, 2.75it/s]

Power Factorization: 98%| | 488/500 [02:49<00:04, 2.80it/s]

Power Factorization: 98%| | 489/500 [02:50<00:03, 2.82it/s]

Power Factorization: 98%| | 490/500 [02:50<00:03, 2.81it/s]

Power Factorization: 98%| | 491/500 [02:50<00:03, 2.79it/s]

Power Factorization: 98%| | 492/500 [02:51<00:02, 2.81it/s]

Power Factorization: 99%| | 493/500 [02:51<00:02, 2.66it/s]

Power Factorization: 99%| | 494/500 [02:52<00:02, 2.59it/s]

Power Factorization: 99%| | 495/500 [02:52<00:01, 2.68it/s]

Power Factorization: 99%| | 496/500 [02:52<00:01, 2.70it/s]

Power Factorization: 99%| | 497/500 [02:53<00:01, 2.74it/s]

Power Factorization: 100%| | 498/500 [02:53<00:00, 2.74it/s]

Power Factorization: 100%| | 499/500 [02:53<00:00, 2.76it/s]

Power Factorization: 100%| | 500/500 [02:54<00:00, 2.87it/s]

Cross Validation: 100%| | 5/5 [15:03<00:00, 180.72s/it]

Grid Search: 44%| | 7/16 [1:00:26<1:39:14, 661.56s/it]

Average RMS for k=10, lambda=10: 2.5665, Execution time: 180.6491s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<03:14, 2.57it/s]
Power Factorization:	0%	2/500 [00:00<03:03, 2.71it/s]
Power Factorization:	1%	3/500 [00:01<02:56, 2.81it/s]
Power Factorization:	1%	4/500 [00:01<02:52, 2.87it/s]
Power Factorization:	1%	5/500 [00:01<02:51, 2.89it/s]
Power Factorization:	1%	6/500 [00:02<02:48, 2.94it/s]
Power Factorization:	1%	7/500 [00:02<02:46, 2.96it/s]
Power Factorization:	2%	8/500 [00:02<02:49, 2.91it/s]
Power Factorization:	2%	9/500 [00:03<02:47, 2.93it/s]
Power Factorization:	2%	10/500 [00:03<02:48, 2.91it/s]
Power Factorization:	2%	11/500 [00:03<02:50, 2.87it/s]
Power Factorization:	2%	12/500 [00:04<03:02, 2.68it/s]
Cross Validation:	20%	1/5 [00:04<00:18, 4.54s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<02:51, 2.90it/s]
Power Factorization:	0%	2/500 [00:00<02:49, 2.94it/s]
Power Factorization:	1%	3/500 [00:01<02:51, 2.91it/s]
Power Factorization:	1%	4/500 [00:01<03:01, 2.73it/s]
Power Factorization:	1%	5/500 [00:01<03:03, 2.70it/s]
Power Factorization:	1%	6/500 [00:02<02:56, 2.80it/s]
Power Factorization:	1%	7/500 [00:02<02:52, 2.86it/s]
Power Factorization:	2%	8/500 [00:02<02:51, 2.88it/s]
Power Factorization:	2%	9/500 [00:03<02:53, 2.83it/s]

Power Factorization:	2%	10/500 [00:03<02:50, 2.88it/s]
Power Factorization:	2%	11/500 [00:03<02:45, 2.95it/s]
Power Factorization:	2%	12/500 [00:04<02:58, 2.74it/s]
Cross Validation:	40%	2/5 [00:09<00:13, 4.49s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<03:23, 2.45it/s]
Power Factorization:	0%	2/500 [00:00<03:00, 2.76it/s]
Power Factorization:	1%	3/500 [00:01<02:54, 2.86it/s]
Power Factorization:	1%	4/500 [00:01<02:55, 2.83it/s]
Power Factorization:	1%	5/500 [00:01<02:50, 2.90it/s]
Power Factorization:	1%	6/500 [00:02<02:52, 2.87it/s]
Power Factorization:	1%	7/500 [00:02<02:47, 2.95it/s]
Power Factorization:	2%	8/500 [00:02<02:49, 2.90it/s]
Power Factorization:	2%	9/500 [00:03<02:49, 2.90it/s]
Power Factorization:	2%	10/500 [00:03<02:54, 2.81it/s]
Power Factorization:	2%	11/500 [00:03<03:03, 2.67it/s]
Power Factorization:	2%	12/500 [00:04<03:00, 2.70it/s]
Cross Validation:	60%	3/5 [00:13<00:09, 4.51s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<02:55, 2.84it/s]
Power Factorization:	0%	2/500 [00:00<02:48, 2.95it/s]
Power Factorization:	1%	3/500 [00:01<02:58, 2.79it/s]
Power Factorization:	1%	4/500 [00:01<02:53, 2.86it/s]
Power Factorization:	1%	5/500 [00:01<02:54, 2.84it/s]

Power Factorization: 1%| | 6/500 [00:02<02:54, 2.83it/s]

Power Factorization: 1%| | 7/500 [00:02<02:51, 2.87it/s]

Power Factorization: 2%| | 8/500 [00:02<02:50, 2.89it/s]

Power Factorization: 2%| | 9/500 [00:03<02:51, 2.86it/s]

Power Factorization: 2%| | 10/500 [00:03<02:51, 2.85it/s]

Power Factorization: 2%| | 11/500 [00:03<02:54, 2.80it/s]

Power Factorization: 2%| | 12/500 [00:04<02:58, 2.73it/s]

Cross Validation: 80%| | 4/5 [00:17<00:04, 4.49s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:45, 3.02it/s]

Power Factorization: 0%| | 2/500 [00:00<02:47, 2.98it/s]

Power Factorization: 1%| | 3/500 [00:01<02:45, 3.00it/s]

Power Factorization: 1%| | 4/500 [00:01<02:44, 3.01it/s]

Power Factorization: 1%| | 5/500 [00:01<02:44, 3.01it/s]

Power Factorization: 1%| | 6/500 [00:01<02:43, 3.02it/s]

Power Factorization: 1%| | 7/500 [00:02<02:46, 2.96it/s]

Power Factorization: 2%| | 8/500 [00:02<02:49, 2.90it/s]

Power Factorization: 2%| | 9/500 [00:03<02:48, 2.91it/s]

Power Factorization: 2%| | 10/500 [00:03<02:49, 2.90it/s]

Power Factorization: 2%| | 11/500 [00:03<02:52, 2.83it/s]

Power Factorization: 2%| | 12/500 [00:04<02:53, 2.82it/s]

Cross Validation: 100%| | 5/5 [00:22<00:00, 4.47s/it]

Grid Search: 50%| | 8/16 [1:00:49<1:01:04, 458.07s/it]

Average RMS for k=10, lambda=100: 5.1246, Execution time: 4.3978s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<03:24, 2.43it/s]
Power Factorization:	0%	2/500 [00:00<03:26, 2.41it/s]
Power Factorization:	1%	3/500 [00:01<03:22, 2.45it/s]
Power Factorization:	1%	4/500 [00:01<03:16, 2.52it/s]
Power Factorization:	1%	5/500 [00:01<03:13, 2.56it/s]
Power Factorization:	1%	6/500 [00:02<03:08, 2.63it/s]
Power Factorization:	1%	7/500 [00:02<03:06, 2.64it/s]
Power Factorization:	2%	8/500 [00:03<03:05, 2.66it/s]
Power Factorization:	2%	9/500 [00:03<03:10, 2.57it/s]
Power Factorization:	2%	10/500 [00:03<03:08, 2.60it/s]
Power Factorization:	2%	11/500 [00:04<03:11, 2.55it/s]
Power Factorization:	2%	12/500 [00:04<03:08, 2.58it/s]
Power Factorization:	3%	13/500 [00:05<03:08, 2.58it/s]
Power Factorization:	3%	14/500 [00:05<03:03, 2.65it/s]
Power Factorization:	3%	15/500 [00:05<03:00, 2.68it/s]
Power Factorization:	3%	16/500 [00:06<03:02, 2.65it/s]
Power Factorization:	3%	17/500 [00:06<03:05, 2.61it/s]
Power Factorization:	4%	18/500 [00:07<03:18, 2.43it/s]
Power Factorization:	4%	19/500 [00:07<03:11, 2.51it/s]
Power Factorization:	4%	20/500 [00:07<03:09, 2.54it/s]
Power Factorization:	4%	21/500 [00:08<03:05, 2.58it/s]
Power Factorization:	4%	22/500 [00:08<03:03, 2.60it/s]
Power Factorization:	5%	23/500 [00:08<03:00, 2.64it/s]

Power Factorization:	5%	24/500	[00:09<03:00,	2.64it/s]
Power Factorization:	5%	25/500	[00:10<04:16,	1.85it/s]
Power Factorization:	5%	26/500	[00:10<04:09,	1.90it/s]
Power Factorization:	5%	27/500	[00:11<03:57,	1.99it/s]
Power Factorization:	6%	28/500	[00:11<03:43,	2.11it/s]
Power Factorization:	6%	29/500	[00:11<03:32,	2.22it/s]
Power Factorization:	6%	30/500	[00:12<03:26,	2.28it/s]
Power Factorization:	6%	31/500	[00:12<03:17,	2.37it/s]
Power Factorization:	6%	32/500	[00:13<03:10,	2.45it/s]
Power Factorization:	7%	33/500	[00:13<03:05,	2.52it/s]
Power Factorization:	7%	34/500	[00:13<03:04,	2.52it/s]
Power Factorization:	7%	35/500	[00:14<03:14,	2.39it/s]
Power Factorization:	7%	36/500	[00:14<03:12,	2.41it/s]
Power Factorization:	7%	37/500	[00:15<03:09,	2.44it/s]
Power Factorization:	8%	38/500	[00:15<03:14,	2.38it/s]
Power Factorization:	8%	39/500	[00:15<03:08,	2.44it/s]
Power Factorization:	8%	40/500	[00:16<03:04,	2.49it/s]
Power Factorization:	8%	41/500	[00:16<03:01,	2.53it/s]
Power Factorization:	8%	42/500	[00:17<02:56,	2.59it/s]
Power Factorization:	9%	43/500	[00:17<03:03,	2.49it/s]
Power Factorization:	9%	44/500	[00:17<03:02,	2.50it/s]
Power Factorization:	9%	45/500	[00:18<02:58,	2.55it/s]
Power Factorization:	9%	46/500	[00:18<02:55,	2.58it/s]
Power Factorization:	9%	47/500	[00:19<02:53,	2.61it/s]

Power Factorization: 10%	48/500 [00:19<02:54, 2.59it/s]
Power Factorization: 10%	49/500 [00:19<02:54, 2.59it/s]
Power Factorization: 10%	50/500 [00:20<03:04, 2.44it/s]
Power Factorization: 10%	51/500 [00:20<03:05, 2.42it/s]
Power Factorization: 10%	52/500 [00:21<03:00, 2.48it/s]
Power Factorization: 11%	53/500 [00:21<03:00, 2.47it/s]
Power Factorization: 11%	54/500 [00:21<02:57, 2.52it/s]
Power Factorization: 11%	55/500 [00:22<02:56, 2.52it/s]
Power Factorization: 11%	56/500 [00:22<03:03, 2.42it/s]
Power Factorization: 11%	57/500 [00:23<03:04, 2.40it/s]
Power Factorization: 12%	58/500 [00:23<03:02, 2.43it/s]
Power Factorization: 12%	59/500 [00:23<02:59, 2.45it/s]
Power Factorization: 12%	60/500 [00:24<03:00, 2.44it/s]
Power Factorization: 12%	61/500 [00:24<02:55, 2.51it/s]
Power Factorization: 12%	62/500 [00:25<02:54, 2.51it/s]
Power Factorization: 13%	63/500 [00:25<02:54, 2.51it/s]
Power Factorization: 13%	64/500 [00:25<02:54, 2.50it/s]
Power Factorization: 13%	65/500 [00:26<02:55, 2.48it/s]
Power Factorization: 13%	66/500 [00:26<02:54, 2.49it/s]
Power Factorization: 13%	67/500 [00:27<02:52, 2.51it/s]
Power Factorization: 14%	68/500 [00:27<02:50, 2.53it/s]
Power Factorization: 14%	69/500 [00:27<02:51, 2.51it/s]
Power Factorization: 14%	70/500 [00:28<02:48, 2.55it/s]
Power Factorization: 14%	71/500 [00:28<02:48, 2.55it/s]

Power Factorization: 14%	72/500 [00:29<02:57, 2.41it/s]
Power Factorization: 15%	73/500 [00:29<02:54, 2.45it/s]
Power Factorization: 15%	74/500 [00:29<02:50, 2.49it/s]
Power Factorization: 15%	75/500 [00:30<02:48, 2.52it/s]
Power Factorization: 15%	76/500 [00:30<02:51, 2.48it/s]
Power Factorization: 15%	77/500 [00:31<02:49, 2.50it/s]
Power Factorization: 16%	78/500 [00:31<02:50, 2.47it/s]
Power Factorization: 16%	79/500 [00:31<02:48, 2.50it/s]
Power Factorization: 16%	80/500 [00:32<02:45, 2.54it/s]
Power Factorization: 16%	81/500 [00:32<02:43, 2.56it/s]
Power Factorization: 16%	82/500 [00:33<02:44, 2.55it/s]
Power Factorization: 17%	83/500 [00:33<02:46, 2.51it/s]
Power Factorization: 17%	84/500 [00:33<02:45, 2.52it/s]
Power Factorization: 17%	85/500 [00:34<02:42, 2.55it/s]
Power Factorization: 17%	86/500 [00:34<02:44, 2.51it/s]
Power Factorization: 17%	87/500 [00:35<02:42, 2.54it/s]
Power Factorization: 18%	88/500 [00:35<02:40, 2.57it/s]
Power Factorization: 18%	89/500 [00:35<02:37, 2.61it/s]
Power Factorization: 18%	90/500 [00:36<02:37, 2.61it/s]
Power Factorization: 18%	91/500 [00:36<02:39, 2.56it/s]
Power Factorization: 18%	92/500 [00:37<02:40, 2.54it/s]
Power Factorization: 19%	93/500 [00:37<02:44, 2.47it/s]
Power Factorization: 19%	94/500 [00:37<02:46, 2.44it/s]
Power Factorization: 19%	95/500 [00:38<02:43, 2.48it/s]

Power Factorization: 19%	96/500 [00:38<02:41, 2.51it/s]
Power Factorization: 19%	97/500 [00:39<02:42, 2.48it/s]
Power Factorization: 20%	98/500 [00:39<02:39, 2.53it/s]
Power Factorization: 20%	99/500 [00:39<02:38, 2.53it/s]
Power Factorization: 20%	100/500 [00:40<02:37, 2.53it/s]
Power Factorization: 20%	101/500 [00:40<02:40, 2.49it/s]
Power Factorization: 20%	102/500 [00:41<02:37, 2.53it/s]
Power Factorization: 21%	103/500 [00:41<02:38, 2.51it/s]
Power Factorization: 21%	104/500 [00:41<02:36, 2.53it/s]
Power Factorization: 21%	105/500 [00:42<02:35, 2.54it/s]
Power Factorization: 21%	106/500 [00:42<02:34, 2.54it/s]
Power Factorization: 21%	107/500 [00:43<02:33, 2.55it/s]
Power Factorization: 22%	108/500 [00:43<02:35, 2.52it/s]
Power Factorization: 22%	109/500 [00:43<02:34, 2.52it/s]
Power Factorization: 22%	110/500 [00:44<02:35, 2.50it/s]
Power Factorization: 22%	111/500 [00:44<02:30, 2.58it/s]
Power Factorization: 22%	112/500 [00:44<02:29, 2.60it/s]
Power Factorization: 23%	113/500 [00:45<02:29, 2.58it/s]
Power Factorization: 23%	114/500 [00:45<02:26, 2.63it/s]
Power Factorization: 23%	115/500 [00:46<02:26, 2.62it/s]
Power Factorization: 23%	116/500 [00:46<02:28, 2.59it/s]
Power Factorization: 23%	117/500 [00:46<02:28, 2.58it/s]
Power Factorization: 24%	118/500 [00:47<02:28, 2.58it/s]
Power Factorization: 24%	119/500 [00:47<02:24, 2.63it/s]

Power Factorization: 24%	120/500 [00:48<02:25, 2.60it/s]
Power Factorization: 24%	121/500 [00:48<02:25, 2.61it/s]
Power Factorization: 24%	122/500 [00:48<02:25, 2.60it/s]
Power Factorization: 25%	123/500 [00:49<02:26, 2.57it/s]
Power Factorization: 25%	124/500 [00:49<02:26, 2.57it/s]
Power Factorization: 25%	125/500 [00:50<02:30, 2.49it/s]
Power Factorization: 25%	126/500 [00:50<02:31, 2.47it/s]
Power Factorization: 25%	127/500 [00:50<02:30, 2.48it/s]
Power Factorization: 26%	128/500 [00:51<02:27, 2.53it/s]
Power Factorization: 26%	129/500 [00:51<02:27, 2.52it/s]
Power Factorization: 26%	130/500 [00:51<02:23, 2.58it/s]
Power Factorization: 26%	131/500 [00:52<02:25, 2.54it/s]
Power Factorization: 26%	132/500 [00:52<02:23, 2.56it/s]
Power Factorization: 27%	133/500 [00:53<02:28, 2.47it/s]
Power Factorization: 27%	134/500 [00:53<02:33, 2.39it/s]
Power Factorization: 27%	135/500 [00:54<02:32, 2.40it/s]
Power Factorization: 27%	136/500 [00:54<02:28, 2.45it/s]
Power Factorization: 27%	137/500 [00:54<02:26, 2.48it/s]
Power Factorization: 28%	138/500 [00:55<02:21, 2.56it/s]
Power Factorization: 28%	139/500 [00:55<02:19, 2.59it/s]
Power Factorization: 28%	140/500 [00:55<02:18, 2.60it/s]
Power Factorization: 28%	141/500 [00:56<02:27, 2.44it/s]
Power Factorization: 28%	142/500 [00:56<02:21, 2.53it/s]
Power Factorization: 29%	143/500 [00:57<02:22, 2.51it/s]

Power Factorization: 29%	144/500 [00:57<02:20, 2.53it/s]
Power Factorization: 29%	145/500 [00:58<02:20, 2.54it/s]
Power Factorization: 29%	146/500 [00:58<02:18, 2.56it/s]
Power Factorization: 29%	147/500 [00:58<02:18, 2.55it/s]
Power Factorization: 30%	148/500 [00:59<02:17, 2.57it/s]
Power Factorization: 30%	149/500 [00:59<02:16, 2.56it/s]
Power Factorization: 30%	150/500 [00:59<02:17, 2.55it/s]
Power Factorization: 30%	151/500 [01:00<02:19, 2.50it/s]
Power Factorization: 30%	152/500 [01:00<02:17, 2.53it/s]
Power Factorization: 31%	153/500 [01:01<02:17, 2.52it/s]
Power Factorization: 31%	154/500 [01:01<02:14, 2.58it/s]
Power Factorization: 31%	155/500 [01:01<02:11, 2.62it/s]
Power Factorization: 31%	156/500 [01:02<02:10, 2.63it/s]
Power Factorization: 31%	157/500 [01:02<02:10, 2.63it/s]
Power Factorization: 32%	158/500 [01:03<02:18, 2.46it/s]
Power Factorization: 32%	159/500 [01:03<02:15, 2.51it/s]
Power Factorization: 32%	160/500 [01:03<02:12, 2.57it/s]
Power Factorization: 32%	161/500 [01:04<02:09, 2.62it/s]
Power Factorization: 32%	162/500 [01:04<02:11, 2.58it/s]
Power Factorization: 33%	163/500 [01:04<02:07, 2.64it/s]
Power Factorization: 33%	164/500 [01:05<02:08, 2.61it/s]
Power Factorization: 33%	165/500 [01:05<02:14, 2.49it/s]
Power Factorization: 33%	166/500 [01:06<02:17, 2.44it/s]
Power Factorization: 33%	167/500 [01:06<02:12, 2.51it/s]

Power Factorization: 34%	168/500 [01:06<02:07,	2.61it/s]
Power Factorization: 34%	169/500 [01:07<02:06,	2.62it/s]
Power Factorization: 34%	170/500 [01:07<02:04,	2.65it/s]
Power Factorization: 34%	171/500 [01:08<02:06,	2.60it/s]
Power Factorization: 34%	172/500 [01:08<02:05,	2.60it/s]
Power Factorization: 35%	173/500 [01:08<02:03,	2.64it/s]
Power Factorization: 35%	174/500 [01:09<02:01,	2.68it/s]
Power Factorization: 35%	175/500 [01:09<02:02,	2.65it/s]
Power Factorization: 35%	176/500 [01:09<02:00,	2.68it/s]
Power Factorization: 35%	177/500 [01:10<02:00,	2.68it/s]
Power Factorization: 36%	178/500 [01:10<02:02,	2.63it/s]
Power Factorization: 36%	179/500 [01:11<02:00,	2.66it/s]
Power Factorization: 36%	180/500 [01:11<02:01,	2.62it/s]
Power Factorization: 36%	181/500 [01:11<01:59,	2.66it/s]
Power Factorization: 36%	182/500 [01:12<02:01,	2.62it/s]
Power Factorization: 37%	183/500 [01:12<02:00,	2.64it/s]
Power Factorization: 37%	184/500 [01:13<02:00,	2.62it/s]
Power Factorization: 37%	185/500 [01:13<02:01,	2.59it/s]
Power Factorization: 37%	186/500 [01:13<01:59,	2.62it/s]
Power Factorization: 37%	187/500 [01:14<01:59,	2.62it/s]
Power Factorization: 38%	188/500 [01:14<01:57,	2.64it/s]
Power Factorization: 38%	189/500 [01:14<01:57,	2.64it/s]
Power Factorization: 38%	190/500 [01:15<01:57,	2.65it/s]
Power Factorization: 38%	191/500 [01:15<01:54,	2.69it/s]

Power Factorization: 38%	192/500 [01:16<02:11, 2.34it/s]
Power Factorization: 39%	193/500 [01:16<02:08, 2.38it/s]
Power Factorization: 39%	194/500 [01:17<02:09, 2.36it/s]
Power Factorization: 39%	195/500 [01:17<02:08, 2.38it/s]
Power Factorization: 39%	196/500 [01:17<02:06, 2.41it/s]
Power Factorization: 39%	197/500 [01:18<02:03, 2.45it/s]
Power Factorization: 40%	198/500 [01:18<01:59, 2.54it/s]
Power Factorization: 40%	199/500 [01:18<01:56, 2.59it/s]
Power Factorization: 40%	200/500 [01:19<01:56, 2.59it/s]
Power Factorization: 40%	201/500 [01:19<01:55, 2.58it/s]
Power Factorization: 40%	202/500 [01:20<02:00, 2.48it/s]
Power Factorization: 41%	203/500 [01:20<01:59, 2.49it/s]
Power Factorization: 41%	204/500 [01:21<01:59, 2.48it/s]
Power Factorization: 41%	205/500 [01:21<01:58, 2.50it/s]
Power Factorization: 41%	206/500 [01:21<01:54, 2.57it/s]
Power Factorization: 41%	207/500 [01:22<01:54, 2.55it/s]
Power Factorization: 42%	208/500 [01:22<01:53, 2.58it/s]
Power Factorization: 42%	209/500 [01:22<01:53, 2.57it/s]
Power Factorization: 42%	210/500 [01:23<01:52, 2.58it/s]
Power Factorization: 42%	211/500 [01:23<01:50, 2.61it/s]
Power Factorization: 42%	212/500 [01:24<01:51, 2.59it/s]
Power Factorization: 43%	213/500 [01:24<01:52, 2.55it/s]
Power Factorization: 43%	214/500 [01:24<01:53, 2.52it/s]
Power Factorization: 43%	215/500 [01:25<01:51, 2.55it/s]

Power Factorization: 43%	216/500 [01:25<01:52, 2.52it/s]
Power Factorization: 43%	217/500 [01:26<01:52, 2.51it/s]
Power Factorization: 44%	218/500 [01:26<01:49, 2.58it/s]
Power Factorization: 44%	219/500 [01:26<01:48, 2.59it/s]
Power Factorization: 44%	220/500 [01:27<01:50, 2.53it/s]
Power Factorization: 44%	221/500 [01:27<01:53, 2.46it/s]
Power Factorization: 44%	222/500 [01:28<01:51, 2.49it/s]
Power Factorization: 45%	223/500 [01:28<01:48, 2.54it/s]
Power Factorization: 45%	224/500 [01:28<01:47, 2.56it/s]
Power Factorization: 45%	225/500 [01:29<01:52, 2.44it/s]
Power Factorization: 45%	226/500 [01:29<01:51, 2.46it/s]
Power Factorization: 45%	227/500 [01:30<01:52, 2.43it/s]
Power Factorization: 46%	228/500 [01:30<01:50, 2.47it/s]
Power Factorization: 46%	229/500 [01:30<01:48, 2.50it/s]
Power Factorization: 46%	230/500 [01:31<01:49, 2.46it/s]
Power Factorization: 46%	231/500 [01:31<01:49, 2.45it/s]
Power Factorization: 46%	232/500 [01:32<01:48, 2.47it/s]
Power Factorization: 47%	233/500 [01:32<01:50, 2.41it/s]
Power Factorization: 47%	234/500 [01:32<01:47, 2.46it/s]
Power Factorization: 47%	235/500 [01:33<01:47, 2.45it/s]
Power Factorization: 47%	236/500 [01:33<01:47, 2.45it/s]
Power Factorization: 47%	237/500 [01:34<01:46, 2.47it/s]
Power Factorization: 48%	238/500 [01:34<01:44, 2.50it/s]
Power Factorization: 48%	239/500 [01:35<01:56, 2.24it/s]

Power Factorization: 48%	240/500 [01:35<01:50, 2.34it/s]
Power Factorization: 48%	241/500 [01:35<01:48, 2.39it/s]
Power Factorization: 48%	242/500 [01:36<01:44, 2.46it/s]
Power Factorization: 49%	243/500 [01:36<01:45, 2.43it/s]
Power Factorization: 49%	244/500 [01:37<01:43, 2.47it/s]
Power Factorization: 49%	245/500 [01:37<01:43, 2.47it/s]
Power Factorization: 49%	246/500 [01:37<01:45, 2.41it/s]
Power Factorization: 49%	247/500 [01:38<01:46, 2.38it/s]
Power Factorization: 50%	248/500 [01:38<01:48, 2.32it/s]
Power Factorization: 50%	249/500 [01:39<01:46, 2.35it/s]
Power Factorization: 50%	250/500 [01:39<01:42, 2.43it/s]
Power Factorization: 50%	251/500 [01:39<01:41, 2.44it/s]
Power Factorization: 50%	252/500 [01:40<01:39, 2.48it/s]
Power Factorization: 51%	253/500 [01:40<01:39, 2.48it/s]
Power Factorization: 51%	254/500 [01:41<01:40, 2.44it/s]
Power Factorization: 51%	255/500 [01:41<01:44, 2.35it/s]
Power Factorization: 51%	256/500 [01:42<01:43, 2.35it/s]
Power Factorization: 51%	257/500 [01:42<01:40, 2.41it/s]
Power Factorization: 52%	258/500 [01:42<01:39, 2.43it/s]
Power Factorization: 52%	259/500 [01:43<01:37, 2.47it/s]
Power Factorization: 52%	260/500 [01:43<01:35, 2.50it/s]
Power Factorization: 52%	261/500 [01:44<01:38, 2.44it/s]
Power Factorization: 52%	262/500 [01:44<01:41, 2.34it/s]
Power Factorization: 53%	263/500 [01:44<01:39, 2.38it/s]

Power Factorization: 53%	264/500 [01:45<01:39, 2.37it/s]
Power Factorization: 53%	265/500 [01:45<01:36, 2.43it/s]
Power Factorization: 53%	266/500 [01:46<01:37, 2.40it/s]
Power Factorization: 53%	267/500 [01:46<01:35, 2.44it/s]
Power Factorization: 54%	268/500 [01:47<01:34, 2.46it/s]
Power Factorization: 54%	269/500 [01:47<01:33, 2.47it/s]
Power Factorization: 54%	270/500 [01:47<01:32, 2.48it/s]
Power Factorization: 54%	271/500 [01:48<01:33, 2.46it/s]
Power Factorization: 54%	272/500 [01:48<01:31, 2.49it/s]
Power Factorization: 55%	273/500 [01:49<01:32, 2.46it/s]
Power Factorization: 55%	274/500 [01:49<01:31, 2.47it/s]
Power Factorization: 55%	275/500 [01:49<01:30, 2.48it/s]
Power Factorization: 55%	276/500 [01:50<01:31, 2.45it/s]
Power Factorization: 55%	277/500 [01:50<01:31, 2.44it/s]
Power Factorization: 56%	278/500 [01:51<01:29, 2.47it/s]
Power Factorization: 56%	279/500 [01:51<01:30, 2.44it/s]
Power Factorization: 56%	280/500 [01:51<01:29, 2.45it/s]
Power Factorization: 56%	281/500 [01:52<01:28, 2.47it/s]
Power Factorization: 56%	282/500 [01:52<01:28, 2.47it/s]
Power Factorization: 57%	283/500 [01:53<01:27, 2.49it/s]
Power Factorization: 57%	284/500 [01:53<01:26, 2.51it/s]
Power Factorization: 57%	285/500 [01:53<01:25, 2.51it/s]
Power Factorization: 57%	286/500 [01:54<01:25, 2.49it/s]
Power Factorization: 57%	287/500 [01:54<01:26, 2.46it/s]

Power Factorization: 58%	288/500 [01:55<01:25, 2.48it/s]
Power Factorization: 58%	289/500 [01:55<01:24, 2.50it/s]
Power Factorization: 58%	290/500 [01:55<01:24, 2.47it/s]
Power Factorization: 58%	291/500 [01:56<01:24, 2.49it/s]
Power Factorization: 58%	292/500 [01:56<01:23, 2.49it/s]
Power Factorization: 59%	293/500 [01:57<01:23, 2.47it/s]
Power Factorization: 59%	294/500 [01:57<01:23, 2.45it/s]
Power Factorization: 59%	295/500 [01:57<01:23, 2.46it/s]
Power Factorization: 59%	296/500 [01:58<01:21, 2.49it/s]
Power Factorization: 59%	297/500 [01:58<01:22, 2.47it/s]
Power Factorization: 60%	298/500 [01:59<01:19, 2.53it/s]
Power Factorization: 60%	299/500 [01:59<01:18, 2.56it/s]
Power Factorization: 60%	300/500 [01:59<01:17, 2.57it/s]
Power Factorization: 60%	301/500 [02:00<01:17, 2.56it/s]
Power Factorization: 60%	302/500 [02:00<01:20, 2.46it/s]
Power Factorization: 61%	303/500 [02:01<01:20, 2.46it/s]
Power Factorization: 61%	304/500 [02:01<01:17, 2.53it/s]
Power Factorization: 61%	305/500 [02:01<01:17, 2.53it/s]
Power Factorization: 61%	306/500 [02:02<01:17, 2.52it/s]
Power Factorization: 61%	307/500 [02:02<01:16, 2.52it/s]
Power Factorization: 62%	308/500 [02:03<01:15, 2.53it/s]
Power Factorization: 62%	309/500 [02:03<01:15, 2.53it/s]
Power Factorization: 62%	310/500 [02:03<01:16, 2.50it/s]
Power Factorization: 62%	311/500 [02:04<01:16, 2.46it/s]

Power Factorization: 62%	312/500 [02:04<01:15, 2.48it/s]
Power Factorization: 63%	313/500 [02:05<01:15, 2.49it/s]
Power Factorization: 63%	314/500 [02:05<01:13, 2.52it/s]
Power Factorization: 63%	315/500 [02:05<01:14, 2.49it/s]
Power Factorization: 63%	316/500 [02:06<01:15, 2.45it/s]
Power Factorization: 63%	317/500 [02:06<01:13, 2.49it/s]
Power Factorization: 64%	318/500 [02:07<01:12, 2.50it/s]
Power Factorization: 64%	319/500 [02:07<01:12, 2.50it/s]
Power Factorization: 64%	320/500 [02:07<01:14, 2.43it/s]
Power Factorization: 64%	321/500 [02:08<01:16, 2.33it/s]
Power Factorization: 64%	322/500 [02:08<01:15, 2.35it/s]
Power Factorization: 65%	323/500 [02:09<01:13, 2.40it/s]
Power Factorization: 65%	324/500 [02:09<01:13, 2.41it/s]
Power Factorization: 65%	325/500 [02:10<01:12, 2.41it/s]
Power Factorization: 65%	326/500 [02:10<01:12, 2.40it/s]
Power Factorization: 65%	327/500 [02:11<01:20, 2.14it/s]
Power Factorization: 66%	328/500 [02:11<01:18, 2.20it/s]
Power Factorization: 66%	329/500 [02:11<01:16, 2.24it/s]
Power Factorization: 66%	330/500 [02:12<01:13, 2.32it/s]
Power Factorization: 66%	331/500 [02:12<01:11, 2.35it/s]
Power Factorization: 66%	332/500 [02:13<01:10, 2.38it/s]
Power Factorization: 67%	333/500 [02:13<01:10, 2.38it/s]
Power Factorization: 67%	334/500 [02:13<01:08, 2.44it/s]
Power Factorization: 67%	335/500 [02:14<01:06, 2.49it/s]

Power Factorization: 67%	336/500 [02:14<01:05, 2.50it/s]
Power Factorization: 67%	337/500 [02:15<01:04, 2.53it/s]
Power Factorization: 68%	338/500 [02:15<01:04, 2.51it/s]
Power Factorization: 68%	339/500 [02:15<01:04, 2.50it/s]
Power Factorization: 68%	340/500 [02:16<01:04, 2.47it/s]
Power Factorization: 68%	341/500 [02:16<01:04, 2.47it/s]
Power Factorization: 68%	342/500 [02:17<01:03, 2.48it/s]
Power Factorization: 69%	343/500 [02:17<01:04, 2.42it/s]
Power Factorization: 69%	344/500 [02:17<01:03, 2.46it/s]
Power Factorization: 69%	345/500 [02:18<01:03, 2.46it/s]
Power Factorization: 69%	346/500 [02:18<01:01, 2.49it/s]
Power Factorization: 69%	347/500 [02:19<01:00, 2.52it/s]
Power Factorization: 70%	348/500 [02:19<01:01, 2.47it/s]
Power Factorization: 70%	349/500 [02:20<01:05, 2.32it/s]
Power Factorization: 70%	350/500 [02:20<01:03, 2.36it/s]
Power Factorization: 70%	351/500 [02:20<01:02, 2.40it/s]
Power Factorization: 70%	352/500 [02:21<01:02, 2.36it/s]
Power Factorization: 71%	353/500 [02:21<01:01, 2.38it/s]
Power Factorization: 71%	354/500 [02:22<01:00, 2.43it/s]
Power Factorization: 71%	355/500 [02:22<00:58, 2.48it/s]
Power Factorization: 71%	356/500 [02:22<00:57, 2.50it/s]
Power Factorization: 71%	357/500 [02:23<00:56, 2.52it/s]
Power Factorization: 72%	358/500 [02:23<00:57, 2.49it/s]
Power Factorization: 72%	359/500 [02:24<00:55, 2.53it/s]

Power Factorization: 72%	360/500 [02:24<00:54, 2.57it/s]
Power Factorization: 72%	361/500 [02:24<00:56, 2.46it/s]
Power Factorization: 72%	362/500 [02:25<00:58, 2.36it/s]
Power Factorization: 73%	363/500 [02:25<00:56, 2.43it/s]
Power Factorization: 73%	364/500 [02:26<00:54, 2.47it/s]
Power Factorization: 73%	365/500 [02:26<00:52, 2.56it/s]
Power Factorization: 73%	366/500 [02:26<00:51, 2.59it/s]
Power Factorization: 73%	367/500 [02:27<00:51, 2.60it/s]
Power Factorization: 74%	368/500 [02:27<00:51, 2.58it/s]
Power Factorization: 74%	369/500 [02:28<00:50, 2.57it/s]
Power Factorization: 74%	370/500 [02:28<00:52, 2.46it/s]
Power Factorization: 74%	371/500 [02:28<00:51, 2.50it/s]
Power Factorization: 74%	372/500 [02:29<00:51, 2.48it/s]
Power Factorization: 75%	373/500 [02:29<00:50, 2.53it/s]
Power Factorization: 75%	374/500 [02:30<00:49, 2.56it/s]
Power Factorization: 75%	375/500 [02:30<00:50, 2.48it/s]
Power Factorization: 75%	376/500 [02:30<00:50, 2.48it/s]
Power Factorization: 75%	377/500 [02:31<00:51, 2.38it/s]
Power Factorization: 76%	378/500 [02:31<00:49, 2.45it/s]
Power Factorization: 76%	379/500 [02:32<00:48, 2.50it/s]
Power Factorization: 76%	380/500 [02:32<00:51, 2.34it/s]
Power Factorization: 76%	381/500 [02:32<00:49, 2.42it/s]
Power Factorization: 76%	382/500 [02:33<00:48, 2.46it/s]
Power Factorization: 77%	383/500 [02:33<00:46, 2.52it/s]

Power Factorization: 77%	384/500 [02:34<00:45,	2.55it/s]
Power Factorization: 77%	385/500 [02:34<00:46,	2.47it/s]
Power Factorization: 77%	386/500 [02:34<00:46,	2.47it/s]
Power Factorization: 77%	387/500 [02:35<00:48,	2.31it/s]
Power Factorization: 78%	388/500 [02:35<00:47,	2.36it/s]
Power Factorization: 78%	389/500 [02:36<00:45,	2.42it/s]
Power Factorization: 78%	390/500 [02:36<00:44,	2.45it/s]
Power Factorization: 78%	391/500 [02:36<00:43,	2.51it/s]
Power Factorization: 78%	392/500 [02:37<00:42,	2.54it/s]
Power Factorization: 79%	393/500 [02:37<00:42,	2.49it/s]
Power Factorization: 79%	394/500 [02:38<00:42,	2.49it/s]
Power Factorization: 79%	395/500 [02:38<00:42,	2.47it/s]
Power Factorization: 79%	396/500 [02:39<00:41,	2.49it/s]
Power Factorization: 79%	397/500 [02:39<00:40,	2.54it/s]
Power Factorization: 80%	398/500 [02:39<00:39,	2.58it/s]
Power Factorization: 80%	399/500 [02:40<00:38,	2.62it/s]
Power Factorization: 80%	400/500 [02:40<00:40,	2.48it/s]
Power Factorization: 80%	401/500 [02:41<00:40,	2.43it/s]
Power Factorization: 80%	402/500 [02:41<00:39,	2.49it/s]
Power Factorization: 81%	403/500 [02:41<00:38,	2.54it/s]
Power Factorization: 81%	404/500 [02:42<00:38,	2.51it/s]
Power Factorization: 81%	405/500 [02:42<00:37,	2.56it/s]
Power Factorization: 81%	406/500 [02:42<00:36,	2.60it/s]
Power Factorization: 81%	407/500 [02:43<00:35,	2.63it/s]

Power Factorization: 82%	408/500 [02:43<00:35,	2.60it/s]
Power Factorization: 82%	409/500 [02:44<00:35,	2.57it/s]
Power Factorization: 82%	410/500 [02:44<00:37,	2.42it/s]
Power Factorization: 82%	411/500 [02:44<00:36,	2.45it/s]
Power Factorization: 82%	412/500 [02:45<00:34,	2.54it/s]
Power Factorization: 83%	413/500 [02:45<00:33,	2.62it/s]
Power Factorization: 83%	414/500 [02:46<00:32,	2.65it/s]
Power Factorization: 83%	415/500 [02:46<00:32,	2.65it/s]
Power Factorization: 83%	416/500 [02:46<00:31,	2.70it/s]
Power Factorization: 83%	417/500 [02:47<00:33,	2.47it/s]
Power Factorization: 84%	418/500 [02:47<00:33,	2.42it/s]
Power Factorization: 84%	419/500 [02:48<00:32,	2.46it/s]
Power Factorization: 84%	420/500 [02:48<00:34,	2.35it/s]
Power Factorization: 84%	421/500 [02:48<00:32,	2.42it/s]
Power Factorization: 84%	422/500 [02:49<00:31,	2.47it/s]
Power Factorization: 85%	423/500 [02:49<00:31,	2.45it/s]
Power Factorization: 85%	424/500 [02:50<00:33,	2.28it/s]
Power Factorization: 85%	425/500 [02:50<00:32,	2.31it/s]
Power Factorization: 85%	426/500 [02:51<00:30,	2.39it/s]
Power Factorization: 85%	427/500 [02:51<00:30,	2.42it/s]
Power Factorization: 86%	428/500 [02:51<00:29,	2.46it/s]
Power Factorization: 86%	429/500 [02:52<00:28,	2.51it/s]
Power Factorization: 86%	430/500 [02:52<00:27,	2.52it/s]
Power Factorization: 86%	431/500 [02:52<00:26,	2.59it/s]

Power Factorization: 86%	432/500 [02:53<00:26,	2.52it/s]
Power Factorization: 87%	433/500 [02:53<00:26,	2.56it/s]
Power Factorization: 87%	434/500 [02:54<00:25,	2.59it/s]
Power Factorization: 87%	435/500 [02:54<00:24,	2.62it/s]
Power Factorization: 87%	436/500 [02:54<00:24,	2.57it/s]
Power Factorization: 87%	437/500 [02:55<00:24,	2.59it/s]
Power Factorization: 88%	438/500 [02:55<00:23,	2.59it/s]
Power Factorization: 88%	439/500 [02:56<00:23,	2.63it/s]
Power Factorization: 88%	440/500 [02:56<00:23,	2.60it/s]
Power Factorization: 88%	441/500 [02:56<00:22,	2.62it/s]
Power Factorization: 88%	442/500 [02:57<00:22,	2.62it/s]
Power Factorization: 89%	443/500 [02:57<00:21,	2.63it/s]
Power Factorization: 89%	444/500 [02:57<00:21,	2.59it/s]
Power Factorization: 89%	445/500 [02:58<00:22,	2.46it/s]
Power Factorization: 89%	446/500 [02:58<00:21,	2.47it/s]
Power Factorization: 89%	447/500 [02:59<00:25,	2.10it/s]
Power Factorization: 90%	448/500 [02:59<00:23,	2.21it/s]
Power Factorization: 90%	449/500 [03:00<00:21,	2.34it/s]
Power Factorization: 90%	450/500 [03:00<00:21,	2.33it/s]
Power Factorization: 90%	451/500 [03:01<00:20,	2.36it/s]
Power Factorization: 90%	452/500 [03:01<00:19,	2.42it/s]
Power Factorization: 91%	453/500 [03:01<00:19,	2.45it/s]
Power Factorization: 91%	454/500 [03:02<00:19,	2.42it/s]
Power Factorization: 91%	455/500 [03:02<00:18,	2.40it/s]

Power Factorization: 91%	456/500 [03:03<00:18,	2.37it/s]
Power Factorization: 91%	457/500 [03:03<00:17,	2.43it/s]
Power Factorization: 92%	458/500 [03:03<00:16,	2.47it/s]
Power Factorization: 92%	459/500 [03:04<00:16,	2.47it/s]
Power Factorization: 92%	460/500 [03:04<00:15,	2.55it/s]
Power Factorization: 92%	461/500 [03:05<00:15,	2.56it/s]
Power Factorization: 92%	462/500 [03:05<00:14,	2.61it/s]
Power Factorization: 93%	463/500 [03:05<00:14,	2.61it/s]
Power Factorization: 93%	464/500 [03:06<00:13,	2.63it/s]
Power Factorization: 93%	465/500 [03:06<00:13,	2.60it/s]
Power Factorization: 93%	466/500 [03:06<00:12,	2.63it/s]
Power Factorization: 93%	467/500 [03:07<00:12,	2.63it/s]
Power Factorization: 94%	468/500 [03:07<00:12,	2.56it/s]
Power Factorization: 94%	469/500 [03:08<00:12,	2.56it/s]
Power Factorization: 94%	470/500 [03:08<00:11,	2.58it/s]
Power Factorization: 94%	471/500 [03:08<00:11,	2.61it/s]
Power Factorization: 94%	472/500 [03:09<00:10,	2.58it/s]
Power Factorization: 95%	473/500 [03:09<00:10,	2.54it/s]
Power Factorization: 95%	474/500 [03:10<00:10,	2.60it/s]
Power Factorization: 95%	475/500 [03:10<00:09,	2.55it/s]
Power Factorization: 95%	476/500 [03:10<00:09,	2.55it/s]
Power Factorization: 95%	477/500 [03:11<00:09,	2.51it/s]
Power Factorization: 96%	478/500 [03:11<00:08,	2.50it/s]
Power Factorization: 96%	479/500 [03:12<00:08,	2.55it/s]

Power Factorization: 96%	480/500 [03:12<00:07, 2.57it/s]
Power Factorization: 96%	481/500 [03:12<00:07, 2.60it/s]
Power Factorization: 96%	482/500 [03:13<00:07, 2.53it/s]
Power Factorization: 97%	483/500 [03:13<00:06, 2.54it/s]
Power Factorization: 97%	484/500 [03:14<00:06, 2.56it/s]
Power Factorization: 97%	485/500 [03:14<00:05, 2.50it/s]
Power Factorization: 97%	486/500 [03:14<00:05, 2.57it/s]
Power Factorization: 97%	487/500 [03:15<00:05, 2.52it/s]
Power Factorization: 98%	488/500 [03:15<00:04, 2.49it/s]
Power Factorization: 98%	489/500 [03:16<00:04, 2.55it/s]
Power Factorization: 98%	490/500 [03:16<00:03, 2.55it/s]
Power Factorization: 98%	491/500 [03:16<00:03, 2.60it/s]
Power Factorization: 98%	492/500 [03:17<00:03, 2.55it/s]
Power Factorization: 99%	493/500 [03:17<00:02, 2.53it/s]
Power Factorization: 99%	494/500 [03:17<00:02, 2.51it/s]
Power Factorization: 99%	495/500 [03:18<00:01, 2.53it/s]
Power Factorization: 99%	496/500 [03:18<00:01, 2.50it/s]
Power Factorization: 99%	497/500 [03:19<00:01, 2.52it/s]
Power Factorization: 100%	498/500 [03:19<00:00, 2.47it/s]
Power Factorization: 100%	499/500 [03:20<00:00, 2.42it/s]
Power Factorization: 100%	500/500 [03:20<00:00, 2.49it/s]
Cross Validation: 20%	1/5 [03:20<13:21, 200.49s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:34, 2.33it/s]

Power Factorization:	0%	2/500 [00:00<03:35, 2.31it/s]
Power Factorization:	1%	3/500 [00:01<03:28, 2.38it/s]
Power Factorization:	1%	4/500 [00:01<03:31, 2.35it/s]
Power Factorization:	1%	5/500 [00:02<03:33, 2.31it/s]
Power Factorization:	1%	6/500 [00:02<03:33, 2.32it/s]
Power Factorization:	1%	7/500 [00:03<03:34, 2.30it/s]
Power Factorization:	2%	8/500 [00:03<03:36, 2.28it/s]
Power Factorization:	2%	9/500 [00:04<05:07, 1.60it/s]
Power Factorization:	2%	10/500 [00:04<04:39, 1.76it/s]
Power Factorization:	2%	11/500 [00:05<04:14, 1.92it/s]
Power Factorization:	2%	12/500 [00:05<03:59, 2.04it/s]
Power Factorization:	3%	13/500 [00:06<03:50, 2.11it/s]
Power Factorization:	3%	14/500 [00:06<03:40, 2.20it/s]
Power Factorization:	3%	15/500 [00:07<03:36, 2.24it/s]
Power Factorization:	3%	16/500 [00:07<03:28, 2.33it/s]
Power Factorization:	3%	17/500 [00:07<03:30, 2.30it/s]
Power Factorization:	4%	18/500 [00:08<03:26, 2.33it/s]
Power Factorization:	4%	19/500 [00:08<03:33, 2.25it/s]
Power Factorization:	4%	20/500 [00:09<03:45, 2.13it/s]
Power Factorization:	4%	21/500 [00:09<03:36, 2.22it/s]
Power Factorization:	4%	22/500 [00:10<03:30, 2.27it/s]
Power Factorization:	5%	23/500 [00:10<03:23, 2.35it/s]
Power Factorization:	5%	24/500 [00:10<03:22, 2.35it/s]
Power Factorization:	5%	25/500 [00:11<03:25, 2.31it/s]

Power Factorization:	5%	26/500 [00:11<03:21, 2.35it/s]
Power Factorization:	5%	27/500 [00:12<03:19, 2.37it/s]
Power Factorization:	6%	28/500 [00:12<03:31, 2.24it/s]
Power Factorization:	6%	29/500 [00:13<03:29, 2.24it/s]
Power Factorization:	6%	30/500 [00:13<03:27, 2.26it/s]
Power Factorization:	6%	31/500 [00:14<03:22, 2.32it/s]
Power Factorization:	6%	32/500 [00:14<03:22, 2.32it/s]
Power Factorization:	7%	33/500 [00:14<03:21, 2.32it/s]
Power Factorization:	7%	34/500 [00:15<03:24, 2.28it/s]
Power Factorization:	7%	35/500 [00:15<03:25, 2.26it/s]
Power Factorization:	7%	36/500 [00:16<03:23, 2.28it/s]
Power Factorization:	7%	37/500 [00:16<03:19, 2.33it/s]
Power Factorization:	8%	38/500 [00:17<03:19, 2.31it/s]
Power Factorization:	8%	39/500 [00:17<03:19, 2.32it/s]
Power Factorization:	8%	40/500 [00:17<03:24, 2.25it/s]
Power Factorization:	8%	41/500 [00:18<03:25, 2.24it/s]
Power Factorization:	8%	42/500 [00:18<03:29, 2.19it/s]
Power Factorization:	9%	43/500 [00:19<03:27, 2.21it/s]
Power Factorization:	9%	44/500 [00:19<03:39, 2.08it/s]
Power Factorization:	9%	45/500 [00:20<03:34, 2.12it/s]
Power Factorization:	9%	46/500 [00:20<03:27, 2.19it/s]
Power Factorization:	9%	47/500 [00:21<03:19, 2.27it/s]
Power Factorization:	10%	48/500 [00:21<03:20, 2.25it/s]
Power Factorization:	10%	49/500 [00:22<03:20, 2.25it/s]

Power Factorization: 10%	50/500 [00:22<03:19, 2.25it/s]
Power Factorization: 10%	51/500 [00:22<03:15, 2.30it/s]
Power Factorization: 10%	52/500 [00:23<03:17, 2.27it/s]
Power Factorization: 11%	53/500 [00:23<03:15, 2.29it/s]
Power Factorization: 11%	54/500 [00:24<03:12, 2.32it/s]
Power Factorization: 11%	55/500 [00:24<03:10, 2.34it/s]
Power Factorization: 11%	56/500 [00:25<03:13, 2.30it/s]
Power Factorization: 11%	57/500 [00:25<03:12, 2.31it/s]
Power Factorization: 12%	58/500 [00:25<03:12, 2.30it/s]
Power Factorization: 12%	59/500 [00:26<03:10, 2.31it/s]
Power Factorization: 12%	60/500 [00:26<03:11, 2.30it/s]
Power Factorization: 12%	61/500 [00:27<03:11, 2.29it/s]
Power Factorization: 12%	62/500 [00:27<03:18, 2.21it/s]
Power Factorization: 13%	63/500 [00:28<03:25, 2.13it/s]
Power Factorization: 13%	64/500 [00:28<03:19, 2.18it/s]
Power Factorization: 13%	65/500 [00:29<03:15, 2.22it/s]
Power Factorization: 13%	66/500 [00:29<03:26, 2.10it/s]
Power Factorization: 13%	67/500 [00:30<03:27, 2.08it/s]
Power Factorization: 14%	68/500 [00:30<03:24, 2.12it/s]
Power Factorization: 14%	69/500 [00:31<03:28, 2.07it/s]
Power Factorization: 14%	70/500 [00:31<03:30, 2.05it/s]
Power Factorization: 14%	71/500 [00:32<03:33, 2.01it/s]
Power Factorization: 14%	72/500 [00:32<03:27, 2.06it/s]
Power Factorization: 15%	73/500 [00:33<03:33, 2.00it/s]

Power Factorization: 15%	74/500 [00:33<03:28,	2.04it/s]
Power Factorization: 15%	75/500 [00:34<03:26,	2.05it/s]
Power Factorization: 15%	76/500 [00:34<03:34,	1.97it/s]
Power Factorization: 15%	77/500 [00:35<03:33,	1.98it/s]
Power Factorization: 16%	78/500 [00:35<03:29,	2.01it/s]
Power Factorization: 16%	79/500 [00:36<03:33,	1.97it/s]
Power Factorization: 16%	80/500 [00:36<03:27,	2.02it/s]
Power Factorization: 16%	81/500 [00:37<03:32,	1.97it/s]
Power Factorization: 16%	82/500 [00:37<03:31,	1.98it/s]
Power Factorization: 17%	83/500 [00:38<03:27,	2.01it/s]
Power Factorization: 17%	84/500 [00:38<03:23,	2.04it/s]
Power Factorization: 17%	85/500 [00:39<03:18,	2.10it/s]
Power Factorization: 17%	86/500 [00:39<03:15,	2.12it/s]
Power Factorization: 17%	87/500 [00:39<03:11,	2.15it/s]
Power Factorization: 18%	88/500 [00:40<03:12,	2.14it/s]
Power Factorization: 18%	89/500 [00:40<03:14,	2.12it/s]
Power Factorization: 18%	90/500 [00:41<03:20,	2.05it/s]
Power Factorization: 18%	91/500 [00:42<04:02,	1.69it/s]
Power Factorization: 18%	92/500 [00:45<08:52,	1.31s/it]
Power Factorization: 19%	93/500 [00:45<07:25,	1.09s/it]
Power Factorization: 19%	94/500 [00:46<06:29,	1.04it/s]
Power Factorization: 19%	95/500 [00:46<05:32,	1.22it/s]
Power Factorization: 19%	96/500 [00:47<05:17,	1.27it/s]
Power Factorization: 19%	97/500 [00:48<04:47,	1.40it/s]

Power Factorization: 20%	98/500 [00:48<04:28, 1.50it/s]
Power Factorization: 20%	99/500 [00:49<04:22, 1.53it/s]
Power Factorization: 20%	100/500 [00:50<04:18, 1.55it/s]
Power Factorization: 20%	101/500 [00:50<04:07, 1.61it/s]
Power Factorization: 20%	102/500 [00:51<03:55, 1.69it/s]
Power Factorization: 21%	103/500 [00:51<03:54, 1.70it/s]
Power Factorization: 21%	104/500 [00:52<03:49, 1.73it/s]
Power Factorization: 21%	105/500 [00:52<03:48, 1.73it/s]
Power Factorization: 21%	106/500 [00:53<03:40, 1.78it/s]
Power Factorization: 21%	107/500 [00:53<03:39, 1.79it/s]
Power Factorization: 22%	108/500 [00:54<03:40, 1.78it/s]
Power Factorization: 22%	109/500 [00:55<03:37, 1.79it/s]
Power Factorization: 22%	110/500 [00:55<03:35, 1.81it/s]
Power Factorization: 22%	111/500 [00:56<03:33, 1.82it/s]
Power Factorization: 22%	112/500 [00:57<04:26, 1.46it/s]
Power Factorization: 23%	113/500 [00:57<04:14, 1.52it/s]
Power Factorization: 23%	114/500 [00:58<03:58, 1.62it/s]
Power Factorization: 23%	115/500 [00:58<03:51, 1.67it/s]
Power Factorization: 23%	116/500 [00:59<03:42, 1.73it/s]
Power Factorization: 23%	117/500 [00:59<03:42, 1.72it/s]
Power Factorization: 24%	118/500 [01:00<03:37, 1.76it/s]
Power Factorization: 24%	119/500 [01:01<04:33, 1.39it/s]
Power Factorization: 24%	120/500 [01:02<04:41, 1.35it/s]
Power Factorization: 24%	121/500 [01:02<04:21, 1.45it/s]

Power Factorization: 24%	122/500 [01:03<04:06, 1.53it/s]
Power Factorization: 25%	123/500 [01:04<04:03, 1.55it/s]
Power Factorization: 25%	124/500 [01:04<04:17, 1.46it/s]
Power Factorization: 25%	125/500 [01:05<04:46, 1.31it/s]
Power Factorization: 25%	126/500 [01:06<05:11, 1.20it/s]
Power Factorization: 25%	127/500 [01:07<04:32, 1.37it/s]
Power Factorization: 26%	128/500 [01:07<04:05, 1.52it/s]
Power Factorization: 26%	129/500 [01:08<03:41, 1.68it/s]
Power Factorization: 26%	130/500 [01:08<03:28, 1.77it/s]
Power Factorization: 26%	131/500 [01:09<03:26, 1.79it/s]
Power Factorization: 26%	132/500 [01:09<03:13, 1.90it/s]
Power Factorization: 27%	133/500 [01:10<03:04, 1.99it/s]
Power Factorization: 27%	134/500 [01:10<02:55, 2.09it/s]
Power Factorization: 27%	135/500 [01:11<02:54, 2.09it/s]
Power Factorization: 27%	136/500 [01:11<02:48, 2.17it/s]
Power Factorization: 27%	137/500 [01:11<02:52, 2.11it/s]
Power Factorization: 28%	138/500 [01:12<03:00, 2.01it/s]
Power Factorization: 28%	139/500 [01:13<03:03, 1.97it/s]
Power Factorization: 28%	140/500 [01:13<03:05, 1.94it/s]
Power Factorization: 28%	141/500 [01:14<03:05, 1.94it/s]
Power Factorization: 28%	142/500 [01:14<03:08, 1.90it/s]
Power Factorization: 29%	143/500 [01:15<03:11, 1.87it/s]
Power Factorization: 29%	144/500 [01:15<03:07, 1.90it/s]
Power Factorization: 29%	145/500 [01:16<03:03, 1.94it/s]

Power Factorization: 29%	146/500 [01:16<02:56, 2.01it/s]
Power Factorization: 29%	147/500 [01:17<02:57, 1.99it/s]
Power Factorization: 30%	148/500 [01:17<02:50, 2.06it/s]
Power Factorization: 30%	149/500 [01:18<02:51, 2.05it/s]
Power Factorization: 30%	150/500 [01:18<02:49, 2.06it/s]
Power Factorization: 30%	151/500 [01:19<02:43, 2.14it/s]
Power Factorization: 30%	152/500 [01:19<02:37, 2.21it/s]
Power Factorization: 31%	153/500 [01:19<02:42, 2.13it/s]
Power Factorization: 31%	154/500 [01:20<02:46, 2.07it/s]
Power Factorization: 31%	155/500 [01:20<02:46, 2.07it/s]
Power Factorization: 31%	156/500 [01:21<02:46, 2.06it/s]
Power Factorization: 31%	157/500 [01:21<02:47, 2.05it/s]
Power Factorization: 32%	158/500 [01:22<02:41, 2.11it/s]
Power Factorization: 32%	159/500 [01:22<02:40, 2.12it/s]
Power Factorization: 32%	160/500 [01:23<02:35, 2.18it/s]
Power Factorization: 32%	161/500 [01:23<02:34, 2.19it/s]
Power Factorization: 32%	162/500 [01:24<02:42, 2.07it/s]
Power Factorization: 33%	163/500 [01:24<02:40, 2.10it/s]
Power Factorization: 33%	164/500 [01:25<02:37, 2.14it/s]
Power Factorization: 33%	165/500 [01:25<02:33, 2.18it/s]
Power Factorization: 33%	166/500 [01:26<02:34, 2.17it/s]
Power Factorization: 33%	167/500 [01:26<02:35, 2.14it/s]
Power Factorization: 34%	168/500 [01:27<02:31, 2.19it/s]
Power Factorization: 34%	169/500 [01:27<02:31, 2.19it/s]

Power Factorization: 34%	170/500 [01:27<02:28, 2.22it/s]
Power Factorization: 34%	171/500 [01:28<02:26, 2.25it/s]
Power Factorization: 34%	172/500 [01:28<02:26, 2.24it/s]
Power Factorization: 35%	173/500 [01:29<02:28, 2.20it/s]
Power Factorization: 35%	174/500 [01:29<02:32, 2.14it/s]
Power Factorization: 35%	175/500 [01:30<02:29, 2.17it/s]
Power Factorization: 35%	176/500 [01:30<02:26, 2.22it/s]
Power Factorization: 35%	177/500 [01:31<02:25, 2.21it/s]
Power Factorization: 36%	178/500 [01:31<02:23, 2.24it/s]
Power Factorization: 36%	179/500 [01:31<02:23, 2.24it/s]
Power Factorization: 36%	180/500 [01:32<02:24, 2.22it/s]
Power Factorization: 36%	181/500 [01:32<02:21, 2.26it/s]
Power Factorization: 36%	182/500 [01:33<02:22, 2.23it/s]
Power Factorization: 37%	183/500 [01:33<02:22, 2.22it/s]
Power Factorization: 37%	184/500 [01:34<02:20, 2.24it/s]
Power Factorization: 37%	185/500 [01:34<02:16, 2.31it/s]
Power Factorization: 37%	186/500 [01:35<02:16, 2.31it/s]
Power Factorization: 37%	187/500 [01:35<02:15, 2.31it/s]
Power Factorization: 38%	188/500 [01:35<02:15, 2.31it/s]
Power Factorization: 38%	189/500 [01:36<02:15, 2.30it/s]
Power Factorization: 38%	190/500 [01:36<02:19, 2.23it/s]
Power Factorization: 38%	191/500 [01:37<02:19, 2.21it/s]
Power Factorization: 38%	192/500 [01:37<02:23, 2.15it/s]
Power Factorization: 39%	193/500 [01:38<02:23, 2.14it/s]

Power Factorization: 39%	194/500 [01:38<02:25, 2.10it/s]
Power Factorization: 39%	195/500 [01:39<02:21, 2.15it/s]
Power Factorization: 39%	196/500 [01:39<02:24, 2.11it/s]
Power Factorization: 39%	197/500 [01:40<02:19, 2.17it/s]
Power Factorization: 40%	198/500 [01:40<02:17, 2.20it/s]
Power Factorization: 40%	199/500 [01:40<02:16, 2.20it/s]
Power Factorization: 40%	200/500 [01:41<02:15, 2.22it/s]
Power Factorization: 40%	201/500 [01:41<02:15, 2.21it/s]
Power Factorization: 40%	202/500 [01:42<02:18, 2.15it/s]
Power Factorization: 41%	203/500 [01:42<02:15, 2.19it/s]
Power Factorization: 41%	204/500 [01:43<02:15, 2.19it/s]
Power Factorization: 41%	205/500 [01:43<02:12, 2.22it/s]
Power Factorization: 41%	206/500 [01:44<02:10, 2.25it/s]
Power Factorization: 41%	207/500 [01:44<02:08, 2.28it/s]
Power Factorization: 42%	208/500 [01:45<02:10, 2.25it/s]
Power Factorization: 42%	209/500 [01:45<02:12, 2.19it/s]
Power Factorization: 42%	210/500 [01:45<02:12, 2.19it/s]
Power Factorization: 42%	211/500 [01:46<02:11, 2.19it/s]
Power Factorization: 42%	212/500 [01:46<02:10, 2.21it/s]
Power Factorization: 43%	213/500 [01:47<02:09, 2.21it/s]
Power Factorization: 43%	214/500 [01:47<02:13, 2.15it/s]
Power Factorization: 43%	215/500 [01:48<02:13, 2.13it/s]
Power Factorization: 43%	216/500 [01:48<02:13, 2.13it/s]
Power Factorization: 43%	217/500 [01:49<02:15, 2.09it/s]

Power Factorization: 44%	218/500 [01:49<02:15, 2.08it/s]
Power Factorization: 44%	219/500 [01:50<02:14, 2.09it/s]
Power Factorization: 44%	220/500 [01:50<02:14, 2.08it/s]
Power Factorization: 44%	221/500 [01:51<02:18, 2.02it/s]
Power Factorization: 44%	222/500 [01:51<02:15, 2.05it/s]
Power Factorization: 45%	223/500 [01:52<02:14, 2.06it/s]
Power Factorization: 45%	224/500 [01:52<02:14, 2.06it/s]
Power Factorization: 45%	225/500 [01:53<02:10, 2.10it/s]
Power Factorization: 45%	226/500 [01:53<02:05, 2.18it/s]
Power Factorization: 45%	227/500 [01:54<02:05, 2.18it/s]
Power Factorization: 46%	228/500 [01:54<02:02, 2.23it/s]
Power Factorization: 46%	229/500 [01:54<02:01, 2.22it/s]
Power Factorization: 46%	230/500 [01:55<02:04, 2.18it/s]
Power Factorization: 46%	231/500 [01:55<02:00, 2.23it/s]
Power Factorization: 46%	232/500 [01:56<01:58, 2.27it/s]
Power Factorization: 47%	233/500 [01:56<01:59, 2.23it/s]
Power Factorization: 47%	234/500 [01:57<02:05, 2.12it/s]
Power Factorization: 47%	235/500 [01:57<02:01, 2.17it/s]
Power Factorization: 47%	236/500 [01:58<01:59, 2.20it/s]
Power Factorization: 47%	237/500 [01:58<01:58, 2.21it/s]
Power Factorization: 48%	238/500 [01:58<01:57, 2.23it/s]
Power Factorization: 48%	239/500 [01:59<01:58, 2.20it/s]
Power Factorization: 48%	240/500 [01:59<01:55, 2.24it/s]
Power Factorization: 48%	241/500 [02:00<01:53, 2.27it/s]

Power Factorization: 48%	242/500 [02:00<01:51, 2.31it/s]
Power Factorization: 49%	243/500 [02:01<01:51, 2.31it/s]
Power Factorization: 49%	244/500 [02:01<01:50, 2.31it/s]
Power Factorization: 49%	245/500 [02:02<01:57, 2.17it/s]
Power Factorization: 49%	246/500 [02:02<02:03, 2.05it/s]
Power Factorization: 49%	247/500 [02:03<02:02, 2.06it/s]
Power Factorization: 50%	248/500 [02:03<02:07, 1.97it/s]
Power Factorization: 50%	249/500 [02:04<02:07, 1.97it/s]
Power Factorization: 50%	250/500 [02:04<02:12, 1.88it/s]
Power Factorization: 50%	251/500 [02:05<02:12, 1.88it/s]
Power Factorization: 50%	252/500 [02:05<02:06, 1.96it/s]
Power Factorization: 51%	253/500 [02:06<01:58, 2.08it/s]
Power Factorization: 51%	254/500 [02:06<01:52, 2.18it/s]
Power Factorization: 51%	255/500 [02:07<01:51, 2.21it/s]
Power Factorization: 51%	256/500 [02:07<01:49, 2.24it/s]
Power Factorization: 51%	257/500 [02:07<01:50, 2.20it/s]
Power Factorization: 52%	258/500 [02:08<01:48, 2.22it/s]
Power Factorization: 52%	259/500 [02:08<01:45, 2.29it/s]
Power Factorization: 52%	260/500 [02:09<01:46, 2.25it/s]
Power Factorization: 52%	261/500 [02:09<01:46, 2.25it/s]
Power Factorization: 52%	262/500 [02:10<01:44, 2.29it/s]
Power Factorization: 53%	263/500 [02:10<01:42, 2.30it/s]
Power Factorization: 53%	264/500 [02:10<01:41, 2.32it/s]
Power Factorization: 53%	265/500 [02:11<01:42, 2.30it/s]

Power Factorization: 53%	266/500 [02:11<01:42, 2.29it/s]
Power Factorization: 53%	267/500 [02:12<01:40, 2.33it/s]
Power Factorization: 54%	268/500 [02:12<01:42, 2.27it/s]
Power Factorization: 54%	269/500 [02:13<01:44, 2.22it/s]
Power Factorization: 54%	270/500 [02:13<01:42, 2.24it/s]
Power Factorization: 54%	271/500 [02:14<01:41, 2.25it/s]
Power Factorization: 54%	272/500 [02:14<01:39, 2.30it/s]
Power Factorization: 55%	273/500 [02:14<01:37, 2.34it/s]
Power Factorization: 55%	274/500 [02:15<01:37, 2.32it/s]
Power Factorization: 55%	275/500 [02:15<01:37, 2.32it/s]
Power Factorization: 55%	276/500 [02:16<01:37, 2.30it/s]
Power Factorization: 55%	277/500 [02:16<01:36, 2.31it/s]
Power Factorization: 56%	278/500 [02:17<01:37, 2.28it/s]
Power Factorization: 56%	279/500 [02:17<01:35, 2.31it/s]
Power Factorization: 56%	280/500 [02:17<01:35, 2.30it/s]
Power Factorization: 56%	281/500 [02:18<01:33, 2.33it/s]
Power Factorization: 56%	282/500 [02:18<01:34, 2.32it/s]
Power Factorization: 57%	283/500 [02:19<01:34, 2.29it/s]
Power Factorization: 57%	284/500 [02:19<01:34, 2.30it/s]
Power Factorization: 57%	285/500 [02:20<01:33, 2.29it/s]
Power Factorization: 57%	286/500 [02:20<01:30, 2.35it/s]
Power Factorization: 57%	287/500 [02:20<01:32, 2.31it/s]
Power Factorization: 58%	288/500 [02:21<01:31, 2.32it/s]
Power Factorization: 58%	289/500 [02:21<01:28, 2.38it/s]

Power Factorization: 58%	290/500 [02:22<01:32, 2.27it/s]
Power Factorization: 58%	291/500 [02:22<01:32, 2.26it/s]
Power Factorization: 58%	292/500 [02:23<01:30, 2.29it/s]
Power Factorization: 59%	293/500 [02:23<01:33, 2.22it/s]
Power Factorization: 59%	294/500 [02:24<01:32, 2.22it/s]
Power Factorization: 59%	295/500 [02:24<01:30, 2.27it/s]
Power Factorization: 59%	296/500 [02:24<01:28, 2.30it/s]
Power Factorization: 59%	297/500 [02:25<01:27, 2.31it/s]
Power Factorization: 60%	298/500 [02:25<01:26, 2.34it/s]
Power Factorization: 60%	299/500 [02:26<01:25, 2.35it/s]
Power Factorization: 60%	300/500 [02:26<01:24, 2.37it/s]
Power Factorization: 60%	301/500 [02:27<01:24, 2.37it/s]
Power Factorization: 60%	302/500 [02:27<01:22, 2.41it/s]
Power Factorization: 61%	303/500 [02:27<01:21, 2.41it/s]
Power Factorization: 61%	304/500 [02:28<01:20, 2.44it/s]
Power Factorization: 61%	305/500 [02:28<01:21, 2.39it/s]
Power Factorization: 61%	306/500 [02:29<01:20, 2.40it/s]
Power Factorization: 61%	307/500 [02:29<01:23, 2.30it/s]
Power Factorization: 62%	308/500 [02:29<01:22, 2.33it/s]
Power Factorization: 62%	309/500 [02:30<01:23, 2.29it/s]
Power Factorization: 62%	310/500 [02:30<01:22, 2.30it/s]
Power Factorization: 62%	311/500 [02:31<01:21, 2.32it/s]
Power Factorization: 62%	312/500 [02:31<01:19, 2.36it/s]
Power Factorization: 63%	313/500 [02:32<01:19, 2.34it/s]

Power Factorization: 63%	314/500 [02:32<01:26, 2.16it/s]
Power Factorization: 63%	315/500 [02:33<01:23, 2.20it/s]
Power Factorization: 63%	316/500 [02:33<01:22, 2.23it/s]
Power Factorization: 63%	317/500 [02:33<01:19, 2.30it/s]
Power Factorization: 64%	318/500 [02:34<01:18, 2.32it/s]
Power Factorization: 64%	319/500 [02:34<01:16, 2.36it/s]
Power Factorization: 64%	320/500 [02:35<01:15, 2.39it/s]
Power Factorization: 64%	321/500 [02:35<01:14, 2.42it/s]
Power Factorization: 64%	322/500 [02:35<01:14, 2.40it/s]
Power Factorization: 65%	323/500 [02:36<01:14, 2.39it/s]
Power Factorization: 65%	324/500 [02:36<01:14, 2.37it/s]
Power Factorization: 65%	325/500 [02:37<01:13, 2.37it/s]
Power Factorization: 65%	326/500 [02:37<01:13, 2.37it/s]
Power Factorization: 65%	327/500 [02:38<01:14, 2.33it/s]
Power Factorization: 66%	328/500 [02:38<01:12, 2.37it/s]
Power Factorization: 66%	329/500 [02:38<01:11, 2.39it/s]
Power Factorization: 66%	330/500 [02:39<01:10, 2.40it/s]
Power Factorization: 66%	331/500 [02:39<01:10, 2.41it/s]
Power Factorization: 66%	332/500 [02:40<01:10, 2.37it/s]
Power Factorization: 67%	333/500 [02:40<01:08, 2.43it/s]
Power Factorization: 67%	334/500 [02:41<01:08, 2.43it/s]
Power Factorization: 67%	335/500 [02:41<01:07, 2.46it/s]
Power Factorization: 67%	336/500 [02:41<01:06, 2.46it/s]
Power Factorization: 67%	337/500 [02:42<01:06, 2.45it/s]

Power Factorization: 68%	338/500 [02:42<01:05, 2.48it/s]
Power Factorization: 68%	339/500 [02:43<01:07, 2.37it/s]
Power Factorization: 68%	340/500 [02:43<01:07, 2.36it/s]
Power Factorization: 68%	341/500 [02:43<01:07, 2.36it/s]
Power Factorization: 68%	342/500 [02:44<01:05, 2.42it/s]
Power Factorization: 69%	343/500 [02:44<01:05, 2.40it/s]
Power Factorization: 69%	344/500 [02:45<01:04, 2.43it/s]
Power Factorization: 69%	345/500 [02:45<01:04, 2.41it/s]
Power Factorization: 69%	346/500 [02:45<01:04, 2.40it/s]
Power Factorization: 69%	347/500 [02:46<01:04, 2.39it/s]
Power Factorization: 70%	348/500 [02:46<01:03, 2.38it/s]
Power Factorization: 70%	349/500 [02:47<01:02, 2.42it/s]
Power Factorization: 70%	350/500 [02:47<01:02, 2.38it/s]
Power Factorization: 70%	351/500 [02:48<01:00, 2.46it/s]
Power Factorization: 70%	352/500 [02:48<00:59, 2.49it/s]
Power Factorization: 71%	353/500 [02:48<01:00, 2.42it/s]
Power Factorization: 71%	354/500 [02:49<00:58, 2.48it/s]
Power Factorization: 71%	355/500 [02:49<00:58, 2.46it/s]
Power Factorization: 71%	356/500 [02:50<00:59, 2.41it/s]
Power Factorization: 71%	357/500 [02:50<00:59, 2.39it/s]
Power Factorization: 72%	358/500 [02:50<00:59, 2.40it/s]
Power Factorization: 72%	359/500 [02:51<01:00, 2.34it/s]
Power Factorization: 72%	360/500 [02:51<00:58, 2.39it/s]
Power Factorization: 72%	361/500 [02:52<00:59, 2.35it/s]

Power Factorization: 72%	362/500 [02:52<00:57, 2.40it/s]
Power Factorization: 73%	363/500 [02:53<00:57, 2.39it/s]
Power Factorization: 73%	364/500 [02:53<00:58, 2.34it/s]
Power Factorization: 73%	365/500 [02:53<00:56, 2.38it/s]
Power Factorization: 73%	366/500 [02:54<00:56, 2.39it/s]
Power Factorization: 73%	367/500 [02:54<00:54, 2.44it/s]
Power Factorization: 74%	368/500 [02:55<00:54, 2.40it/s]
Power Factorization: 74%	369/500 [02:55<00:54, 2.42it/s]
Power Factorization: 74%	370/500 [02:55<00:54, 2.39it/s]
Power Factorization: 74%	371/500 [02:56<00:54, 2.36it/s]
Power Factorization: 74%	372/500 [02:56<00:53, 2.38it/s]
Power Factorization: 75%	373/500 [02:57<00:53, 2.38it/s]
Power Factorization: 75%	374/500 [02:57<00:55, 2.27it/s]
Power Factorization: 75%	375/500 [02:58<00:53, 2.34it/s]
Power Factorization: 75%	376/500 [02:58<00:51, 2.41it/s]
Power Factorization: 75%	377/500 [02:58<00:50, 2.44it/s]
Power Factorization: 76%	378/500 [02:59<00:50, 2.43it/s]
Power Factorization: 76%	379/500 [02:59<00:50, 2.38it/s]
Power Factorization: 76%	380/500 [03:00<00:50, 2.38it/s]
Power Factorization: 76%	381/500 [03:00<00:48, 2.44it/s]
Power Factorization: 76%	382/500 [03:00<00:48, 2.44it/s]
Power Factorization: 77%	383/500 [03:01<00:47, 2.44it/s]
Power Factorization: 77%	384/500 [03:01<00:47, 2.47it/s]
Power Factorization: 77%	385/500 [03:02<00:46, 2.49it/s]

Power Factorization: 77%	386/500 [03:02<00:46, 2.46it/s]
Power Factorization: 77%	387/500 [03:03<00:46, 2.44it/s]
Power Factorization: 78%	388/500 [03:03<00:46, 2.43it/s]
Power Factorization: 78%	389/500 [03:03<00:45, 2.46it/s]
Power Factorization: 78%	390/500 [03:04<00:45, 2.44it/s]
Power Factorization: 78%	391/500 [03:04<00:45, 2.39it/s]
Power Factorization: 78%	392/500 [03:05<00:44, 2.44it/s]
Power Factorization: 79%	393/500 [03:05<00:45, 2.37it/s]
Power Factorization: 79%	394/500 [03:05<00:43, 2.44it/s]
Power Factorization: 79%	395/500 [03:06<00:43, 2.43it/s]
Power Factorization: 79%	396/500 [03:06<00:43, 2.42it/s]
Power Factorization: 79%	397/500 [03:07<00:42, 2.43it/s]
Power Factorization: 80%	398/500 [03:07<00:40, 2.49it/s]
Power Factorization: 80%	399/500 [03:07<00:39, 2.55it/s]
Power Factorization: 80%	400/500 [03:08<00:39, 2.54it/s]
Power Factorization: 80%	401/500 [03:08<00:38, 2.56it/s]
Power Factorization: 80%	402/500 [03:09<00:39, 2.50it/s]
Power Factorization: 81%	403/500 [03:09<00:39, 2.46it/s]
Power Factorization: 81%	404/500 [03:09<00:39, 2.45it/s]
Power Factorization: 81%	405/500 [03:10<00:40, 2.32it/s]
Power Factorization: 81%	406/500 [03:10<00:39, 2.39it/s]
Power Factorization: 81%	407/500 [03:11<00:38, 2.43it/s]
Power Factorization: 82%	408/500 [03:11<00:37, 2.44it/s]
Power Factorization: 82%	409/500 [03:12<00:38, 2.38it/s]

Power Factorization: 82%	410/500 [03:12<00:37,	2.42it/s]
Power Factorization: 82%	411/500 [03:12<00:36,	2.43it/s]
Power Factorization: 82%	412/500 [03:13<00:36,	2.40it/s]
Power Factorization: 83%	413/500 [03:13<00:36,	2.40it/s]
Power Factorization: 83%	414/500 [03:14<00:35,	2.43it/s]
Power Factorization: 83%	415/500 [03:14<00:35,	2.37it/s]
Power Factorization: 83%	416/500 [03:14<00:35,	2.39it/s]
Power Factorization: 83%	417/500 [03:15<00:34,	2.40it/s]
Power Factorization: 84%	418/500 [03:15<00:34,	2.35it/s]
Power Factorization: 84%	419/500 [03:16<00:34,	2.32it/s]
Power Factorization: 84%	420/500 [03:16<00:34,	2.33it/s]
Power Factorization: 84%	421/500 [03:17<00:34,	2.29it/s]
Power Factorization: 84%	422/500 [03:17<00:33,	2.33it/s]
Power Factorization: 85%	423/500 [03:17<00:32,	2.35it/s]
Power Factorization: 85%	424/500 [03:18<00:31,	2.42it/s]
Power Factorization: 85%	425/500 [03:18<00:30,	2.42it/s]
Power Factorization: 85%	426/500 [03:19<00:30,	2.43it/s]
Power Factorization: 85%	427/500 [03:19<00:30,	2.42it/s]
Power Factorization: 86%	428/500 [03:19<00:29,	2.47it/s]
Power Factorization: 86%	429/500 [03:20<00:28,	2.52it/s]
Power Factorization: 86%	430/500 [03:20<00:28,	2.50it/s]
Power Factorization: 86%	431/500 [03:21<00:27,	2.49it/s]
Power Factorization: 86%	432/500 [03:21<00:28,	2.38it/s]
Power Factorization: 87%	433/500 [03:22<00:28,	2.35it/s]

Power Factorization: 87%	434/500 [03:22<00:27,	2.43it/s]
Power Factorization: 87%	435/500 [03:22<00:26,	2.46it/s]
Power Factorization: 87%	436/500 [03:23<00:25,	2.53it/s]
Power Factorization: 87%	437/500 [03:23<00:24,	2.53it/s]
Power Factorization: 88%	438/500 [03:23<00:24,	2.56it/s]
Power Factorization: 88%	439/500 [03:24<00:24,	2.52it/s]
Power Factorization: 88%	440/500 [03:24<00:23,	2.51it/s]
Power Factorization: 88%	441/500 [03:25<00:23,	2.54it/s]
Power Factorization: 88%	442/500 [03:25<00:22,	2.55it/s]
Power Factorization: 89%	443/500 [03:25<00:22,	2.57it/s]
Power Factorization: 89%	444/500 [03:26<00:22,	2.54it/s]
Power Factorization: 89%	445/500 [03:26<00:21,	2.55it/s]
Power Factorization: 89%	446/500 [03:27<00:21,	2.51it/s]
Power Factorization: 89%	447/500 [03:27<00:20,	2.52it/s]
Power Factorization: 90%	448/500 [03:27<00:20,	2.52it/s]
Power Factorization: 90%	449/500 [03:28<00:20,	2.54it/s]
Power Factorization: 90%	450/500 [03:28<00:19,	2.50it/s]
Power Factorization: 90%	451/500 [03:29<00:19,	2.52it/s]
Power Factorization: 90%	452/500 [03:29<00:19,	2.51it/s]
Power Factorization: 91%	453/500 [03:29<00:18,	2.51it/s]
Power Factorization: 91%	454/500 [03:30<00:18,	2.51it/s]
Power Factorization: 91%	455/500 [03:30<00:17,	2.52it/s]
Power Factorization: 91%	456/500 [03:31<00:17,	2.50it/s]
Power Factorization: 91%	457/500 [03:31<00:17,	2.44it/s]

Power Factorization: 92%	458/500 [03:31<00:17, 2.45it/s]
Power Factorization: 92%	459/500 [03:32<00:16, 2.49it/s]
Power Factorization: 92%	460/500 [03:32<00:16, 2.49it/s]
Power Factorization: 92%	461/500 [03:33<00:15, 2.45it/s]
Power Factorization: 92%	462/500 [03:33<00:15, 2.50it/s]
Power Factorization: 93%	463/500 [03:33<00:14, 2.51it/s]
Power Factorization: 93%	464/500 [03:34<00:14, 2.52it/s]
Power Factorization: 93%	465/500 [03:34<00:13, 2.56it/s]
Power Factorization: 93%	466/500 [03:35<00:13, 2.57it/s]
Power Factorization: 93%	467/500 [03:35<00:12, 2.54it/s]
Power Factorization: 94%	468/500 [03:35<00:12, 2.55it/s]
Power Factorization: 94%	469/500 [03:36<00:12, 2.50it/s]
Power Factorization: 94%	470/500 [03:36<00:11, 2.50it/s]
Power Factorization: 94%	471/500 [03:37<00:11, 2.47it/s]
Power Factorization: 94%	472/500 [03:37<00:11, 2.40it/s]
Power Factorization: 95%	473/500 [03:37<00:10, 2.46it/s]
Power Factorization: 95%	474/500 [03:38<00:10, 2.49it/s]
Power Factorization: 95%	475/500 [03:38<00:10, 2.47it/s]
Power Factorization: 95%	476/500 [03:39<00:09, 2.44it/s]
Power Factorization: 95%	477/500 [03:39<00:09, 2.32it/s]
Power Factorization: 96%	478/500 [03:40<00:09, 2.28it/s]
Power Factorization: 96%	479/500 [03:40<00:09, 2.30it/s]
Power Factorization: 96%	480/500 [03:40<00:08, 2.38it/s]
Power Factorization: 96%	481/500 [03:43<00:20, 1.07s/it]

Power Factorization: 96%	482/500 [03:44<00:16, 1.09it/s]
Power Factorization: 97%	483/500 [03:44<00:13, 1.27it/s]
Power Factorization: 97%	484/500 [03:45<00:10, 1.46it/s]
Power Factorization: 97%	485/500 [03:45<00:09, 1.56it/s]
Power Factorization: 97%	486/500 [03:45<00:07, 1.76it/s]
Power Factorization: 97%	487/500 [03:46<00:06, 1.95it/s]
Power Factorization: 98%	488/500 [03:46<00:05, 2.05it/s]
Power Factorization: 98%	489/500 [03:47<00:05, 2.19it/s]
Power Factorization: 98%	490/500 [03:47<00:04, 2.30it/s]
Power Factorization: 98%	491/500 [03:47<00:03, 2.35it/s]
Power Factorization: 98%	492/500 [03:48<00:03, 2.40it/s]
Power Factorization: 99%	493/500 [03:48<00:02, 2.46it/s]
Power Factorization: 99%	494/500 [03:49<00:02, 2.50it/s]
Power Factorization: 99%	495/500 [03:49<00:02, 2.48it/s]
Power Factorization: 99%	496/500 [03:49<00:01, 2.46it/s]
Power Factorization: 99%	497/500 [03:50<00:01, 2.37it/s]
Power Factorization: 100%	498/500 [03:50<00:00, 2.33it/s]
Power Factorization: 100%	499/500 [03:51<00:00, 2.37it/s]
Power Factorization: 100%	500/500 [03:51<00:00, 2.16it/s]
Cross Validation: 40%	2/5 [07:12<10:56, 218.87s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:24, 2.44it/s]
Power Factorization: 0%	2/500 [00:00<03:25, 2.42it/s]
Power Factorization: 1%	3/500 [00:01<03:24, 2.43it/s]

Power Factorization:	1%	4/500 [00:01<03:26, 2.40it/s]
Power Factorization:	1%	5/500 [00:02<03:21, 2.46it/s]
Power Factorization:	1%	6/500 [00:02<03:22, 2.44it/s]
Power Factorization:	1%	7/500 [00:02<03:21, 2.45it/s]
Power Factorization:	2%	8/500 [00:03<03:26, 2.39it/s]
Power Factorization:	2%	9/500 [00:03<03:26, 2.37it/s]
Power Factorization:	2%	10/500 [00:04<03:23, 2.40it/s]
Power Factorization:	2%	11/500 [00:04<03:26, 2.37it/s]
Power Factorization:	2%	12/500 [00:05<03:25, 2.37it/s]
Power Factorization:	3%	13/500 [00:05<03:22, 2.40it/s]
Power Factorization:	3%	14/500 [00:05<03:23, 2.38it/s]
Power Factorization:	3%	15/500 [00:06<03:21, 2.41it/s]
Power Factorization:	3%	16/500 [00:06<03:18, 2.44it/s]
Power Factorization:	3%	17/500 [00:07<03:15, 2.47it/s]
Power Factorization:	4%	18/500 [00:07<03:19, 2.42it/s]
Power Factorization:	4%	19/500 [00:07<03:21, 2.39it/s]
Power Factorization:	4%	20/500 [00:08<03:20, 2.40it/s]
Power Factorization:	4%	21/500 [00:08<03:21, 2.38it/s]
Power Factorization:	4%	22/500 [00:09<03:23, 2.35it/s]
Power Factorization:	5%	23/500 [00:09<03:23, 2.34it/s]
Power Factorization:	5%	24/500 [00:10<03:20, 2.38it/s]
Power Factorization:	5%	25/500 [00:10<03:22, 2.35it/s]
Power Factorization:	5%	26/500 [00:10<03:19, 2.37it/s]
Power Factorization:	5%	27/500 [00:11<03:20, 2.35it/s]

Power Factorization:	6%	28/500	[00:11<03:19,	2.37it/s]
Power Factorization:	6%	29/500	[00:12<03:15,	2.41it/s]
Power Factorization:	6%	30/500	[00:12<03:13,	2.42it/s]
Power Factorization:	6%	31/500	[00:12<03:14,	2.41it/s]
Power Factorization:	6%	32/500	[00:13<03:15,	2.39it/s]
Power Factorization:	7%	33/500	[00:13<03:14,	2.40it/s]
Power Factorization:	7%	34/500	[00:14<03:14,	2.40it/s]
Power Factorization:	7%	35/500	[00:14<03:12,	2.42it/s]
Power Factorization:	7%	36/500	[00:15<03:13,	2.40it/s]
Power Factorization:	7%	37/500	[00:15<03:10,	2.44it/s]
Power Factorization:	8%	38/500	[00:15<03:13,	2.39it/s]
Power Factorization:	8%	39/500	[00:16<03:11,	2.41it/s]
Power Factorization:	8%	40/500	[00:16<03:10,	2.41it/s]
Power Factorization:	8%	41/500	[00:17<03:12,	2.38it/s]
Power Factorization:	8%	42/500	[00:17<03:21,	2.27it/s]
Power Factorization:	9%	43/500	[00:18<03:24,	2.23it/s]
Power Factorization:	9%	44/500	[00:18<03:21,	2.26it/s]
Power Factorization:	9%	45/500	[00:18<03:17,	2.31it/s]
Power Factorization:	9%	46/500	[00:19<03:12,	2.35it/s]
Power Factorization:	9%	47/500	[00:19<03:10,	2.37it/s]
Power Factorization:	10%	48/500	[00:20<03:13,	2.33it/s]
Power Factorization:	10%	49/500	[00:20<03:24,	2.21it/s]
Power Factorization:	10%	50/500	[00:21<03:25,	2.19it/s]
Power Factorization:	10%	51/500	[00:21<03:22,	2.22it/s]

Power Factorization: 10%	52/500 [00:21<03:17, 2.27it/s]
Power Factorization: 11%	53/500 [00:22<03:15, 2.29it/s]
Power Factorization: 11%	54/500 [00:22<03:11, 2.33it/s]
Power Factorization: 11%	55/500 [00:23<03:12, 2.31it/s]
Power Factorization: 11%	56/500 [00:23<03:10, 2.33it/s]
Power Factorization: 11%	57/500 [00:25<05:18, 1.39it/s]
Power Factorization: 12%	58/500 [00:25<04:45, 1.55it/s]
Power Factorization: 12%	59/500 [00:26<04:18, 1.71it/s]
Power Factorization: 12%	60/500 [00:26<03:56, 1.86it/s]
Power Factorization: 12%	61/500 [00:26<03:39, 2.00it/s]
Power Factorization: 12%	62/500 [00:27<03:30, 2.08it/s]
Power Factorization: 13%	63/500 [00:27<03:21, 2.17it/s]
Power Factorization: 13%	64/500 [00:28<03:15, 2.23it/s]
Power Factorization: 13%	65/500 [00:28<03:07, 2.32it/s]
Power Factorization: 13%	66/500 [00:28<03:03, 2.36it/s]
Power Factorization: 13%	67/500 [00:29<03:01, 2.39it/s]
Power Factorization: 14%	68/500 [00:29<02:59, 2.40it/s]
Power Factorization: 14%	69/500 [00:30<02:59, 2.41it/s]
Power Factorization: 14%	70/500 [00:30<02:57, 2.42it/s]
Power Factorization: 14%	71/500 [00:30<03:00, 2.38it/s]
Power Factorization: 14%	72/500 [00:31<03:00, 2.37it/s]
Power Factorization: 15%	73/500 [00:31<02:58, 2.40it/s]
Power Factorization: 15%	74/500 [00:32<02:57, 2.40it/s]
Power Factorization: 15%	75/500 [00:32<02:54, 2.44it/s]

Power Factorization: 15%	76/500 [00:33<02:57, 2.38it/s]
Power Factorization: 15%	77/500 [00:33<02:56, 2.40it/s]
Power Factorization: 16%	78/500 [00:33<02:55, 2.41it/s]
Power Factorization: 16%	79/500 [00:34<02:55, 2.40it/s]
Power Factorization: 16%	80/500 [00:34<02:56, 2.38it/s]
Power Factorization: 16%	81/500 [00:35<03:03, 2.28it/s]
Power Factorization: 16%	82/500 [00:35<03:06, 2.24it/s]
Power Factorization: 17%	83/500 [00:36<03:06, 2.23it/s]
Power Factorization: 17%	84/500 [00:36<03:02, 2.28it/s]
Power Factorization: 17%	85/500 [00:36<02:58, 2.32it/s]
Power Factorization: 17%	86/500 [00:37<02:56, 2.34it/s]
Power Factorization: 17%	87/500 [00:37<02:53, 2.38it/s]
Power Factorization: 18%	88/500 [00:38<02:52, 2.38it/s]
Power Factorization: 18%	89/500 [00:38<02:56, 2.33it/s]
Power Factorization: 18%	90/500 [00:39<02:54, 2.35it/s]
Power Factorization: 18%	91/500 [00:39<02:52, 2.37it/s]
Power Factorization: 18%	92/500 [00:39<02:50, 2.39it/s]
Power Factorization: 19%	93/500 [00:40<02:49, 2.40it/s]
Power Factorization: 19%	94/500 [00:40<02:49, 2.40it/s]
Power Factorization: 19%	95/500 [00:41<02:48, 2.41it/s]
Power Factorization: 19%	96/500 [00:41<02:51, 2.36it/s]
Power Factorization: 19%	97/500 [00:41<02:48, 2.39it/s]
Power Factorization: 20%	98/500 [00:42<02:52, 2.33it/s]
Power Factorization: 20%	99/500 [00:42<02:57, 2.26it/s]

Power Factorization: 20%	100/500 [00:43<02:52, 2.32it/s]
Power Factorization: 20%	101/500 [00:43<02:49, 2.36it/s]
Power Factorization: 20%	102/500 [00:44<02:50, 2.34it/s]
Power Factorization: 21%	103/500 [00:44<02:47, 2.37it/s]
Power Factorization: 21%	104/500 [00:44<02:46, 2.37it/s]
Power Factorization: 21%	105/500 [00:45<02:49, 2.33it/s]
Power Factorization: 21%	106/500 [00:45<02:45, 2.38it/s]
Power Factorization: 21%	107/500 [00:46<02:43, 2.40it/s]
Power Factorization: 22%	108/500 [00:46<02:44, 2.38it/s]
Power Factorization: 22%	109/500 [00:47<02:43, 2.39it/s]
Power Factorization: 22%	110/500 [00:47<02:44, 2.37it/s]
Power Factorization: 22%	111/500 [00:47<02:43, 2.38it/s]
Power Factorization: 22%	112/500 [00:48<02:40, 2.41it/s]
Power Factorization: 23%	113/500 [00:48<02:43, 2.37it/s]
Power Factorization: 23%	114/500 [00:49<02:42, 2.37it/s]
Power Factorization: 23%	115/500 [00:49<02:44, 2.34it/s]
Power Factorization: 23%	116/500 [00:50<02:44, 2.33it/s]
Power Factorization: 23%	117/500 [00:50<02:42, 2.35it/s]
Power Factorization: 24%	118/500 [00:50<02:39, 2.39it/s]
Power Factorization: 24%	119/500 [00:51<02:39, 2.38it/s]
Power Factorization: 24%	120/500 [00:51<02:40, 2.36it/s]
Power Factorization: 24%	121/500 [00:52<02:38, 2.39it/s]
Power Factorization: 24%	122/500 [00:52<02:37, 2.40it/s]
Power Factorization: 25%	123/500 [00:52<02:34, 2.43it/s]

Power Factorization: 25%	124/500 [00:53<02:33, 2.45it/s]
Power Factorization: 25%	125/500 [00:53<02:34, 2.43it/s]
Power Factorization: 25%	126/500 [00:54<02:36, 2.39it/s]
Power Factorization: 25%	127/500 [00:54<02:35, 2.39it/s]
Power Factorization: 26%	128/500 [00:55<02:35, 2.40it/s]
Power Factorization: 26%	129/500 [00:55<02:36, 2.37it/s]
Power Factorization: 26%	130/500 [00:55<02:35, 2.39it/s]
Power Factorization: 26%	131/500 [00:56<02:33, 2.40it/s]
Power Factorization: 26%	132/500 [00:56<02:32, 2.42it/s]
Power Factorization: 27%	133/500 [00:57<02:34, 2.38it/s]
Power Factorization: 27%	134/500 [00:57<02:32, 2.41it/s]
Power Factorization: 27%	135/500 [00:57<02:31, 2.41it/s]
Power Factorization: 27%	136/500 [00:58<02:31, 2.41it/s]
Power Factorization: 27%	137/500 [00:58<02:33, 2.36it/s]
Power Factorization: 28%	138/500 [00:59<02:34, 2.34it/s]
Power Factorization: 28%	139/500 [00:59<02:33, 2.36it/s]
Power Factorization: 28%	140/500 [01:00<02:31, 2.37it/s]
Power Factorization: 28%	141/500 [01:00<02:29, 2.40it/s]
Power Factorization: 28%	142/500 [01:00<02:32, 2.35it/s]
Power Factorization: 29%	143/500 [01:01<02:29, 2.38it/s]
Power Factorization: 29%	144/500 [01:01<02:29, 2.39it/s]
Power Factorization: 29%	145/500 [01:02<02:26, 2.42it/s]
Power Factorization: 29%	146/500 [01:02<02:29, 2.36it/s]
Power Factorization: 29%	147/500 [01:03<02:31, 2.32it/s]

Power Factorization: 30%	148/500 [01:03<02:31, 2.33it/s]
Power Factorization: 30%	149/500 [01:03<02:28, 2.36it/s]
Power Factorization: 30%	150/500 [01:04<02:26, 2.39it/s]
Power Factorization: 30%	151/500 [01:04<02:24, 2.41it/s]
Power Factorization: 30%	152/500 [01:05<02:25, 2.38it/s]
Power Factorization: 31%	153/500 [01:05<02:24, 2.40it/s]
Power Factorization: 31%	154/500 [01:05<02:24, 2.40it/s]
Power Factorization: 31%	155/500 [01:06<02:27, 2.34it/s]
Power Factorization: 31%	156/500 [01:06<02:29, 2.29it/s]
Power Factorization: 31%	157/500 [01:07<02:31, 2.27it/s]
Power Factorization: 32%	158/500 [01:07<02:30, 2.28it/s]
Power Factorization: 32%	159/500 [01:08<02:29, 2.28it/s]
Power Factorization: 32%	160/500 [01:08<02:25, 2.34it/s]
Power Factorization: 32%	161/500 [01:09<02:26, 2.31it/s]
Power Factorization: 32%	162/500 [01:09<02:28, 2.27it/s]
Power Factorization: 33%	163/500 [01:09<02:25, 2.31it/s]
Power Factorization: 33%	164/500 [01:10<02:23, 2.35it/s]
Power Factorization: 33%	165/500 [01:10<02:21, 2.37it/s]
Power Factorization: 33%	166/500 [01:11<02:18, 2.41it/s]
Power Factorization: 33%	167/500 [01:11<02:19, 2.39it/s]
Power Factorization: 34%	168/500 [01:11<02:18, 2.39it/s]
Power Factorization: 34%	169/500 [01:12<02:18, 2.38it/s]
Power Factorization: 34%	170/500 [01:12<02:16, 2.42it/s]
Power Factorization: 34%	171/500 [01:13<02:17, 2.39it/s]

Power Factorization: 34%	172/500 [01:13<02:16,	2.41it/s]
Power Factorization: 35%	173/500 [01:14<02:16,	2.40it/s]
Power Factorization: 35%	174/500 [01:14<02:16,	2.39it/s]
Power Factorization: 35%	175/500 [01:14<02:15,	2.39it/s]
Power Factorization: 35%	176/500 [01:15<02:14,	2.41it/s]
Power Factorization: 35%	177/500 [01:15<02:21,	2.28it/s]
Power Factorization: 36%	178/500 [01:16<02:17,	2.34it/s]
Power Factorization: 36%	179/500 [01:16<02:17,	2.34it/s]
Power Factorization: 36%	180/500 [01:17<02:15,	2.36it/s]
Power Factorization: 36%	181/500 [01:17<02:17,	2.33it/s]
Power Factorization: 36%	182/500 [01:17<02:14,	2.36it/s]
Power Factorization: 37%	183/500 [01:18<02:11,	2.40it/s]
Power Factorization: 37%	184/500 [01:18<02:10,	2.42it/s]
Power Factorization: 37%	185/500 [01:19<02:11,	2.40it/s]
Power Factorization: 37%	186/500 [01:19<02:09,	2.42it/s]
Power Factorization: 37%	187/500 [01:19<02:09,	2.41it/s]
Power Factorization: 38%	188/500 [01:20<02:13,	2.34it/s]
Power Factorization: 38%	189/500 [01:20<02:13,	2.32it/s]
Power Factorization: 38%	190/500 [01:21<02:13,	2.31it/s]
Power Factorization: 38%	191/500 [01:21<02:13,	2.32it/s]
Power Factorization: 38%	192/500 [01:22<02:16,	2.26it/s]
Power Factorization: 39%	193/500 [01:22<02:17,	2.23it/s]
Power Factorization: 39%	194/500 [01:23<02:15,	2.25it/s]
Power Factorization: 39%	195/500 [01:23<02:13,	2.29it/s]

Power Factorization: 39%	196/500 [01:23<02:10, 2.33it/s]
Power Factorization: 39%	197/500 [01:24<02:09, 2.35it/s]
Power Factorization: 40%	198/500 [01:24<02:08, 2.35it/s]
Power Factorization: 40%	199/500 [01:25<02:06, 2.38it/s]
Power Factorization: 40%	200/500 [01:25<02:08, 2.34it/s]
Power Factorization: 40%	201/500 [01:26<02:07, 2.34it/s]
Power Factorization: 40%	202/500 [01:26<02:07, 2.34it/s]
Power Factorization: 41%	203/500 [01:26<02:06, 2.35it/s]
Power Factorization: 41%	204/500 [01:27<02:05, 2.36it/s]
Power Factorization: 41%	205/500 [01:27<02:03, 2.38it/s]
Power Factorization: 41%	206/500 [01:28<02:04, 2.35it/s]
Power Factorization: 41%	207/500 [01:28<02:03, 2.37it/s]
Power Factorization: 42%	208/500 [01:28<02:03, 2.37it/s]
Power Factorization: 42%	209/500 [01:29<02:03, 2.35it/s]
Power Factorization: 42%	210/500 [01:29<02:01, 2.39it/s]
Power Factorization: 42%	211/500 [01:30<02:00, 2.41it/s]
Power Factorization: 42%	212/500 [01:30<01:58, 2.43it/s]
Power Factorization: 43%	213/500 [01:31<01:57, 2.43it/s]
Power Factorization: 43%	214/500 [01:31<01:59, 2.39it/s]
Power Factorization: 43%	215/500 [01:31<02:00, 2.36it/s]
Power Factorization: 43%	216/500 [01:32<02:01, 2.34it/s]
Power Factorization: 43%	217/500 [01:32<02:00, 2.34it/s]
Power Factorization: 44%	218/500 [01:33<02:00, 2.34it/s]
Power Factorization: 44%	219/500 [01:33<02:00, 2.34it/s]

Power Factorization: 44%	220/500 [01:34<01:58, 2.37it/s]
Power Factorization: 44%	221/500 [01:34<01:57, 2.37it/s]
Power Factorization: 44%	222/500 [01:34<01:58, 2.34it/s]
Power Factorization: 45%	223/500 [01:35<01:57, 2.36it/s]
Power Factorization: 45%	224/500 [01:35<01:58, 2.33it/s]
Power Factorization: 45%	225/500 [01:36<01:57, 2.35it/s]
Power Factorization: 45%	226/500 [01:36<01:55, 2.37it/s]
Power Factorization: 45%	227/500 [01:37<01:59, 2.29it/s]
Power Factorization: 46%	228/500 [01:37<01:56, 2.34it/s]
Power Factorization: 46%	229/500 [01:37<01:57, 2.31it/s]
Power Factorization: 46%	230/500 [01:38<01:55, 2.34it/s]
Power Factorization: 46%	231/500 [01:38<01:54, 2.36it/s]
Power Factorization: 46%	232/500 [01:39<01:52, 2.38it/s]
Power Factorization: 47%	233/500 [01:39<01:55, 2.31it/s]
Power Factorization: 47%	234/500 [01:40<01:53, 2.35it/s]
Power Factorization: 47%	235/500 [01:40<01:51, 2.38it/s]
Power Factorization: 47%	236/500 [01:40<01:51, 2.37it/s]
Power Factorization: 47%	237/500 [01:41<01:50, 2.38it/s]
Power Factorization: 48%	238/500 [01:41<01:50, 2.38it/s]
Power Factorization: 48%	239/500 [01:42<01:49, 2.37it/s]
Power Factorization: 48%	240/500 [01:42<01:50, 2.36it/s]
Power Factorization: 48%	241/500 [01:42<01:48, 2.39it/s]
Power Factorization: 48%	242/500 [01:43<01:49, 2.36it/s]
Power Factorization: 49%	243/500 [01:43<01:48, 2.37it/s]

Power Factorization: 49%	244/500 [01:44<01:46, 2.40it/s]
Power Factorization: 49%	245/500 [01:44<01:49, 2.34it/s]
Power Factorization: 49%	246/500 [01:45<01:47, 2.36it/s]
Power Factorization: 49%	247/500 [01:45<01:47, 2.35it/s]
Power Factorization: 50%	248/500 [01:45<01:47, 2.34it/s]
Power Factorization: 50%	249/500 [01:46<01:47, 2.34it/s]
Power Factorization: 50%	250/500 [01:46<01:47, 2.33it/s]
Power Factorization: 50%	251/500 [01:47<01:46, 2.33it/s]
Power Factorization: 50%	252/500 [01:47<01:45, 2.36it/s]
Power Factorization: 51%	253/500 [01:48<01:42, 2.40it/s]
Power Factorization: 51%	254/500 [01:48<01:42, 2.40it/s]
Power Factorization: 51%	255/500 [01:48<01:41, 2.42it/s]
Power Factorization: 51%	256/500 [01:49<01:42, 2.38it/s]
Power Factorization: 51%	257/500 [01:49<01:41, 2.39it/s]
Power Factorization: 52%	258/500 [01:50<01:40, 2.42it/s]
Power Factorization: 52%	259/500 [01:50<01:40, 2.39it/s]
Power Factorization: 52%	260/500 [01:50<01:39, 2.41it/s]
Power Factorization: 52%	261/500 [01:51<01:39, 2.40it/s]
Power Factorization: 52%	262/500 [01:51<01:39, 2.39it/s]
Power Factorization: 53%	263/500 [01:52<01:38, 2.40it/s]
Power Factorization: 53%	264/500 [01:52<01:37, 2.41it/s]
Power Factorization: 53%	265/500 [01:53<01:37, 2.42it/s]
Power Factorization: 53%	266/500 [01:53<01:38, 2.38it/s]
Power Factorization: 53%	267/500 [01:53<01:38, 2.37it/s]

Power Factorization: 54%	268/500 [01:54<01:36, 2.40it/s]
Power Factorization: 54%	269/500 [01:54<01:35, 2.42it/s]
Power Factorization: 54%	270/500 [01:55<01:34, 2.43it/s]
Power Factorization: 54%	271/500 [01:55<01:36, 2.38it/s]
Power Factorization: 54%	272/500 [01:55<01:35, 2.39it/s]
Power Factorization: 55%	273/500 [01:56<01:34, 2.40it/s]
Power Factorization: 55%	274/500 [01:56<01:35, 2.36it/s]
Power Factorization: 55%	275/500 [01:57<01:37, 2.30it/s]
Power Factorization: 55%	276/500 [01:57<01:35, 2.35it/s]
Power Factorization: 55%	277/500 [01:58<01:33, 2.39it/s]
Power Factorization: 56%	278/500 [01:58<01:31, 2.42it/s]
Power Factorization: 56%	279/500 [01:58<01:30, 2.45it/s]
Power Factorization: 56%	280/500 [01:59<01:30, 2.44it/s]
Power Factorization: 56%	281/500 [01:59<01:29, 2.44it/s]
Power Factorization: 56%	282/500 [02:00<01:29, 2.44it/s]
Power Factorization: 57%	283/500 [02:00<01:29, 2.43it/s]
Power Factorization: 57%	284/500 [02:00<01:27, 2.48it/s]
Power Factorization: 57%	285/500 [02:01<01:26, 2.49it/s]
Power Factorization: 57%	286/500 [02:01<01:26, 2.46it/s]
Power Factorization: 57%	287/500 [02:02<01:27, 2.43it/s]
Power Factorization: 58%	288/500 [02:02<01:29, 2.37it/s]
Power Factorization: 58%	289/500 [02:03<01:28, 2.39it/s]
Power Factorization: 58%	290/500 [02:03<01:26, 2.42it/s]
Power Factorization: 58%	291/500 [02:03<01:25, 2.44it/s]

Power Factorization: 58%	292/500 [02:04<01:25, 2.42it/s]
Power Factorization: 59%	293/500 [02:04<01:25, 2.42it/s]
Power Factorization: 59%	294/500 [02:05<01:27, 2.34it/s]
Power Factorization: 59%	295/500 [02:05<01:26, 2.37it/s]
Power Factorization: 59%	296/500 [02:05<01:26, 2.37it/s]
Power Factorization: 59%	297/500 [02:06<01:27, 2.32it/s]
Power Factorization: 60%	298/500 [02:06<01:25, 2.36it/s]
Power Factorization: 60%	299/500 [02:07<01:24, 2.38it/s]
Power Factorization: 60%	300/500 [02:07<01:23, 2.40it/s]
Power Factorization: 60%	301/500 [02:08<01:22, 2.40it/s]
Power Factorization: 60%	302/500 [02:08<01:24, 2.35it/s]
Power Factorization: 61%	303/500 [02:08<01:24, 2.34it/s]
Power Factorization: 61%	304/500 [02:09<01:25, 2.29it/s]
Power Factorization: 61%	305/500 [02:09<01:24, 2.32it/s]
Power Factorization: 61%	306/500 [02:10<01:21, 2.37it/s]
Power Factorization: 61%	307/500 [02:10<01:23, 2.32it/s]
Power Factorization: 62%	308/500 [02:11<01:24, 2.28it/s]
Power Factorization: 62%	309/500 [02:11<01:22, 2.31it/s]
Power Factorization: 62%	310/500 [02:11<01:20, 2.35it/s]
Power Factorization: 62%	311/500 [02:12<01:21, 2.32it/s]
Power Factorization: 62%	312/500 [02:12<01:20, 2.34it/s]
Power Factorization: 63%	313/500 [02:13<01:19, 2.35it/s]
Power Factorization: 63%	314/500 [02:13<01:34, 1.97it/s]
Power Factorization: 63%	315/500 [02:14<01:28, 2.09it/s]

Power Factorization: 63%	316/500 [02:14<01:26, 2.12it/s]
Power Factorization: 63%	317/500 [02:15<01:24, 2.16it/s]
Power Factorization: 64%	318/500 [02:15<01:20, 2.25it/s]
Power Factorization: 64%	319/500 [02:16<01:18, 2.30it/s]
Power Factorization: 64%	320/500 [02:16<01:16, 2.35it/s]
Power Factorization: 64%	321/500 [02:16<01:18, 2.27it/s]
Power Factorization: 64%	322/500 [02:17<01:19, 2.25it/s]
Power Factorization: 65%	323/500 [02:17<01:18, 2.24it/s]
Power Factorization: 65%	324/500 [02:18<01:16, 2.30it/s]
Power Factorization: 65%	325/500 [02:18<01:14, 2.35it/s]
Power Factorization: 65%	326/500 [02:19<01:13, 2.35it/s]
Power Factorization: 65%	327/500 [02:19<01:13, 2.34it/s]
Power Factorization: 66%	328/500 [02:19<01:14, 2.30it/s]
Power Factorization: 66%	329/500 [02:20<01:13, 2.32it/s]
Power Factorization: 66%	330/500 [02:20<01:12, 2.33it/s]
Power Factorization: 66%	331/500 [02:21<01:11, 2.36it/s]
Power Factorization: 66%	332/500 [02:21<01:10, 2.39it/s]
Power Factorization: 67%	333/500 [02:22<01:08, 2.42it/s]
Power Factorization: 67%	334/500 [02:22<01:08, 2.42it/s]
Power Factorization: 67%	335/500 [02:22<01:08, 2.40it/s]
Power Factorization: 67%	336/500 [02:23<01:09, 2.36it/s]
Power Factorization: 67%	337/500 [02:23<01:09, 2.34it/s]
Power Factorization: 68%	338/500 [02:24<01:08, 2.37it/s]
Power Factorization: 68%	339/500 [02:24<01:07, 2.38it/s]

Power Factorization: 68%	340/500 [02:24<01:07, 2.36it/s]
Power Factorization: 68%	341/500 [02:25<01:07, 2.36it/s]
Power Factorization: 68%	342/500 [02:25<01:06, 2.38it/s]
Power Factorization: 69%	343/500 [02:26<01:06, 2.37it/s]
Power Factorization: 69%	344/500 [02:26<01:05, 2.38it/s]
Power Factorization: 69%	345/500 [02:27<01:05, 2.35it/s]
Power Factorization: 69%	346/500 [02:27<01:04, 2.38it/s]
Power Factorization: 69%	347/500 [02:27<01:05, 2.33it/s]
Power Factorization: 70%	348/500 [02:28<01:04, 2.35it/s]
Power Factorization: 70%	349/500 [02:28<01:03, 2.37it/s]
Power Factorization: 70%	350/500 [02:29<01:03, 2.35it/s]
Power Factorization: 70%	351/500 [02:29<01:03, 2.36it/s]
Power Factorization: 70%	352/500 [02:30<01:01, 2.40it/s]
Power Factorization: 71%	353/500 [02:30<01:02, 2.35it/s]
Power Factorization: 71%	354/500 [02:30<01:02, 2.35it/s]
Power Factorization: 71%	355/500 [02:31<01:01, 2.37it/s]
Power Factorization: 71%	356/500 [02:31<01:00, 2.36it/s]
Power Factorization: 71%	357/500 [02:32<01:01, 2.33it/s]
Power Factorization: 72%	358/500 [02:32<01:00, 2.34it/s]
Power Factorization: 72%	359/500 [02:33<01:00, 2.32it/s]
Power Factorization: 72%	360/500 [02:33<00:59, 2.33it/s]
Power Factorization: 72%	361/500 [02:33<01:01, 2.27it/s]
Power Factorization: 72%	362/500 [02:34<00:59, 2.31it/s]
Power Factorization: 73%	363/500 [02:34<00:58, 2.36it/s]

Power Factorization: 73%	364/500 [02:35<00:59, 2.28it/s]
Power Factorization: 73%	365/500 [02:35<00:57, 2.33it/s]
Power Factorization: 73%	366/500 [02:36<00:57, 2.35it/s]
Power Factorization: 73%	367/500 [02:36<00:57, 2.33it/s]
Power Factorization: 74%	368/500 [02:36<00:57, 2.31it/s]
Power Factorization: 74%	369/500 [02:37<00:58, 2.26it/s]
Power Factorization: 74%	370/500 [02:37<00:57, 2.25it/s]
Power Factorization: 74%	371/500 [02:38<01:12, 1.78it/s]
Power Factorization: 74%	372/500 [02:39<01:06, 1.94it/s]
Power Factorization: 75%	373/500 [02:39<01:01, 2.05it/s]
Power Factorization: 75%	374/500 [02:40<01:01, 2.04it/s]
Power Factorization: 75%	375/500 [02:40<00:59, 2.10it/s]
Power Factorization: 75%	376/500 [02:40<00:57, 2.17it/s]
Power Factorization: 75%	377/500 [02:41<00:56, 2.18it/s]
Power Factorization: 76%	378/500 [02:41<00:54, 2.24it/s]
Power Factorization: 76%	379/500 [02:42<00:52, 2.29it/s]
Power Factorization: 76%	380/500 [02:42<00:51, 2.33it/s]
Power Factorization: 76%	381/500 [02:42<00:50, 2.33it/s]
Power Factorization: 76%	382/500 [02:43<00:51, 2.29it/s]
Power Factorization: 77%	383/500 [02:43<00:51, 2.28it/s]
Power Factorization: 77%	384/500 [02:44<00:50, 2.30it/s]
Power Factorization: 77%	385/500 [02:44<00:50, 2.29it/s]
Power Factorization: 77%	386/500 [02:45<00:49, 2.31it/s]
Power Factorization: 77%	387/500 [02:45<00:48, 2.32it/s]

Power Factorization: 78%	388/500 [02:46<00:48, 2.31it/s]
Power Factorization: 78%	389/500 [02:46<00:48, 2.30it/s]
Power Factorization: 78%	390/500 [02:46<00:47, 2.30it/s]
Power Factorization: 78%	391/500 [02:47<00:47, 2.30it/s]
Power Factorization: 78%	392/500 [02:47<00:47, 2.28it/s]
Power Factorization: 79%	393/500 [02:48<00:46, 2.30it/s]
Power Factorization: 79%	394/500 [02:48<00:46, 2.29it/s]
Power Factorization: 79%	395/500 [02:49<00:45, 2.30it/s]
Power Factorization: 79%	396/500 [02:49<00:45, 2.29it/s]
Power Factorization: 79%	397/500 [02:49<00:44, 2.30it/s]
Power Factorization: 80%	398/500 [02:50<00:44, 2.27it/s]
Power Factorization: 80%	399/500 [02:50<00:44, 2.29it/s]
Power Factorization: 80%	400/500 [02:51<00:43, 2.28it/s]
Power Factorization: 80%	401/500 [02:51<00:43, 2.29it/s]
Power Factorization: 80%	402/500 [02:52<00:43, 2.27it/s]
Power Factorization: 81%	403/500 [02:52<00:42, 2.29it/s]
Power Factorization: 81%	404/500 [02:53<00:41, 2.30it/s]
Power Factorization: 81%	405/500 [02:53<00:42, 2.25it/s]
Power Factorization: 81%	406/500 [02:53<00:41, 2.26it/s]
Power Factorization: 81%	407/500 [02:54<00:41, 2.25it/s]
Power Factorization: 82%	408/500 [02:54<00:40, 2.29it/s]
Power Factorization: 82%	409/500 [02:55<00:40, 2.26it/s]
Power Factorization: 82%	410/500 [02:55<00:39, 2.27it/s]
Power Factorization: 82%	411/500 [02:56<00:39, 2.26it/s]

Power Factorization: 82%	412/500 [02:56<00:39,	2.21it/s]
Power Factorization: 83%	413/500 [02:57<00:38,	2.23it/s]
Power Factorization: 83%	414/500 [02:57<00:37,	2.27it/s]
Power Factorization: 83%	415/500 [02:57<00:37,	2.26it/s]
Power Factorization: 83%	416/500 [02:58<00:37,	2.26it/s]
Power Factorization: 83%	417/500 [02:58<00:36,	2.26it/s]
Power Factorization: 84%	418/500 [02:59<00:36,	2.27it/s]
Power Factorization: 84%	419/500 [02:59<00:35,	2.26it/s]
Power Factorization: 84%	420/500 [03:00<00:35,	2.26it/s]
Power Factorization: 84%	421/500 [03:00<00:34,	2.27it/s]
Power Factorization: 84%	422/500 [03:01<00:34,	2.27it/s]
Power Factorization: 85%	423/500 [03:01<00:33,	2.27it/s]
Power Factorization: 85%	424/500 [03:01<00:33,	2.27it/s]
Power Factorization: 85%	425/500 [03:02<00:33,	2.26it/s]
Power Factorization: 85%	426/500 [03:02<00:33,	2.20it/s]
Power Factorization: 85%	427/500 [03:03<00:32,	2.22it/s]
Power Factorization: 86%	428/500 [03:03<00:32,	2.23it/s]
Power Factorization: 86%	429/500 [03:04<00:31,	2.26it/s]
Power Factorization: 86%	430/500 [03:04<00:30,	2.26it/s]
Power Factorization: 86%	431/500 [03:05<00:30,	2.27it/s]
Power Factorization: 86%	432/500 [03:05<00:30,	2.27it/s]
Power Factorization: 87%	433/500 [03:05<00:29,	2.27it/s]
Power Factorization: 87%	434/500 [03:06<00:29,	2.26it/s]
Power Factorization: 87%	435/500 [03:06<00:28,	2.25it/s]

Power Factorization: 87%	436/500 [03:07<00:28,	2.27it/s]
Power Factorization: 87%	437/500 [03:07<00:29,	2.16it/s]
Power Factorization: 88%	438/500 [03:08<00:28,	2.17it/s]
Power Factorization: 88%	439/500 [03:08<00:27,	2.21it/s]
Power Factorization: 88%	440/500 [03:09<00:27,	2.20it/s]
Power Factorization: 88%	441/500 [03:09<00:26,	2.20it/s]
Power Factorization: 88%	442/500 [03:10<00:26,	2.16it/s]
Power Factorization: 89%	443/500 [03:10<00:26,	2.17it/s]
Power Factorization: 89%	444/500 [03:10<00:25,	2.20it/s]
Power Factorization: 89%	445/500 [03:11<00:24,	2.22it/s]
Power Factorization: 89%	446/500 [03:11<00:24,	2.19it/s]
Power Factorization: 89%	447/500 [03:12<00:24,	2.21it/s]
Power Factorization: 90%	448/500 [03:12<00:23,	2.20it/s]
Power Factorization: 90%	449/500 [03:13<00:23,	2.16it/s]
Power Factorization: 90%	450/500 [03:13<00:22,	2.19it/s]
Power Factorization: 90%	451/500 [03:14<00:22,	2.19it/s]
Power Factorization: 90%	452/500 [03:14<00:21,	2.21it/s]
Power Factorization: 91%	453/500 [03:14<00:20,	2.26it/s]
Power Factorization: 91%	454/500 [03:15<00:20,	2.28it/s]
Power Factorization: 91%	455/500 [03:15<00:19,	2.28it/s]
Power Factorization: 91%	456/500 [03:16<00:19,	2.28it/s]
Power Factorization: 91%	457/500 [03:16<00:18,	2.27it/s]
Power Factorization: 92%	458/500 [03:17<00:18,	2.23it/s]
Power Factorization: 92%	459/500 [03:17<00:18,	2.17it/s]

Power Factorization: 92%	460/500 [03:18<00:18, 2.18it/s]
Power Factorization: 92%	461/500 [03:18<00:17, 2.22it/s]
Power Factorization: 92%	462/500 [03:19<00:16, 2.26it/s]
Power Factorization: 93%	463/500 [03:19<00:16, 2.23it/s]
Power Factorization: 93%	464/500 [03:19<00:15, 2.27it/s]
Power Factorization: 93%	465/500 [03:20<00:15, 2.29it/s]
Power Factorization: 93%	466/500 [03:20<00:14, 2.28it/s]
Power Factorization: 93%	467/500 [03:21<00:15, 2.19it/s]
Power Factorization: 94%	468/500 [03:21<00:14, 2.15it/s]
Power Factorization: 94%	469/500 [03:22<00:14, 2.19it/s]
Power Factorization: 94%	470/500 [03:22<00:13, 2.26it/s]
Power Factorization: 94%	471/500 [03:23<00:12, 2.28it/s]
Power Factorization: 94%	472/500 [03:23<00:12, 2.31it/s]
Power Factorization: 95%	473/500 [03:23<00:11, 2.31it/s]
Power Factorization: 95%	474/500 [03:24<00:11, 2.33it/s]
Power Factorization: 95%	475/500 [03:24<00:10, 2.33it/s]
Power Factorization: 95%	476/500 [03:25<00:10, 2.34it/s]
Power Factorization: 95%	477/500 [03:25<00:09, 2.30it/s]
Power Factorization: 96%	478/500 [03:26<00:09, 2.31it/s]
Power Factorization: 96%	479/500 [03:26<00:09, 2.32it/s]
Power Factorization: 96%	480/500 [03:26<00:08, 2.30it/s]
Power Factorization: 96%	481/500 [03:27<00:08, 2.30it/s]
Power Factorization: 96%	482/500 [03:27<00:07, 2.32it/s]
Power Factorization: 97%	483/500 [03:28<00:07, 2.27it/s]

Power Factorization: 97%	484/500 [03:28<00:07, 2.27it/s]
Power Factorization: 97%	485/500 [03:29<00:06, 2.28it/s]
Power Factorization: 97%	486/500 [03:29<00:06, 2.29it/s]
Power Factorization: 97%	487/500 [03:29<00:05, 2.29it/s]
Power Factorization: 98%	488/500 [03:30<00:05, 2.29it/s]
Power Factorization: 98%	489/500 [03:30<00:04, 2.25it/s]
Power Factorization: 98%	490/500 [03:31<00:04, 2.25it/s]
Power Factorization: 98%	491/500 [03:31<00:04, 2.18it/s]
Power Factorization: 98%	492/500 [03:32<00:03, 2.16it/s]
Power Factorization: 99%	493/500 [03:32<00:03, 2.18it/s]
Power Factorization: 99%	494/500 [03:33<00:02, 2.23it/s]
Power Factorization: 99%	495/500 [03:33<00:02, 2.20it/s]
Power Factorization: 99%	496/500 [03:34<00:01, 2.13it/s]
Power Factorization: 99%	497/500 [03:34<00:01, 2.17it/s]
Power Factorization: 100%	498/500 [03:34<00:00, 2.19it/s]
Power Factorization: 100%	499/500 [03:35<00:00, 2.21it/s]
Power Factorization: 100%	500/500 [03:35<00:00, 2.32it/s]
Cross Validation: 60%	3/5 [10:48<07:15, 217.55s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:33, 2.33it/s]
Power Factorization: 0%	2/500 [00:00<03:36, 2.30it/s]
Power Factorization: 1%	3/500 [00:01<03:38, 2.27it/s]
Power Factorization: 1%	4/500 [00:01<03:50, 2.15it/s]
Power Factorization: 1%	5/500 [00:02<03:49, 2.16it/s]

Power Factorization:	1%	6/500 [00:02<03:45, 2.19it/s]
Power Factorization:	1%	7/500 [00:03<03:43, 2.20it/s]
Power Factorization:	2%	8/500 [00:03<03:43, 2.20it/s]
Power Factorization:	2%	9/500 [00:04<03:47, 2.16it/s]
Power Factorization:	2%	10/500 [00:04<03:41, 2.21it/s]
Power Factorization:	2%	11/500 [00:04<03:40, 2.21it/s]
Power Factorization:	2%	12/500 [00:05<03:37, 2.24it/s]
Power Factorization:	3%	13/500 [00:05<03:37, 2.24it/s]
Power Factorization:	3%	14/500 [00:06<03:37, 2.23it/s]
Power Factorization:	3%	15/500 [00:06<03:41, 2.19it/s]
Power Factorization:	3%	16/500 [00:07<03:46, 2.14it/s]
Power Factorization:	3%	17/500 [00:07<03:46, 2.13it/s]
Power Factorization:	4%	18/500 [00:08<03:53, 2.07it/s]
Power Factorization:	4%	19/500 [00:08<03:51, 2.08it/s]
Power Factorization:	4%	20/500 [00:09<03:53, 2.05it/s]
Power Factorization:	4%	21/500 [00:09<03:52, 2.06it/s]
Power Factorization:	4%	22/500 [00:10<03:51, 2.07it/s]
Power Factorization:	5%	23/500 [00:10<03:53, 2.04it/s]
Power Factorization:	5%	24/500 [00:11<03:50, 2.06it/s]
Power Factorization:	5%	25/500 [00:11<03:56, 2.01it/s]
Power Factorization:	5%	26/500 [00:12<03:52, 2.04it/s]
Power Factorization:	5%	27/500 [00:12<03:44, 2.11it/s]
Power Factorization:	6%	28/500 [00:13<03:40, 2.14it/s]
Power Factorization:	6%	29/500 [00:13<03:40, 2.14it/s]

Power Factorization:	6%	30/500	[00:14<03:38,	2.15it/s]
Power Factorization:	6%	31/500	[00:14<03:37,	2.16it/s]
Power Factorization:	6%	32/500	[00:14<03:34,	2.18it/s]
Power Factorization:	7%	33/500	[00:15<03:42,	2.10it/s]
Power Factorization:	7%	34/500	[00:15<03:45,	2.06it/s]
Power Factorization:	7%	35/500	[00:16<03:44,	2.07it/s]
Power Factorization:	7%	36/500	[00:16<03:48,	2.03it/s]
Power Factorization:	7%	37/500	[00:19<09:14,	1.20s/it]
Power Factorization:	8%	38/500	[00:20<07:37,	1.01it/s]
Power Factorization:	8%	39/500	[00:20<06:25,	1.20it/s]
Power Factorization:	8%	40/500	[00:21<05:27,	1.40it/s]
Power Factorization:	8%	41/500	[00:21<04:52,	1.57it/s]
Power Factorization:	8%	42/500	[00:22<04:28,	1.71it/s]
Power Factorization:	9%	43/500	[00:22<04:05,	1.86it/s]
Power Factorization:	9%	44/500	[00:23<03:56,	1.93it/s]
Power Factorization:	9%	45/500	[00:23<03:44,	2.03it/s]
Power Factorization:	9%	46/500	[00:23<03:37,	2.09it/s]
Power Factorization:	9%	47/500	[00:24<03:35,	2.10it/s]
Power Factorization:	10%	48/500	[00:24<03:46,	2.00it/s]
Power Factorization:	10%	49/500	[00:25<03:49,	1.97it/s]
Power Factorization:	10%	50/500	[00:25<03:45,	1.99it/s]
Power Factorization:	10%	51/500	[00:26<03:43,	2.01it/s]
Power Factorization:	10%	52/500	[00:26<03:39,	2.04it/s]
Power Factorization:	11%	53/500	[00:27<03:36,	2.07it/s]

Power Factorization: 11%	54/500 [00:27<03:31, 2.11it/s]
Power Factorization: 11%	55/500 [00:28<03:31, 2.10it/s]
Power Factorization: 11%	56/500 [00:28<03:28, 2.13it/s]
Power Factorization: 11%	57/500 [00:29<03:29, 2.12it/s]
Power Factorization: 12%	58/500 [00:29<03:25, 2.15it/s]
Power Factorization: 12%	59/500 [00:30<03:25, 2.14it/s]
Power Factorization: 12%	60/500 [00:30<03:28, 2.11it/s]
Power Factorization: 12%	61/500 [00:31<03:29, 2.10it/s]
Power Factorization: 12%	62/500 [00:31<03:29, 2.09it/s]
Power Factorization: 13%	63/500 [00:32<03:30, 2.08it/s]
Power Factorization: 13%	64/500 [00:32<03:26, 2.11it/s]
Power Factorization: 13%	65/500 [00:32<03:21, 2.16it/s]
Power Factorization: 13%	66/500 [00:33<03:24, 2.12it/s]
Power Factorization: 13%	67/500 [00:33<03:20, 2.15it/s]
Power Factorization: 14%	68/500 [00:34<03:17, 2.19it/s]
Power Factorization: 14%	69/500 [00:35<05:10, 1.39it/s]
Power Factorization: 14%	70/500 [00:36<04:36, 1.56it/s]
Power Factorization: 14%	71/500 [00:36<04:12, 1.70it/s]
Power Factorization: 14%	72/500 [00:37<03:53, 1.83it/s]
Power Factorization: 15%	73/500 [00:37<03:36, 1.97it/s]
Power Factorization: 15%	74/500 [00:37<03:24, 2.08it/s]
Power Factorization: 15%	75/500 [00:38<03:18, 2.14it/s]
Power Factorization: 15%	76/500 [00:38<03:14, 2.18it/s]
Power Factorization: 15%	77/500 [00:39<03:14, 2.18it/s]

Power Factorization: 16%	78/500 [00:39<03:10, 2.21it/s]
Power Factorization: 16%	79/500 [00:40<03:09, 2.22it/s]
Power Factorization: 16%	80/500 [00:40<03:10, 2.20it/s]
Power Factorization: 16%	81/500 [00:41<03:06, 2.25it/s]
Power Factorization: 16%	82/500 [00:41<03:06, 2.24it/s]
Power Factorization: 17%	83/500 [00:41<03:16, 2.13it/s]
Power Factorization: 17%	84/500 [00:42<03:15, 2.13it/s]
Power Factorization: 17%	85/500 [00:42<03:10, 2.18it/s]
Power Factorization: 17%	86/500 [00:43<03:10, 2.18it/s]
Power Factorization: 17%	87/500 [00:43<03:07, 2.20it/s]
Power Factorization: 18%	88/500 [00:44<03:06, 2.21it/s]
Power Factorization: 18%	89/500 [00:44<03:05, 2.22it/s]
Power Factorization: 18%	90/500 [00:45<03:06, 2.20it/s]
Power Factorization: 18%	91/500 [00:45<03:03, 2.23it/s]
Power Factorization: 18%	92/500 [00:46<03:05, 2.20it/s]
Power Factorization: 19%	93/500 [00:46<03:03, 2.22it/s]
Power Factorization: 19%	94/500 [00:46<03:02, 2.22it/s]
Power Factorization: 19%	95/500 [00:47<03:03, 2.21it/s]
Power Factorization: 19%	96/500 [00:47<03:01, 2.23it/s]
Power Factorization: 19%	97/500 [00:48<03:02, 2.21it/s]
Power Factorization: 20%	98/500 [00:48<03:03, 2.18it/s]
Power Factorization: 20%	99/500 [00:49<03:01, 2.21it/s]
Power Factorization: 20%	100/500 [00:49<03:00, 2.22it/s]
Power Factorization: 20%	101/500 [00:50<02:59, 2.23it/s]

Power Factorization: 20%	102/500 [00:50<03:02, 2.18it/s]
Power Factorization: 21%	103/500 [00:51<03:03, 2.16it/s]
Power Factorization: 21%	104/500 [00:51<03:01, 2.18it/s]
Power Factorization: 21%	105/500 [00:51<02:59, 2.20it/s]
Power Factorization: 21%	106/500 [00:52<02:57, 2.22it/s]
Power Factorization: 21%	107/500 [00:52<02:58, 2.20it/s]
Power Factorization: 22%	108/500 [00:53<02:59, 2.18it/s]
Power Factorization: 22%	109/500 [00:53<02:59, 2.18it/s]
Power Factorization: 22%	110/500 [00:54<02:58, 2.19it/s]
Power Factorization: 22%	111/500 [00:54<02:56, 2.20it/s]
Power Factorization: 22%	112/500 [00:55<02:55, 2.21it/s]
Power Factorization: 23%	113/500 [00:55<02:54, 2.22it/s]
Power Factorization: 23%	114/500 [00:56<02:56, 2.19it/s]
Power Factorization: 23%	115/500 [00:56<02:53, 2.22it/s]
Power Factorization: 23%	116/500 [00:56<02:50, 2.25it/s]
Power Factorization: 23%	117/500 [00:57<02:50, 2.25it/s]
Power Factorization: 24%	118/500 [00:57<02:49, 2.26it/s]
Power Factorization: 24%	119/500 [00:58<02:48, 2.26it/s]
Power Factorization: 24%	120/500 [00:58<02:49, 2.25it/s]
Power Factorization: 24%	121/500 [00:59<02:51, 2.21it/s]
Power Factorization: 24%	122/500 [00:59<02:51, 2.20it/s]
Power Factorization: 25%	123/500 [01:00<02:48, 2.23it/s]
Power Factorization: 25%	124/500 [01:00<02:47, 2.25it/s]
Power Factorization: 25%	125/500 [01:00<02:45, 2.27it/s]

Power Factorization: 25%	126/500 [01:01<02:45, 2.27it/s]
Power Factorization: 25%	127/500 [01:01<02:50, 2.19it/s]
Power Factorization: 26%	128/500 [01:02<02:52, 2.16it/s]
Power Factorization: 26%	129/500 [01:02<02:48, 2.20it/s]
Power Factorization: 26%	130/500 [01:03<02:46, 2.22it/s]
Power Factorization: 26%	131/500 [01:03<02:48, 2.19it/s]
Power Factorization: 26%	132/500 [01:04<02:44, 2.23it/s]
Power Factorization: 27%	133/500 [01:04<02:42, 2.26it/s]
Power Factorization: 27%	134/500 [01:05<02:47, 2.19it/s]
Power Factorization: 27%	135/500 [01:05<02:47, 2.19it/s]
Power Factorization: 27%	136/500 [01:05<02:46, 2.19it/s]
Power Factorization: 27%	137/500 [01:06<02:45, 2.19it/s]
Power Factorization: 28%	138/500 [01:06<02:45, 2.19it/s]
Power Factorization: 28%	139/500 [01:07<02:45, 2.18it/s]
Power Factorization: 28%	140/500 [01:07<02:45, 2.18it/s]
Power Factorization: 28%	141/500 [01:08<02:45, 2.17it/s]
Power Factorization: 28%	142/500 [01:08<02:42, 2.21it/s]
Power Factorization: 29%	143/500 [01:09<02:41, 2.21it/s]
Power Factorization: 29%	144/500 [01:09<02:40, 2.22it/s]
Power Factorization: 29%	145/500 [01:10<02:38, 2.24it/s]
Power Factorization: 29%	146/500 [01:10<02:37, 2.24it/s]
Power Factorization: 29%	147/500 [01:10<02:35, 2.27it/s]
Power Factorization: 30%	148/500 [01:11<02:36, 2.26it/s]
Power Factorization: 30%	149/500 [01:11<02:35, 2.26it/s]

Power Factorization: 30%	150/500 [01:12<02:35, 2.25it/s]
Power Factorization: 30%	151/500 [01:12<02:39, 2.19it/s]
Power Factorization: 30%	152/500 [01:13<02:36, 2.23it/s]
Power Factorization: 31%	153/500 [01:13<02:37, 2.21it/s]
Power Factorization: 31%	154/500 [01:14<02:38, 2.18it/s]
Power Factorization: 31%	155/500 [01:14<02:35, 2.22it/s]
Power Factorization: 31%	156/500 [01:14<02:38, 2.17it/s]
Power Factorization: 31%	157/500 [01:15<02:43, 2.10it/s]
Power Factorization: 32%	158/500 [01:15<02:37, 2.17it/s]
Power Factorization: 32%	159/500 [01:21<11:17, 1.99s/it]
Power Factorization: 32%	160/500 [01:22<09:00, 1.59s/it]
Power Factorization: 32%	161/500 [01:22<07:17, 1.29s/it]
Power Factorization: 32%	162/500 [01:23<07:05, 1.26s/it]
Power Factorization: 33%	163/500 [01:24<05:45, 1.03s/it]
Power Factorization: 33%	164/500 [01:24<04:51, 1.15it/s]
Power Factorization: 33%	165/500 [01:25<04:57, 1.13it/s]
Power Factorization: 33%	166/500 [01:26<04:18, 1.29it/s]
Power Factorization: 33%	167/500 [01:26<03:44, 1.48it/s]
Power Factorization: 34%	168/500 [01:27<03:20, 1.66it/s]
Power Factorization: 34%	169/500 [01:27<03:02, 1.81it/s]
Power Factorization: 34%	170/500 [01:28<02:52, 1.92it/s]
Power Factorization: 34%	171/500 [01:28<02:44, 2.00it/s]
Power Factorization: 34%	172/500 [01:28<02:39, 2.06it/s]
Power Factorization: 35%	173/500 [01:29<02:35, 2.10it/s]

Power Factorization: 35%	174/500 [01:29<02:31, 2.15it/s]
Power Factorization: 35%	175/500 [01:30<02:31, 2.14it/s]
Power Factorization: 35%	176/500 [01:30<02:40, 2.02it/s]
Power Factorization: 35%	177/500 [01:31<02:34, 2.09it/s]
Power Factorization: 36%	178/500 [01:31<02:34, 2.09it/s]
Power Factorization: 36%	179/500 [01:32<02:29, 2.15it/s]
Power Factorization: 36%	180/500 [01:32<02:25, 2.20it/s]
Power Factorization: 36%	181/500 [01:33<02:25, 2.20it/s]
Power Factorization: 36%	182/500 [01:33<02:20, 2.26it/s]
Power Factorization: 37%	183/500 [01:34<02:19, 2.27it/s]
Power Factorization: 37%	184/500 [01:34<02:20, 2.24it/s]
Power Factorization: 37%	185/500 [01:34<02:23, 2.20it/s]
Power Factorization: 37%	186/500 [01:35<02:21, 2.21it/s]
Power Factorization: 37%	187/500 [01:36<02:36, 2.00it/s]
Power Factorization: 38%	188/500 [01:36<02:30, 2.07it/s]
Power Factorization: 38%	189/500 [01:36<02:27, 2.11it/s]
Power Factorization: 38%	190/500 [01:37<02:26, 2.12it/s]
Power Factorization: 38%	191/500 [01:37<02:24, 2.13it/s]
Power Factorization: 38%	192/500 [01:38<02:20, 2.19it/s]
Power Factorization: 39%	193/500 [01:38<02:18, 2.21it/s]
Power Factorization: 39%	194/500 [01:39<02:17, 2.22it/s]
Power Factorization: 39%	195/500 [01:39<02:15, 2.26it/s]
Power Factorization: 39%	196/500 [01:40<02:15, 2.24it/s]
Power Factorization: 39%	197/500 [01:40<02:15, 2.24it/s]

Power Factorization: 40%	198/500 [01:40<02:15,	2.22it/s]
Power Factorization: 40%	199/500 [01:41<02:19,	2.15it/s]
Power Factorization: 40%	200/500 [01:41<02:23,	2.10it/s]
Power Factorization: 40%	201/500 [01:42<02:18,	2.15it/s]
Power Factorization: 40%	202/500 [01:42<02:16,	2.19it/s]
Power Factorization: 41%	203/500 [01:43<02:13,	2.22it/s]
Power Factorization: 41%	204/500 [01:43<02:11,	2.25it/s]
Power Factorization: 41%	205/500 [01:44<02:12,	2.23it/s]
Power Factorization: 41%	206/500 [01:44<02:09,	2.27it/s]
Power Factorization: 41%	207/500 [01:44<02:09,	2.27it/s]
Power Factorization: 42%	208/500 [01:45<02:11,	2.22it/s]
Power Factorization: 42%	209/500 [01:45<02:12,	2.20it/s]
Power Factorization: 42%	210/500 [01:46<02:28,	1.96it/s]
Power Factorization: 42%	211/500 [01:47<02:25,	1.99it/s]
Power Factorization: 42%	212/500 [01:47<02:18,	2.09it/s]
Power Factorization: 43%	213/500 [01:47<02:15,	2.11it/s]
Power Factorization: 43%	214/500 [01:48<02:31,	1.89it/s]
Power Factorization: 43%	215/500 [01:49<02:22,	2.00it/s]
Power Factorization: 43%	216/500 [01:49<02:20,	2.02it/s]
Power Factorization: 43%	217/500 [01:50<02:21,	2.00it/s]
Power Factorization: 44%	218/500 [01:50<02:13,	2.12it/s]
Power Factorization: 44%	219/500 [01:50<02:13,	2.11it/s]
Power Factorization: 44%	220/500 [01:51<02:14,	2.09it/s]
Power Factorization: 44%	221/500 [01:51<02:08,	2.17it/s]

Power Factorization: 44%	222/500 [01:52<02:04, 2.24it/s]
Power Factorization: 45%	223/500 [01:52<02:07, 2.17it/s]
Power Factorization: 45%	224/500 [01:53<02:05, 2.20it/s]
Power Factorization: 45%	225/500 [01:53<02:09, 2.13it/s]
Power Factorization: 45%	226/500 [01:54<02:05, 2.18it/s]
Power Factorization: 45%	227/500 [01:54<02:04, 2.20it/s]
Power Factorization: 46%	228/500 [01:54<02:00, 2.25it/s]
Power Factorization: 46%	229/500 [01:55<01:59, 2.27it/s]
Power Factorization: 46%	230/500 [01:55<01:58, 2.28it/s]
Power Factorization: 46%	231/500 [01:56<01:58, 2.27it/s]
Power Factorization: 46%	232/500 [01:56<01:55, 2.31it/s]
Power Factorization: 47%	233/500 [01:57<01:56, 2.29it/s]
Power Factorization: 47%	234/500 [01:57<01:54, 2.33it/s]
Power Factorization: 47%	235/500 [01:57<01:54, 2.32it/s]
Power Factorization: 47%	236/500 [01:58<01:54, 2.31it/s]
Power Factorization: 47%	237/500 [01:58<01:57, 2.24it/s]
Power Factorization: 48%	238/500 [01:59<01:54, 2.29it/s]
Power Factorization: 48%	239/500 [01:59<01:54, 2.27it/s]
Power Factorization: 48%	240/500 [02:00<01:53, 2.30it/s]
Power Factorization: 48%	241/500 [02:00<01:50, 2.35it/s]
Power Factorization: 48%	242/500 [02:01<01:48, 2.38it/s]
Power Factorization: 49%	243/500 [02:01<01:48, 2.37it/s]
Power Factorization: 49%	244/500 [02:01<01:48, 2.36it/s]
Power Factorization: 49%	245/500 [02:02<01:48, 2.36it/s]

Power Factorization: 49%	246/500 [02:02<01:45, 2.40it/s]
Power Factorization: 49%	247/500 [02:03<01:44, 2.42it/s]
Power Factorization: 50%	248/500 [02:03<01:45, 2.38it/s]
Power Factorization: 50%	249/500 [02:03<01:43, 2.43it/s]
Power Factorization: 50%	250/500 [02:04<01:48, 2.30it/s]
Power Factorization: 50%	251/500 [02:04<01:46, 2.35it/s]
Power Factorization: 50%	252/500 [02:05<01:44, 2.37it/s]
Power Factorization: 51%	253/500 [02:05<01:44, 2.35it/s]
Power Factorization: 51%	254/500 [02:06<01:42, 2.41it/s]
Power Factorization: 51%	255/500 [02:06<01:40, 2.43it/s]
Power Factorization: 51%	256/500 [02:06<01:39, 2.45it/s]
Power Factorization: 51%	257/500 [02:07<01:38, 2.46it/s]
Power Factorization: 52%	258/500 [02:07<01:39, 2.43it/s]
Power Factorization: 52%	259/500 [02:08<01:39, 2.41it/s]
Power Factorization: 52%	260/500 [02:08<01:40, 2.40it/s]
Power Factorization: 52%	261/500 [02:08<01:41, 2.36it/s]
Power Factorization: 52%	262/500 [02:09<01:46, 2.23it/s]
Power Factorization: 53%	263/500 [02:09<01:45, 2.25it/s]
Power Factorization: 53%	264/500 [02:10<01:43, 2.27it/s]
Power Factorization: 53%	265/500 [02:10<01:41, 2.32it/s]
Power Factorization: 53%	266/500 [02:11<01:38, 2.38it/s]
Power Factorization: 53%	267/500 [02:11<01:35, 2.44it/s]
Power Factorization: 54%	268/500 [02:11<01:35, 2.44it/s]
Power Factorization: 54%	269/500 [02:12<01:37, 2.37it/s]

Power Factorization: 54%	270/500 [02:12<01:35, 2.42it/s]
Power Factorization: 54%	271/500 [02:13<01:34, 2.43it/s]
Power Factorization: 54%	272/500 [02:13<01:32, 2.48it/s]
Power Factorization: 55%	273/500 [02:13<01:31, 2.47it/s]
Power Factorization: 55%	274/500 [02:14<01:31, 2.48it/s]
Power Factorization: 55%	275/500 [02:14<01:39, 2.25it/s]
Power Factorization: 55%	276/500 [02:15<01:36, 2.32it/s]
Power Factorization: 55%	277/500 [02:15<01:34, 2.37it/s]
Power Factorization: 56%	278/500 [02:16<01:31, 2.42it/s]
Power Factorization: 56%	279/500 [02:16<01:29, 2.47it/s]
Power Factorization: 56%	280/500 [02:16<01:30, 2.43it/s]
Power Factorization: 56%	281/500 [02:17<01:29, 2.46it/s]
Power Factorization: 56%	282/500 [02:17<01:31, 2.38it/s]
Power Factorization: 57%	283/500 [02:18<01:29, 2.42it/s]
Power Factorization: 57%	284/500 [02:18<01:28, 2.43it/s]
Power Factorization: 57%	285/500 [02:18<01:27, 2.46it/s]
Power Factorization: 57%	286/500 [02:19<01:27, 2.44it/s]
Power Factorization: 57%	287/500 [02:19<01:35, 2.24it/s]
Power Factorization: 58%	288/500 [02:20<01:32, 2.29it/s]
Power Factorization: 58%	289/500 [02:20<01:28, 2.38it/s]
Power Factorization: 58%	290/500 [02:21<01:26, 2.42it/s]
Power Factorization: 58%	291/500 [02:21<01:25, 2.44it/s]
Power Factorization: 58%	292/500 [02:21<01:24, 2.47it/s]
Power Factorization: 59%	293/500 [02:22<01:24, 2.44it/s]

Power Factorization: 59%	294/500 [02:22<01:24, 2.43it/s]
Power Factorization: 59%	295/500 [02:23<01:22, 2.47it/s]
Power Factorization: 59%	296/500 [02:23<01:22, 2.47it/s]
Power Factorization: 59%	297/500 [02:23<01:22, 2.45it/s]
Power Factorization: 60%	298/500 [02:24<01:21, 2.48it/s]
Power Factorization: 60%	299/500 [02:24<01:20, 2.50it/s]
Power Factorization: 60%	300/500 [02:25<01:21, 2.45it/s]
Power Factorization: 60%	301/500 [02:25<01:19, 2.49it/s]
Power Factorization: 60%	302/500 [02:25<01:18, 2.53it/s]
Power Factorization: 61%	303/500 [02:26<01:16, 2.57it/s]
Power Factorization: 61%	304/500 [02:26<01:16, 2.57it/s]
Power Factorization: 61%	305/500 [02:27<01:15, 2.58it/s]
Power Factorization: 61%	306/500 [02:27<01:18, 2.47it/s]
Power Factorization: 61%	307/500 [02:27<01:20, 2.39it/s]
Power Factorization: 62%	308/500 [02:28<01:19, 2.41it/s]
Power Factorization: 62%	309/500 [02:28<01:18, 2.44it/s]
Power Factorization: 62%	310/500 [02:29<01:19, 2.39it/s]
Power Factorization: 62%	311/500 [02:29<01:18, 2.42it/s]
Power Factorization: 62%	312/500 [02:30<01:16, 2.45it/s]
Power Factorization: 63%	313/500 [02:30<01:16, 2.43it/s]
Power Factorization: 63%	314/500 [02:30<01:16, 2.44it/s]
Power Factorization: 63%	315/500 [02:31<01:20, 2.31it/s]
Power Factorization: 63%	316/500 [02:31<01:24, 2.19it/s]
Power Factorization: 63%	317/500 [02:32<01:24, 2.17it/s]

Power Factorization: 64%	318/500 [02:32<01:24, 2.14it/s]
Power Factorization: 64%	319/500 [02:33<01:24, 2.15it/s]
Power Factorization: 64%	320/500 [02:33<01:23, 2.17it/s]
Power Factorization: 64%	321/500 [02:34<01:23, 2.15it/s]
Power Factorization: 64%	322/500 [02:34<01:21, 2.18it/s]
Power Factorization: 65%	323/500 [02:35<01:18, 2.24it/s]
Power Factorization: 65%	324/500 [02:35<01:15, 2.32it/s]
Power Factorization: 65%	325/500 [02:35<01:17, 2.26it/s]
Power Factorization: 65%	326/500 [02:36<01:15, 2.32it/s]
Power Factorization: 65%	327/500 [02:36<01:12, 2.38it/s]
Power Factorization: 66%	328/500 [02:37<01:11, 2.40it/s]
Power Factorization: 66%	329/500 [02:37<01:09, 2.44it/s]
Power Factorization: 66%	330/500 [02:37<01:09, 2.43it/s]
Power Factorization: 66%	331/500 [02:38<01:08, 2.45it/s]
Power Factorization: 66%	332/500 [02:38<01:08, 2.46it/s]
Power Factorization: 67%	333/500 [02:39<01:06, 2.50it/s]
Power Factorization: 67%	334/500 [02:39<01:06, 2.51it/s]
Power Factorization: 67%	335/500 [02:39<01:05, 2.52it/s]
Power Factorization: 67%	336/500 [02:40<01:04, 2.53it/s]
Power Factorization: 67%	337/500 [02:40<01:05, 2.47it/s]
Power Factorization: 68%	338/500 [02:41<01:06, 2.43it/s]
Power Factorization: 68%	339/500 [02:41<01:06, 2.43it/s]
Power Factorization: 68%	340/500 [02:42<01:07, 2.36it/s]
Power Factorization: 68%	341/500 [02:42<01:06, 2.39it/s]

Power Factorization: 68%	342/500 [02:42<01:04, 2.46it/s]
Power Factorization: 69%	343/500 [02:43<01:04, 2.45it/s]
Power Factorization: 69%	344/500 [02:43<01:04, 2.41it/s]
Power Factorization: 69%	345/500 [02:44<01:04, 2.42it/s]
Power Factorization: 69%	346/500 [02:44<01:01, 2.49it/s]
Power Factorization: 69%	347/500 [02:44<01:01, 2.50it/s]
Power Factorization: 70%	348/500 [02:45<01:00, 2.51it/s]
Power Factorization: 70%	349/500 [02:45<00:59, 2.52it/s]
Power Factorization: 70%	350/500 [02:46<01:00, 2.48it/s]
Power Factorization: 70%	351/500 [02:46<01:00, 2.44it/s]
Power Factorization: 70%	352/500 [02:46<01:00, 2.46it/s]
Power Factorization: 71%	353/500 [02:47<01:00, 2.42it/s]
Power Factorization: 71%	354/500 [02:47<01:00, 2.42it/s]
Power Factorization: 71%	355/500 [02:48<00:58, 2.47it/s]
Power Factorization: 71%	356/500 [02:48<01:00, 2.40it/s]
Power Factorization: 71%	357/500 [02:48<01:00, 2.37it/s]
Power Factorization: 72%	358/500 [02:49<00:58, 2.42it/s]
Power Factorization: 72%	359/500 [02:49<00:57, 2.47it/s]
Power Factorization: 72%	360/500 [02:50<00:57, 2.43it/s]
Power Factorization: 72%	361/500 [02:50<00:56, 2.47it/s]
Power Factorization: 72%	362/500 [02:50<00:55, 2.50it/s]
Power Factorization: 73%	363/500 [02:51<01:00, 2.26it/s]
Power Factorization: 73%	364/500 [02:51<00:59, 2.30it/s]
Power Factorization: 73%	365/500 [02:52<00:57, 2.33it/s]

Power Factorization: 73%	366/500 [02:52<00:55, 2.39it/s]
Power Factorization: 73%	367/500 [02:53<00:55, 2.40it/s]
Power Factorization: 74%	368/500 [02:53<00:54, 2.41it/s]
Power Factorization: 74%	369/500 [02:53<00:53, 2.43it/s]
Power Factorization: 74%	370/500 [02:54<00:56, 2.28it/s]
Power Factorization: 74%	371/500 [02:54<00:55, 2.32it/s]
Power Factorization: 74%	372/500 [02:55<00:53, 2.37it/s]
Power Factorization: 75%	373/500 [02:55<00:52, 2.44it/s]
Power Factorization: 75%	374/500 [02:56<00:51, 2.45it/s]
Power Factorization: 75%	375/500 [02:56<00:51, 2.42it/s]
Power Factorization: 75%	376/500 [02:56<00:52, 2.35it/s]
Power Factorization: 75%	377/500 [02:57<00:50, 2.42it/s]
Power Factorization: 76%	378/500 [02:57<00:51, 2.38it/s]
Power Factorization: 76%	379/500 [02:58<00:50, 2.40it/s]
Power Factorization: 76%	380/500 [02:58<00:50, 2.36it/s]
Power Factorization: 76%	381/500 [02:59<00:51, 2.29it/s]
Power Factorization: 76%	382/500 [02:59<00:50, 2.33it/s]
Power Factorization: 77%	383/500 [02:59<00:52, 2.21it/s]
Power Factorization: 77%	384/500 [03:00<00:52, 2.23it/s]
Power Factorization: 77%	385/500 [03:00<00:50, 2.26it/s]
Power Factorization: 77%	386/500 [03:01<00:49, 2.30it/s]
Power Factorization: 77%	387/500 [03:01<00:47, 2.39it/s]
Power Factorization: 78%	388/500 [03:02<00:50, 2.21it/s]
Power Factorization: 78%	389/500 [03:02<00:47, 2.31it/s]

Power Factorization: 78%	390/500 [03:02<00:46,	2.36it/s]
Power Factorization: 78%	391/500 [03:03<00:44,	2.44it/s]
Power Factorization: 78%	392/500 [03:03<00:44,	2.44it/s]
Power Factorization: 79%	393/500 [03:04<00:43,	2.45it/s]
Power Factorization: 79%	394/500 [03:04<00:48,	2.19it/s]
Power Factorization: 79%	395/500 [03:05<00:46,	2.27it/s]
Power Factorization: 79%	396/500 [03:05<00:44,	2.32it/s]
Power Factorization: 79%	397/500 [03:05<00:43,	2.39it/s]
Power Factorization: 80%	398/500 [03:06<00:41,	2.44it/s]
Power Factorization: 80%	399/500 [03:06<00:41,	2.43it/s]
Power Factorization: 80%	400/500 [03:07<00:43,	2.28it/s]
Power Factorization: 80%	401/500 [03:07<00:42,	2.33it/s]
Power Factorization: 80%	402/500 [03:08<00:41,	2.35it/s]
Power Factorization: 81%	403/500 [03:08<00:42,	2.28it/s]
Power Factorization: 81%	404/500 [03:08<00:40,	2.37it/s]
Power Factorization: 81%	405/500 [03:09<00:39,	2.41it/s]
Power Factorization: 81%	406/500 [03:09<00:38,	2.47it/s]
Power Factorization: 81%	407/500 [03:10<00:38,	2.42it/s]
Power Factorization: 82%	408/500 [03:10<00:37,	2.45it/s]
Power Factorization: 82%	409/500 [03:10<00:36,	2.50it/s]
Power Factorization: 82%	410/500 [03:11<00:35,	2.52it/s]
Power Factorization: 82%	411/500 [03:11<00:35,	2.54it/s]
Power Factorization: 82%	412/500 [03:12<00:34,	2.53it/s]
Power Factorization: 83%	413/500 [03:12<00:36,	2.38it/s]

Power Factorization: 83%	414/500 [03:12<00:35,	2.44it/s]
Power Factorization: 83%	415/500 [03:13<00:35,	2.39it/s]
Power Factorization: 83%	416/500 [03:13<00:34,	2.46it/s]
Power Factorization: 83%	417/500 [03:14<00:35,	2.37it/s]
Power Factorization: 84%	418/500 [03:14<00:34,	2.36it/s]
Power Factorization: 84%	419/500 [03:14<00:33,	2.43it/s]
Power Factorization: 84%	420/500 [03:15<00:32,	2.48it/s]
Power Factorization: 84%	421/500 [03:15<00:31,	2.49it/s]
Power Factorization: 84%	422/500 [03:16<00:31,	2.50it/s]
Power Factorization: 85%	423/500 [03:16<00:30,	2.52it/s]
Power Factorization: 85%	424/500 [03:16<00:29,	2.53it/s]
Power Factorization: 85%	425/500 [03:17<00:29,	2.53it/s]
Power Factorization: 85%	426/500 [03:17<00:30,	2.43it/s]
Power Factorization: 85%	427/500 [03:18<00:29,	2.50it/s]
Power Factorization: 86%	428/500 [03:18<00:28,	2.53it/s]
Power Factorization: 86%	429/500 [03:18<00:27,	2.58it/s]
Power Factorization: 86%	430/500 [03:19<00:26,	2.61it/s]
Power Factorization: 86%	431/500 [03:19<00:26,	2.61it/s]
Power Factorization: 86%	432/500 [03:20<00:27,	2.50it/s]
Power Factorization: 87%	433/500 [03:20<00:26,	2.52it/s]
Power Factorization: 87%	434/500 [03:20<00:25,	2.56it/s]
Power Factorization: 87%	435/500 [03:21<00:25,	2.53it/s]
Power Factorization: 87%	436/500 [03:21<00:25,	2.53it/s]
Power Factorization: 87%	437/500 [03:22<00:25,	2.47it/s]

Power Factorization: 88%	438/500 [03:22<00:24,	2.51it/s]
Power Factorization: 88%	439/500 [03:22<00:23,	2.55it/s]
Power Factorization: 88%	440/500 [03:23<00:24,	2.45it/s]
Power Factorization: 88%	441/500 [03:23<00:24,	2.41it/s]
Power Factorization: 88%	442/500 [03:24<00:23,	2.45it/s]
Power Factorization: 89%	443/500 [03:24<00:22,	2.49it/s]
Power Factorization: 89%	444/500 [03:24<00:22,	2.52it/s]
Power Factorization: 89%	445/500 [03:25<00:21,	2.51it/s]
Power Factorization: 89%	446/500 [03:25<00:21,	2.46it/s]
Power Factorization: 89%	447/500 [03:26<00:21,	2.47it/s]
Power Factorization: 90%	448/500 [03:26<00:21,	2.47it/s]
Power Factorization: 90%	449/500 [03:26<00:20,	2.53it/s]
Power Factorization: 90%	450/500 [03:27<00:19,	2.51it/s]
Power Factorization: 90%	451/500 [03:27<00:19,	2.46it/s]
Power Factorization: 90%	452/500 [03:28<00:21,	2.26it/s]
Power Factorization: 91%	453/500 [03:28<00:20,	2.27it/s]
Power Factorization: 91%	454/500 [03:29<00:20,	2.27it/s]
Power Factorization: 91%	455/500 [03:29<00:19,	2.32it/s]
Power Factorization: 91%	456/500 [03:29<00:18,	2.39it/s]
Power Factorization: 91%	457/500 [03:30<00:17,	2.43it/s]
Power Factorization: 92%	458/500 [03:30<00:16,	2.49it/s]
Power Factorization: 92%	459/500 [03:31<00:17,	2.41it/s]
Power Factorization: 92%	460/500 [03:31<00:16,	2.42it/s]
Power Factorization: 92%	461/500 [03:32<00:16,	2.40it/s]

Power Factorization: 92%	462/500 [03:32<00:15, 2.44it/s]
Power Factorization: 93%	463/500 [03:32<00:15, 2.46it/s]
Power Factorization: 93%	464/500 [03:33<00:14, 2.48it/s]
Power Factorization: 93%	465/500 [03:33<00:14, 2.42it/s]
Power Factorization: 93%	466/500 [03:34<00:14, 2.38it/s]
Power Factorization: 93%	467/500 [03:34<00:13, 2.42it/s]
Power Factorization: 94%	468/500 [03:34<00:13, 2.46it/s]
Power Factorization: 94%	469/500 [03:35<00:12, 2.45it/s]
Power Factorization: 94%	470/500 [03:35<00:12, 2.49it/s]
Power Factorization: 94%	471/500 [03:36<00:11, 2.46it/s]
Power Factorization: 94%	472/500 [03:36<00:11, 2.50it/s]
Power Factorization: 95%	473/500 [03:36<00:10, 2.50it/s]
Power Factorization: 95%	474/500 [03:37<00:10, 2.53it/s]
Power Factorization: 95%	475/500 [03:37<00:10, 2.48it/s]
Power Factorization: 95%	476/500 [03:38<00:09, 2.44it/s]
Power Factorization: 95%	477/500 [03:38<00:09, 2.44it/s]
Power Factorization: 96%	478/500 [03:38<00:09, 2.32it/s]
Power Factorization: 96%	479/500 [03:39<00:08, 2.40it/s]
Power Factorization: 96%	480/500 [03:39<00:08, 2.43it/s]
Power Factorization: 96%	481/500 [03:40<00:07, 2.38it/s]
Power Factorization: 96%	482/500 [03:40<00:07, 2.43it/s]
Power Factorization: 97%	483/500 [03:41<00:07, 2.42it/s]
Power Factorization: 97%	484/500 [03:41<00:06, 2.39it/s]
Power Factorization: 97%	485/500 [03:41<00:06, 2.41it/s]

Power Factorization: 97%	486/500 [03:42<00:05, 2.39it/s]
Power Factorization: 97%	487/500 [03:42<00:05, 2.38it/s]
Power Factorization: 98%	488/500 [03:43<00:05, 2.37it/s]
Power Factorization: 98%	489/500 [03:43<00:04, 2.42it/s]
Power Factorization: 98%	490/500 [03:44<00:04, 2.29it/s]
Power Factorization: 98%	491/500 [03:44<00:03, 2.35it/s]
Power Factorization: 98%	492/500 [03:44<00:03, 2.42it/s]
Power Factorization: 99%	493/500 [03:45<00:02, 2.44it/s]
Power Factorization: 99%	494/500 [03:45<00:02, 2.44it/s]
Power Factorization: 99%	495/500 [03:46<00:02, 2.44it/s]
Power Factorization: 99%	496/500 [03:46<00:01, 2.47it/s]
Power Factorization: 99%	497/500 [03:46<00:01, 2.42it/s]
Power Factorization: 100%	498/500 [03:47<00:00, 2.46it/s]
Power Factorization: 100%	499/500 [03:47<00:00, 2.48it/s]
Power Factorization: 100%	500/500 [03:48<00:00, 2.19it/s]
Cross Validation: 80%	4/5 [14:36<03:41, 221.71s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:29, 2.38it/s]
Power Factorization: 0%	2/500 [00:00<03:30, 2.37it/s]
Power Factorization: 1%	3/500 [00:01<03:30, 2.36it/s]
Power Factorization: 1%	4/500 [00:01<03:22, 2.45it/s]
Power Factorization: 1%	5/500 [00:02<03:23, 2.43it/s]
Power Factorization: 1%	6/500 [00:02<03:18, 2.49it/s]
Power Factorization: 1%	7/500 [00:02<03:20, 2.46it/s]

Power Factorization:	2%	8/500 [00:03<03:21, 2.44it/s]
Power Factorization:	2%	9/500 [00:03<03:17, 2.49it/s]
Power Factorization:	2%	10/500 [00:04<03:14, 2.52it/s]
Power Factorization:	2%	11/500 [00:04<03:18, 2.46it/s]
Power Factorization:	2%	12/500 [00:04<03:19, 2.45it/s]
Power Factorization:	3%	13/500 [00:05<03:24, 2.38it/s]
Power Factorization:	3%	14/500 [00:05<03:26, 2.35it/s]
Power Factorization:	3%	15/500 [00:06<03:26, 2.35it/s]
Power Factorization:	3%	16/500 [00:06<03:37, 2.23it/s]
Power Factorization:	3%	17/500 [00:07<03:29, 2.30it/s]
Power Factorization:	4%	18/500 [00:07<03:23, 2.37it/s]
Power Factorization:	4%	19/500 [00:07<03:20, 2.40it/s]
Power Factorization:	4%	20/500 [00:08<03:16, 2.45it/s]
Power Factorization:	4%	21/500 [00:08<03:15, 2.45it/s]
Power Factorization:	4%	22/500 [00:09<03:10, 2.50it/s]
Power Factorization:	5%	23/500 [00:09<03:05, 2.57it/s]
Power Factorization:	5%	24/500 [00:09<03:08, 2.52it/s]
Power Factorization:	5%	25/500 [00:10<03:28, 2.28it/s]
Power Factorization:	5%	26/500 [00:10<03:28, 2.27it/s]
Power Factorization:	5%	27/500 [00:11<03:21, 2.34it/s]
Power Factorization:	6%	28/500 [00:11<03:31, 2.24it/s]
Power Factorization:	6%	29/500 [00:12<03:27, 2.27it/s]
Power Factorization:	6%	30/500 [00:12<03:25, 2.29it/s]
Power Factorization:	6%	31/500 [00:12<03:20, 2.33it/s]

Power Factorization:	6%	32/500	[00:13<03:19, 2.34it/s]
Power Factorization:	7%	33/500	[00:13<03:15, 2.39it/s]
Power Factorization:	7%	34/500	[00:14<03:09, 2.45it/s]
Power Factorization:	7%	35/500	[00:14<03:06, 2.50it/s]
Power Factorization:	7%	36/500	[00:15<03:08, 2.47it/s]
Power Factorization:	7%	37/500	[00:15<03:06, 2.48it/s]
Power Factorization:	8%	38/500	[00:15<03:04, 2.51it/s]
Power Factorization:	8%	39/500	[00:16<03:00, 2.55it/s]
Power Factorization:	8%	40/500	[00:16<03:00, 2.55it/s]
Power Factorization:	8%	41/500	[00:16<03:06, 2.46it/s]
Power Factorization:	8%	42/500	[00:17<03:12, 2.37it/s]
Power Factorization:	9%	43/500	[00:17<03:08, 2.42it/s]
Power Factorization:	9%	44/500	[00:18<03:06, 2.45it/s]
Power Factorization:	9%	45/500	[00:18<03:04, 2.47it/s]
Power Factorization:	9%	46/500	[00:19<03:02, 2.48it/s]
Power Factorization:	9%	47/500	[00:19<03:03, 2.47it/s]
Power Factorization:	10%	48/500	[00:19<03:01, 2.50it/s]
Power Factorization:	10%	49/500	[00:20<02:58, 2.52it/s]
Power Factorization:	10%	50/500	[00:20<03:03, 2.45it/s]
Power Factorization:	10%	51/500	[00:21<03:00, 2.49it/s]
Power Factorization:	10%	52/500	[00:21<03:00, 2.49it/s]
Power Factorization:	11%	53/500	[00:21<02:57, 2.52it/s]
Power Factorization:	11%	54/500	[00:22<03:04, 2.42it/s]
Power Factorization:	11%	55/500	[00:22<03:07, 2.38it/s]

Power Factorization: 11%	56/500 [00:23<03:10, 2.34it/s]
Power Factorization: 11%	57/500 [00:23<03:03, 2.41it/s]
Power Factorization: 12%	58/500 [00:23<02:58, 2.47it/s]
Power Factorization: 12%	59/500 [00:24<02:56, 2.50it/s]
Power Factorization: 12%	60/500 [00:24<02:54, 2.52it/s]
Power Factorization: 12%	61/500 [00:25<03:04, 2.37it/s]
Power Factorization: 12%	62/500 [00:25<03:00, 2.43it/s]
Power Factorization: 13%	63/500 [00:25<02:55, 2.49it/s]
Power Factorization: 13%	64/500 [00:26<02:53, 2.51it/s]
Power Factorization: 13%	65/500 [00:26<02:52, 2.52it/s]
Power Factorization: 13%	66/500 [00:27<03:07, 2.31it/s]
Power Factorization: 13%	67/500 [00:27<03:03, 2.36it/s]
Power Factorization: 14%	68/500 [00:28<03:01, 2.38it/s]
Power Factorization: 14%	69/500 [00:28<02:56, 2.45it/s]
Power Factorization: 14%	70/500 [00:28<02:53, 2.48it/s]
Power Factorization: 14%	71/500 [00:29<02:53, 2.47it/s]
Power Factorization: 14%	72/500 [00:29<02:50, 2.51it/s]
Power Factorization: 15%	73/500 [00:30<02:54, 2.45it/s]
Power Factorization: 15%	74/500 [00:30<02:54, 2.43it/s]
Power Factorization: 15%	75/500 [00:30<02:53, 2.44it/s]
Power Factorization: 15%	76/500 [00:31<02:51, 2.47it/s]
Power Factorization: 15%	77/500 [00:31<02:51, 2.47it/s]
Power Factorization: 16%	78/500 [00:32<02:47, 2.52it/s]
Power Factorization: 16%	79/500 [00:32<03:00, 2.33it/s]

Power Factorization: 16%	80/500 [00:32<02:55, 2.40it/s]
Power Factorization: 16%	81/500 [00:33<02:51, 2.45it/s]
Power Factorization: 16%	82/500 [00:33<02:48, 2.48it/s]
Power Factorization: 17%	83/500 [00:34<02:46, 2.50it/s]
Power Factorization: 17%	84/500 [00:34<02:44, 2.52it/s]
Power Factorization: 17%	85/500 [00:34<02:48, 2.46it/s]
Power Factorization: 17%	86/500 [00:35<02:47, 2.47it/s]
Power Factorization: 17%	87/500 [00:35<02:44, 2.51it/s]
Power Factorization: 18%	88/500 [00:36<02:44, 2.51it/s]
Power Factorization: 18%	89/500 [00:36<02:42, 2.54it/s]
Power Factorization: 18%	90/500 [00:36<02:41, 2.54it/s]
Power Factorization: 18%	91/500 [00:37<02:38, 2.58it/s]
Power Factorization: 18%	92/500 [00:37<02:37, 2.59it/s]
Power Factorization: 19%	93/500 [00:38<02:42, 2.51it/s]
Power Factorization: 19%	94/500 [00:38<02:40, 2.53it/s]
Power Factorization: 19%	95/500 [00:38<02:39, 2.54it/s]
Power Factorization: 19%	96/500 [00:39<02:38, 2.55it/s]
Power Factorization: 19%	97/500 [00:39<02:36, 2.57it/s]
Power Factorization: 20%	98/500 [00:40<02:37, 2.56it/s]
Power Factorization: 20%	99/500 [00:40<02:36, 2.57it/s]
Power Factorization: 20%	100/500 [00:40<02:39, 2.51it/s]
Power Factorization: 20%	101/500 [00:41<02:37, 2.53it/s]
Power Factorization: 20%	102/500 [00:41<02:41, 2.47it/s]
Power Factorization: 21%	103/500 [00:42<02:38, 2.51it/s]

Power Factorization: 21%	104/500 [00:42<02:41, 2.46it/s]
Power Factorization: 21%	105/500 [00:43<03:00, 2.18it/s]
Power Factorization: 21%	106/500 [00:43<03:00, 2.19it/s]
Power Factorization: 21%	107/500 [00:43<02:58, 2.20it/s]
Power Factorization: 22%	108/500 [00:44<02:54, 2.25it/s]
Power Factorization: 22%	109/500 [00:44<02:47, 2.34it/s]
Power Factorization: 22%	110/500 [00:45<02:42, 2.41it/s]
Power Factorization: 22%	111/500 [00:45<02:39, 2.44it/s]
Power Factorization: 22%	112/500 [00:45<02:38, 2.44it/s]
Power Factorization: 23%	113/500 [00:46<02:39, 2.43it/s]
Power Factorization: 23%	114/500 [00:46<02:37, 2.46it/s]
Power Factorization: 23%	115/500 [00:47<02:33, 2.50it/s]
Power Factorization: 23%	116/500 [00:47<02:35, 2.47it/s]
Power Factorization: 23%	117/500 [00:47<02:34, 2.48it/s]
Power Factorization: 24%	118/500 [00:48<02:38, 2.41it/s]
Power Factorization: 24%	119/500 [00:48<02:36, 2.43it/s]
Power Factorization: 24%	120/500 [00:49<02:33, 2.47it/s]
Power Factorization: 24%	121/500 [00:49<02:34, 2.46it/s]
Power Factorization: 24%	122/500 [00:49<02:30, 2.51it/s]
Power Factorization: 25%	123/500 [00:50<02:30, 2.50it/s]
Power Factorization: 25%	124/500 [00:50<02:31, 2.47it/s]
Power Factorization: 25%	125/500 [00:51<02:30, 2.49it/s]
Power Factorization: 25%	126/500 [00:51<02:28, 2.53it/s]
Power Factorization: 25%	127/500 [00:52<02:32, 2.44it/s]

Power Factorization: 26%	128/500 [00:52<02:31, 2.46it/s]
Power Factorization: 26%	129/500 [00:52<02:28, 2.50it/s]
Power Factorization: 26%	130/500 [00:53<02:38, 2.34it/s]
Power Factorization: 26%	131/500 [00:53<02:39, 2.32it/s]
Power Factorization: 26%	132/500 [00:54<02:43, 2.25it/s]
Power Factorization: 27%	133/500 [00:54<02:36, 2.34it/s]
Power Factorization: 27%	134/500 [00:54<02:31, 2.41it/s]
Power Factorization: 27%	135/500 [00:55<02:30, 2.43it/s]
Power Factorization: 27%	136/500 [00:55<02:30, 2.42it/s]
Power Factorization: 27%	137/500 [00:56<02:29, 2.42it/s]
Power Factorization: 28%	138/500 [00:56<02:27, 2.45it/s]
Power Factorization: 28%	139/500 [00:57<02:24, 2.50it/s]
Power Factorization: 28%	140/500 [00:57<02:28, 2.42it/s]
Power Factorization: 28%	141/500 [00:57<02:24, 2.49it/s]
Power Factorization: 28%	142/500 [00:58<02:23, 2.49it/s]
Power Factorization: 29%	143/500 [00:58<02:30, 2.37it/s]
Power Factorization: 29%	144/500 [00:59<02:27, 2.42it/s]
Power Factorization: 29%	145/500 [00:59<02:22, 2.50it/s]
Power Factorization: 29%	146/500 [00:59<02:22, 2.48it/s]
Power Factorization: 29%	147/500 [01:00<02:19, 2.53it/s]
Power Factorization: 30%	148/500 [01:00<02:21, 2.49it/s]
Power Factorization: 30%	149/500 [01:01<02:22, 2.46it/s]
Power Factorization: 30%	150/500 [01:01<02:23, 2.44it/s]
Power Factorization: 30%	151/500 [01:01<02:27, 2.37it/s]

Power Factorization: 30%	152/500 [01:02<02:23, 2.42it/s]
Power Factorization: 31%	153/500 [01:02<02:23, 2.42it/s]
Power Factorization: 31%	154/500 [01:03<02:20, 2.47it/s]
Power Factorization: 31%	155/500 [01:03<02:21, 2.44it/s]
Power Factorization: 31%	156/500 [01:03<02:23, 2.40it/s]
Power Factorization: 31%	157/500 [01:04<02:23, 2.38it/s]
Power Factorization: 32%	158/500 [01:04<02:23, 2.38it/s]
Power Factorization: 32%	159/500 [01:05<02:18, 2.46it/s]
Power Factorization: 32%	160/500 [01:05<02:15, 2.51it/s]
Power Factorization: 32%	161/500 [01:05<02:14, 2.53it/s]
Power Factorization: 32%	162/500 [01:06<02:11, 2.57it/s]
Power Factorization: 33%	163/500 [01:06<02:12, 2.54it/s]
Power Factorization: 33%	164/500 [01:07<02:19, 2.42it/s]
Power Factorization: 33%	165/500 [01:07<02:16, 2.46it/s]
Power Factorization: 33%	166/500 [01:08<02:16, 2.45it/s]
Power Factorization: 33%	167/500 [01:08<02:13, 2.49it/s]
Power Factorization: 34%	168/500 [01:08<02:09, 2.55it/s]
Power Factorization: 34%	169/500 [01:09<02:13, 2.48it/s]
Power Factorization: 34%	170/500 [01:09<02:11, 2.52it/s]
Power Factorization: 34%	171/500 [01:10<02:12, 2.47it/s]
Power Factorization: 34%	172/500 [01:10<02:12, 2.48it/s]
Power Factorization: 35%	173/500 [01:10<02:15, 2.41it/s]
Power Factorization: 35%	174/500 [01:11<02:13, 2.44it/s]
Power Factorization: 35%	175/500 [01:11<02:10, 2.49it/s]

Power Factorization: 35%	176/500 [01:12<02:10, 2.48it/s]
Power Factorization: 35%	177/500 [01:12<02:09, 2.49it/s]
Power Factorization: 36%	178/500 [01:12<02:08, 2.50it/s]
Power Factorization: 36%	179/500 [01:13<02:09, 2.49it/s]
Power Factorization: 36%	180/500 [01:13<02:07, 2.51it/s]
Power Factorization: 36%	181/500 [01:14<02:08, 2.48it/s]
Power Factorization: 36%	182/500 [01:14<02:11, 2.41it/s]
Power Factorization: 37%	183/500 [01:14<02:07, 2.49it/s]
Power Factorization: 37%	184/500 [01:15<02:11, 2.40it/s]
Power Factorization: 37%	185/500 [01:15<02:11, 2.39it/s]
Power Factorization: 37%	186/500 [01:16<02:07, 2.47it/s]
Power Factorization: 37%	187/500 [01:16<02:06, 2.48it/s]
Power Factorization: 38%	188/500 [01:16<02:04, 2.51it/s]
Power Factorization: 38%	189/500 [01:17<02:05, 2.48it/s]
Power Factorization: 38%	190/500 [01:17<02:04, 2.50it/s]
Power Factorization: 38%	191/500 [01:18<02:04, 2.48it/s]
Power Factorization: 38%	192/500 [01:18<02:07, 2.42it/s]
Power Factorization: 39%	193/500 [01:19<02:20, 2.18it/s]
Power Factorization: 39%	194/500 [01:19<02:28, 2.06it/s]
Power Factorization: 39%	195/500 [01:20<02:27, 2.07it/s]
Power Factorization: 39%	196/500 [01:20<02:20, 2.17it/s]
Power Factorization: 39%	197/500 [01:21<02:19, 2.17it/s]
Power Factorization: 40%	198/500 [01:21<02:12, 2.27it/s]
Power Factorization: 40%	199/500 [01:21<02:10, 2.31it/s]

Power Factorization: 40%	200/500 [01:22<02:10, 2.30it/s]
Power Factorization: 40%	201/500 [01:22<02:09, 2.31it/s]
Power Factorization: 40%	202/500 [01:23<02:06, 2.36it/s]
Power Factorization: 41%	203/500 [01:23<02:03, 2.40it/s]
Power Factorization: 41%	204/500 [01:23<02:01, 2.45it/s]
Power Factorization: 41%	205/500 [01:24<02:00, 2.46it/s]
Power Factorization: 41%	206/500 [01:24<02:00, 2.45it/s]
Power Factorization: 41%	207/500 [01:25<02:03, 2.37it/s]
Power Factorization: 42%	208/500 [01:25<02:03, 2.37it/s]
Power Factorization: 42%	209/500 [01:25<02:00, 2.42it/s]
Power Factorization: 42%	210/500 [01:26<01:59, 2.44it/s]
Power Factorization: 42%	211/500 [01:26<01:59, 2.41it/s]
Power Factorization: 42%	212/500 [01:27<01:58, 2.42it/s]
Power Factorization: 43%	213/500 [01:27<02:00, 2.38it/s]
Power Factorization: 43%	214/500 [01:28<01:58, 2.41it/s]
Power Factorization: 43%	215/500 [01:28<01:57, 2.42it/s]
Power Factorization: 43%	216/500 [01:28<01:58, 2.40it/s]
Power Factorization: 43%	217/500 [01:30<03:15, 1.45it/s]
Power Factorization: 44%	218/500 [01:30<02:55, 1.60it/s]
Power Factorization: 44%	219/500 [01:31<02:37, 1.78it/s]
Power Factorization: 44%	220/500 [01:31<02:28, 1.89it/s]
Power Factorization: 44%	221/500 [01:31<02:17, 2.02it/s]
Power Factorization: 44%	222/500 [01:32<02:10, 2.13it/s]
Power Factorization: 45%	223/500 [01:32<02:06, 2.18it/s]

Power Factorization: 45%	224/500 [01:33<02:02, 2.26it/s]
Power Factorization: 45%	225/500 [01:33<01:58, 2.31it/s]
Power Factorization: 45%	226/500 [01:34<01:56, 2.35it/s]
Power Factorization: 45%	227/500 [01:34<01:56, 2.34it/s]
Power Factorization: 46%	228/500 [01:34<01:55, 2.35it/s]
Power Factorization: 46%	229/500 [01:35<01:54, 2.37it/s]
Power Factorization: 46%	230/500 [01:35<01:58, 2.28it/s]
Power Factorization: 46%	231/500 [01:36<01:56, 2.32it/s]
Power Factorization: 46%	232/500 [01:36<01:57, 2.29it/s]
Power Factorization: 47%	233/500 [01:37<01:55, 2.32it/s]
Power Factorization: 47%	234/500 [01:37<01:55, 2.31it/s]
Power Factorization: 47%	235/500 [01:37<01:56, 2.28it/s]
Power Factorization: 47%	236/500 [01:38<02:00, 2.20it/s]
Power Factorization: 47%	237/500 [01:38<01:56, 2.26it/s]
Power Factorization: 48%	238/500 [01:39<01:53, 2.31it/s]
Power Factorization: 48%	239/500 [01:39<01:54, 2.29it/s]
Power Factorization: 48%	240/500 [01:40<01:52, 2.32it/s]
Power Factorization: 48%	241/500 [01:40<01:50, 2.34it/s]
Power Factorization: 48%	242/500 [01:40<01:53, 2.28it/s]
Power Factorization: 49%	243/500 [01:41<01:50, 2.33it/s]
Power Factorization: 49%	244/500 [01:41<01:49, 2.34it/s]
Power Factorization: 49%	245/500 [01:42<01:47, 2.37it/s]
Power Factorization: 49%	246/500 [01:42<01:46, 2.38it/s]
Power Factorization: 49%	247/500 [01:43<01:45, 2.40it/s]

Power Factorization: 50%	248/500 [01:43<01:45, 2.39it/s]
Power Factorization: 50%	249/500 [01:43<01:47, 2.33it/s]
Power Factorization: 50%	250/500 [01:44<01:45, 2.37it/s]
Power Factorization: 50%	251/500 [01:44<01:46, 2.34it/s]
Power Factorization: 50%	252/500 [01:45<01:44, 2.37it/s]
Power Factorization: 51%	253/500 [01:45<01:44, 2.37it/s]
Power Factorization: 51%	254/500 [01:46<01:48, 2.26it/s]
Power Factorization: 51%	255/500 [01:46<01:46, 2.29it/s]
Power Factorization: 51%	256/500 [01:46<01:44, 2.33it/s]
Power Factorization: 51%	257/500 [01:47<01:43, 2.34it/s]
Power Factorization: 52%	258/500 [01:47<01:42, 2.35it/s]
Power Factorization: 52%	259/500 [01:48<01:40, 2.39it/s]
Power Factorization: 52%	260/500 [01:48<01:39, 2.42it/s]
Power Factorization: 52%	261/500 [01:49<01:39, 2.40it/s]
Power Factorization: 52%	262/500 [01:49<01:36, 2.46it/s]
Power Factorization: 53%	263/500 [01:49<01:39, 2.37it/s]
Power Factorization: 53%	264/500 [01:50<01:39, 2.36it/s]
Power Factorization: 53%	265/500 [01:50<01:37, 2.40it/s]
Power Factorization: 53%	266/500 [01:51<01:41, 2.30it/s]
Power Factorization: 53%	267/500 [01:51<01:40, 2.33it/s]
Power Factorization: 54%	268/500 [01:51<01:38, 2.35it/s]
Power Factorization: 54%	269/500 [01:52<01:37, 2.38it/s]
Power Factorization: 54%	270/500 [01:52<01:35, 2.41it/s]
Power Factorization: 54%	271/500 [01:53<01:37, 2.35it/s]

Power Factorization: 54%	272/500 [01:53<01:36, 2.37it/s]
Power Factorization: 55%	273/500 [01:54<01:40, 2.26it/s]
Power Factorization: 55%	274/500 [01:54<01:37, 2.32it/s]
Power Factorization: 55%	275/500 [01:54<01:36, 2.32it/s]
Power Factorization: 55%	276/500 [01:55<01:38, 2.27it/s]
Power Factorization: 55%	277/500 [01:55<01:36, 2.32it/s]
Power Factorization: 56%	278/500 [01:56<01:41, 2.19it/s]
Power Factorization: 56%	279/500 [01:56<01:38, 2.23it/s]
Power Factorization: 56%	280/500 [01:57<01:36, 2.27it/s]
Power Factorization: 56%	281/500 [01:57<01:34, 2.33it/s]
Power Factorization: 56%	282/500 [01:58<01:32, 2.35it/s]
Power Factorization: 57%	283/500 [01:58<01:31, 2.37it/s]
Power Factorization: 57%	284/500 [01:58<01:30, 2.38it/s]
Power Factorization: 57%	285/500 [01:59<01:29, 2.41it/s]
Power Factorization: 57%	286/500 [01:59<01:31, 2.34it/s]
Power Factorization: 57%	287/500 [02:00<01:31, 2.33it/s]
Power Factorization: 58%	288/500 [02:00<01:31, 2.33it/s]
Power Factorization: 58%	289/500 [02:01<01:29, 2.36it/s]
Power Factorization: 58%	290/500 [02:01<01:35, 2.21it/s]
Power Factorization: 58%	291/500 [02:01<01:33, 2.23it/s]
Power Factorization: 58%	292/500 [02:02<01:32, 2.24it/s]
Power Factorization: 59%	293/500 [02:02<01:29, 2.31it/s]
Power Factorization: 59%	294/500 [02:03<01:30, 2.27it/s]
Power Factorization: 59%	295/500 [02:03<01:28, 2.31it/s]

Power Factorization: 59%	296/500 [02:04<01:29, 2.29it/s]
Power Factorization: 59%	297/500 [02:04<01:27, 2.33it/s]
Power Factorization: 60%	298/500 [02:04<01:25, 2.35it/s]
Power Factorization: 60%	299/500 [02:05<01:25, 2.36it/s]
Power Factorization: 60%	300/500 [02:05<01:23, 2.40it/s]
Power Factorization: 60%	301/500 [02:06<01:23, 2.39it/s]
Power Factorization: 60%	302/500 [02:06<01:23, 2.36it/s]
Power Factorization: 61%	303/500 [02:07<01:24, 2.34it/s]
Power Factorization: 61%	304/500 [02:07<01:24, 2.33it/s]
Power Factorization: 61%	305/500 [02:07<01:23, 2.34it/s]
Power Factorization: 61%	306/500 [02:08<01:21, 2.38it/s]
Power Factorization: 61%	307/500 [02:08<01:23, 2.32it/s]
Power Factorization: 62%	308/500 [02:09<01:21, 2.34it/s]
Power Factorization: 62%	309/500 [02:09<01:19, 2.39it/s]
Power Factorization: 62%	310/500 [02:10<01:19, 2.40it/s]
Power Factorization: 62%	311/500 [02:10<01:17, 2.43it/s]
Power Factorization: 62%	312/500 [02:10<01:19, 2.36it/s]
Power Factorization: 63%	313/500 [02:11<01:19, 2.34it/s]
Power Factorization: 63%	314/500 [02:11<01:20, 2.30it/s]
Power Factorization: 63%	315/500 [02:12<01:24, 2.18it/s]
Power Factorization: 63%	316/500 [02:12<01:28, 2.07it/s]
Power Factorization: 63%	317/500 [02:13<01:23, 2.20it/s]
Power Factorization: 64%	318/500 [02:13<01:20, 2.27it/s]
Power Factorization: 64%	319/500 [02:14<01:17, 2.32it/s]

Power Factorization: 64%	320/500 [02:14<01:16, 2.35it/s]
Power Factorization: 64%	321/500 [02:14<01:13, 2.43it/s]
Power Factorization: 64%	322/500 [02:15<01:13, 2.43it/s]
Power Factorization: 65%	323/500 [02:15<01:11, 2.46it/s]
Power Factorization: 65%	324/500 [02:16<01:12, 2.42it/s]
Power Factorization: 65%	325/500 [02:16<01:13, 2.38it/s]
Power Factorization: 65%	326/500 [02:16<01:12, 2.40it/s]
Power Factorization: 65%	327/500 [02:17<01:15, 2.29it/s]
Power Factorization: 66%	328/500 [02:17<01:13, 2.33it/s]
Power Factorization: 66%	329/500 [02:18<01:12, 2.35it/s]
Power Factorization: 66%	330/500 [02:18<01:11, 2.37it/s]
Power Factorization: 66%	331/500 [02:19<01:09, 2.43it/s]
Power Factorization: 66%	332/500 [02:19<01:10, 2.37it/s]
Power Factorization: 67%	333/500 [02:19<01:09, 2.39it/s]
Power Factorization: 67%	334/500 [02:20<01:08, 2.42it/s]
Power Factorization: 67%	335/500 [02:20<01:09, 2.39it/s]
Power Factorization: 67%	336/500 [02:21<01:07, 2.42it/s]
Power Factorization: 67%	337/500 [02:21<01:10, 2.30it/s]
Power Factorization: 68%	338/500 [02:21<01:08, 2.37it/s]
Power Factorization: 68%	339/500 [02:22<01:07, 2.40it/s]
Power Factorization: 68%	340/500 [02:22<01:06, 2.40it/s]
Power Factorization: 68%	341/500 [02:23<01:05, 2.41it/s]
Power Factorization: 68%	342/500 [02:23<01:04, 2.44it/s]
Power Factorization: 69%	343/500 [02:23<01:03, 2.48it/s]

Power Factorization: 69%	344/500 [02:24<01:03, 2.44it/s]
Power Factorization: 69%	345/500 [02:24<01:02, 2.47it/s]
Power Factorization: 69%	346/500 [02:25<01:04, 2.40it/s]
Power Factorization: 69%	347/500 [02:25<01:02, 2.43it/s]
Power Factorization: 70%	348/500 [02:26<01:01, 2.47it/s]
Power Factorization: 70%	349/500 [02:26<01:00, 2.50it/s]
Power Factorization: 70%	350/500 [02:26<00:59, 2.53it/s]
Power Factorization: 70%	351/500 [02:27<00:59, 2.52it/s]
Power Factorization: 70%	352/500 [02:27<00:58, 2.52it/s]
Power Factorization: 71%	353/500 [02:28<01:00, 2.42it/s]
Power Factorization: 71%	354/500 [02:28<00:59, 2.46it/s]
Power Factorization: 71%	355/500 [02:28<00:59, 2.43it/s]
Power Factorization: 71%	356/500 [02:29<00:58, 2.47it/s]
Power Factorization: 71%	357/500 [02:29<00:58, 2.45it/s]
Power Factorization: 72%	358/500 [02:30<00:58, 2.41it/s]
Power Factorization: 72%	359/500 [02:30<00:57, 2.43it/s]
Power Factorization: 72%	360/500 [02:30<00:57, 2.45it/s]
Power Factorization: 72%	361/500 [02:31<00:57, 2.43it/s]
Power Factorization: 72%	362/500 [02:31<00:57, 2.39it/s]
Power Factorization: 73%	363/500 [02:32<00:56, 2.43it/s]
Power Factorization: 73%	364/500 [02:32<00:55, 2.43it/s]
Power Factorization: 73%	365/500 [02:33<00:57, 2.33it/s]
Power Factorization: 73%	366/500 [02:33<00:56, 2.36it/s]
Power Factorization: 73%	367/500 [02:33<00:55, 2.40it/s]

Power Factorization: 74%	368/500 [02:34<00:54,	2.44it/s]
Power Factorization: 74%	369/500 [02:34<00:53,	2.46it/s]
Power Factorization: 74%	370/500 [02:35<00:54,	2.40it/s]
Power Factorization: 74%	371/500 [02:35<00:53,	2.39it/s]
Power Factorization: 74%	372/500 [02:35<00:52,	2.45it/s]
Power Factorization: 75%	373/500 [02:36<00:53,	2.39it/s]
Power Factorization: 75%	374/500 [02:36<00:51,	2.43it/s]
Power Factorization: 75%	375/500 [02:37<00:50,	2.48it/s]
Power Factorization: 75%	376/500 [02:37<00:49,	2.49it/s]
Power Factorization: 75%	377/500 [02:37<00:50,	2.43it/s]
Power Factorization: 76%	378/500 [02:38<00:51,	2.36it/s]
Power Factorization: 76%	379/500 [02:38<00:50,	2.40it/s]
Power Factorization: 76%	380/500 [02:39<00:49,	2.43it/s]
Power Factorization: 76%	381/500 [02:39<00:48,	2.46it/s]
Power Factorization: 76%	382/500 [02:39<00:47,	2.50it/s]
Power Factorization: 77%	383/500 [02:40<00:47,	2.49it/s]
Power Factorization: 77%	384/500 [02:40<00:47,	2.46it/s]
Power Factorization: 77%	385/500 [02:41<00:45,	2.52it/s]
Power Factorization: 77%	386/500 [02:41<00:45,	2.51it/s]
Power Factorization: 77%	387/500 [02:41<00:44,	2.52it/s]
Power Factorization: 78%	388/500 [02:42<00:45,	2.48it/s]
Power Factorization: 78%	389/500 [02:42<00:44,	2.49it/s]
Power Factorization: 78%	390/500 [02:43<00:44,	2.50it/s]
Power Factorization: 78%	391/500 [02:43<00:47,	2.30it/s]

Power Factorization: 78%	392/500 [02:44<00:46, 2.31it/s]
Power Factorization: 79%	393/500 [02:44<00:45, 2.35it/s]
Power Factorization: 79%	394/500 [02:44<00:43, 2.42it/s]
Power Factorization: 79%	395/500 [02:45<00:43, 2.39it/s]
Power Factorization: 79%	396/500 [02:45<00:42, 2.43it/s]
Power Factorization: 79%	397/500 [02:46<00:42, 2.44it/s]
Power Factorization: 80%	398/500 [02:46<00:41, 2.47it/s]
Power Factorization: 80%	399/500 [02:46<00:40, 2.49it/s]
Power Factorization: 80%	400/500 [02:47<00:39, 2.53it/s]
Power Factorization: 80%	401/500 [02:47<00:38, 2.55it/s]
Power Factorization: 80%	402/500 [02:48<00:38, 2.57it/s]
Power Factorization: 81%	403/500 [02:48<00:38, 2.49it/s]
Power Factorization: 81%	404/500 [02:49<00:41, 2.30it/s]
Power Factorization: 81%	405/500 [02:49<00:40, 2.32it/s]
Power Factorization: 81%	406/500 [02:49<00:38, 2.42it/s]
Power Factorization: 81%	407/500 [02:50<00:37, 2.50it/s]
Power Factorization: 82%	408/500 [02:50<00:37, 2.45it/s]
Power Factorization: 82%	409/500 [02:51<00:36, 2.47it/s]
Power Factorization: 82%	410/500 [02:51<00:36, 2.49it/s]
Power Factorization: 82%	411/500 [02:51<00:35, 2.51it/s]
Power Factorization: 82%	412/500 [02:52<00:34, 2.55it/s]
Power Factorization: 83%	413/500 [02:52<00:34, 2.52it/s]
Power Factorization: 83%	414/500 [02:52<00:34, 2.53it/s]
Power Factorization: 83%	415/500 [02:53<00:33, 2.51it/s]

Power Factorization: 83%	416/500 [02:53<00:33,	2.48it/s]
Power Factorization: 83%	417/500 [02:54<00:34,	2.38it/s]
Power Factorization: 84%	418/500 [02:54<00:34,	2.38it/s]
Power Factorization: 84%	419/500 [02:55<00:34,	2.36it/s]
Power Factorization: 84%	420/500 [02:55<00:34,	2.31it/s]
Power Factorization: 84%	421/500 [02:55<00:32,	2.40it/s]
Power Factorization: 84%	422/500 [02:56<00:32,	2.43it/s]
Power Factorization: 85%	423/500 [02:56<00:32,	2.40it/s]
Power Factorization: 85%	424/500 [02:57<00:31,	2.41it/s]
Power Factorization: 85%	425/500 [02:57<00:30,	2.43it/s]
Power Factorization: 85%	426/500 [02:57<00:29,	2.47it/s]
Power Factorization: 85%	427/500 [02:58<00:29,	2.46it/s]
Power Factorization: 86%	428/500 [02:58<00:28,	2.50it/s]
Power Factorization: 86%	429/500 [02:59<00:28,	2.46it/s]
Power Factorization: 86%	430/500 [02:59<00:28,	2.45it/s]
Power Factorization: 86%	431/500 [02:59<00:27,	2.48it/s]
Power Factorization: 86%	432/500 [03:00<00:27,	2.43it/s]
Power Factorization: 87%	433/500 [03:00<00:28,	2.38it/s]
Power Factorization: 87%	434/500 [03:01<00:28,	2.32it/s]
Power Factorization: 87%	435/500 [03:01<00:27,	2.33it/s]
Power Factorization: 87%	436/500 [03:02<00:27,	2.32it/s]
Power Factorization: 87%	437/500 [03:02<00:26,	2.35it/s]
Power Factorization: 88%	438/500 [03:03<00:26,	2.35it/s]
Power Factorization: 88%	439/500 [03:03<00:25,	2.37it/s]

Power Factorization: 88%	440/500 [03:03<00:26,	2.29it/s]
Power Factorization: 88%	441/500 [03:04<00:26,	2.20it/s]
Power Factorization: 88%	442/500 [03:04<00:26,	2.16it/s]
Power Factorization: 89%	443/500 [03:05<00:25,	2.22it/s]
Power Factorization: 89%	444/500 [03:05<00:25,	2.22it/s]
Power Factorization: 89%	445/500 [03:06<00:25,	2.18it/s]
Power Factorization: 89%	446/500 [03:06<00:24,	2.24it/s]
Power Factorization: 89%	447/500 [03:07<00:23,	2.28it/s]
Power Factorization: 90%	448/500 [03:07<00:22,	2.31it/s]
Power Factorization: 90%	449/500 [03:07<00:22,	2.26it/s]
Power Factorization: 90%	450/500 [03:08<00:21,	2.28it/s]
Power Factorization: 90%	451/500 [03:08<00:22,	2.15it/s]
Power Factorization: 90%	452/500 [03:09<00:21,	2.22it/s]
Power Factorization: 91%	453/500 [03:09<00:21,	2.16it/s]
Power Factorization: 91%	454/500 [03:10<00:20,	2.21it/s]
Power Factorization: 91%	455/500 [03:10<00:19,	2.30it/s]
Power Factorization: 91%	456/500 [03:11<00:19,	2.28it/s]
Power Factorization: 91%	457/500 [03:11<00:18,	2.35it/s]
Power Factorization: 92%	458/500 [03:11<00:17,	2.39it/s]
Power Factorization: 92%	459/500 [03:12<00:17,	2.37it/s]
Power Factorization: 92%	460/500 [03:12<00:16,	2.36it/s]
Power Factorization: 92%	461/500 [03:13<00:16,	2.41it/s]
Power Factorization: 92%	462/500 [03:13<00:15,	2.43it/s]
Power Factorization: 93%	463/500 [03:13<00:15,	2.39it/s]

Power Factorization: 93%	464/500 [03:14<00:14, 2.46it/s]
Power Factorization: 93%	465/500 [03:14<00:15, 2.27it/s]
Power Factorization: 93%	466/500 [03:15<00:14, 2.32it/s]
Power Factorization: 93%	467/500 [03:15<00:14, 2.35it/s]
Power Factorization: 94%	468/500 [03:16<00:13, 2.38it/s]
Power Factorization: 94%	469/500 [03:16<00:13, 2.37it/s]
Power Factorization: 94%	470/500 [03:16<00:12, 2.40it/s]
Power Factorization: 94%	471/500 [03:17<00:12, 2.33it/s]
Power Factorization: 94%	472/500 [03:17<00:12, 2.33it/s]
Power Factorization: 95%	473/500 [03:18<00:11, 2.28it/s]
Power Factorization: 95%	474/500 [03:18<00:11, 2.33it/s]
Power Factorization: 95%	475/500 [03:19<00:11, 2.27it/s]
Power Factorization: 95%	476/500 [03:19<00:10, 2.30it/s]
Power Factorization: 95%	477/500 [03:20<00:11, 2.07it/s]
Power Factorization: 96%	478/500 [03:20<00:11, 1.92it/s]
Power Factorization: 96%	479/500 [03:21<00:10, 2.02it/s]
Power Factorization: 96%	480/500 [03:21<00:09, 2.13it/s]
Power Factorization: 96%	481/500 [03:22<00:08, 2.19it/s]
Power Factorization: 96%	482/500 [03:22<00:08, 2.18it/s]
Power Factorization: 97%	483/500 [03:22<00:07, 2.22it/s]
Power Factorization: 97%	484/500 [03:23<00:07, 2.19it/s]
Power Factorization: 97%	485/500 [03:24<00:08, 1.77it/s]
Power Factorization: 97%	486/500 [03:26<00:13, 1.00it/s]
Power Factorization: 97%	487/500 [03:26<00:11, 1.11it/s]

Power Factorization: 98%| | 488/500 [03:27<00:09, 1.22it/s]

Power Factorization: 98%| | 489/500 [03:28<00:07, 1.39it/s]

Power Factorization: 98%| | 490/500 [03:28<00:06, 1.53it/s]

Power Factorization: 98%| | 491/500 [03:29<00:05, 1.59it/s]

Power Factorization: 98%| | 492/500 [03:29<00:04, 1.73it/s]

Power Factorization: 99%| | 493/500 [03:30<00:03, 1.80it/s]

Power Factorization: 99%| | 494/500 [03:30<00:03, 1.55it/s]

Power Factorization: 99%| | 495/500 [03:31<00:03, 1.55it/s]

Power Factorization: 99%| | 496/500 [03:32<00:02, 1.65it/s]

Power Factorization: 99%| | 497/500 [03:32<00:01, 1.72it/s]

Power Factorization: 100%| | 498/500 [03:33<00:01, 1.76it/s]

Power Factorization: 100%| | 499/500 [03:33<00:00, 1.80it/s]

Power Factorization: 100%| | 500/500 [03:34<00:00, 2.34it/s]

Cross Validation: 100%| | 5/5 [18:10<00:00, 218.10s/it]

Grid Search: 56%| | 9/16 [1:18:59<1:16:30, 655.78s/it]

Average RMS for k=15, lambda=0.1: 3.1315, Execution time: 218.0268s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<04:20, 1.92it/s]

Power Factorization: 0%| | 2/500 [00:00<04:04, 2.03it/s]

Power Factorization: 1%| | 3/500 [00:01<03:56, 2.10it/s]

Power Factorization: 1%| | 4/500 [00:02<04:23, 1.88it/s]

Power Factorization: 1%| | 5/500 [00:02<04:24, 1.87it/s]

Power Factorization: 1%| | 6/500 [00:03<04:38, 1.77it/s]

Power Factorization:	1%	7/500 [00:03<04:33, 1.80it/s]
Power Factorization:	2%	8/500 [00:04<04:24, 1.86it/s]
Power Factorization:	2%	9/500 [00:04<04:14, 1.93it/s]
Power Factorization:	2%	10/500 [00:05<04:05, 2.00it/s]
Power Factorization:	2%	11/500 [00:05<03:57, 2.06it/s]
Power Factorization:	2%	12/500 [00:06<03:57, 2.05it/s]
Power Factorization:	3%	13/500 [00:06<03:48, 2.13it/s]
Power Factorization:	3%	14/500 [00:07<04:12, 1.93it/s]
Power Factorization:	3%	15/500 [00:07<04:03, 1.99it/s]
Power Factorization:	3%	16/500 [00:08<03:58, 2.03it/s]
Power Factorization:	3%	17/500 [00:08<03:50, 2.10it/s]
Power Factorization:	4%	18/500 [00:09<03:42, 2.17it/s]
Power Factorization:	4%	19/500 [00:09<03:34, 2.24it/s]
Power Factorization:	4%	20/500 [00:09<03:34, 2.24it/s]
Power Factorization:	4%	21/500 [00:10<03:28, 2.29it/s]
Power Factorization:	4%	22/500 [00:10<03:21, 2.37it/s]
Power Factorization:	5%	23/500 [00:11<03:23, 2.35it/s]
Power Factorization:	5%	24/500 [00:11<03:21, 2.37it/s]
Power Factorization:	5%	25/500 [00:11<03:24, 2.32it/s]
Power Factorization:	5%	26/500 [00:12<03:32, 2.23it/s]
Power Factorization:	5%	27/500 [00:12<03:36, 2.18it/s]
Power Factorization:	6%	28/500 [00:13<03:28, 2.27it/s]
Power Factorization:	6%	29/500 [00:13<03:21, 2.34it/s]
Power Factorization:	6%	30/500 [00:14<03:14, 2.42it/s]

Power Factorization:	6%	31/500	[00:14<03:12,	2.44it/s]
Power Factorization:	6%	32/500	[00:14<03:10,	2.45it/s]
Power Factorization:	7%	33/500	[00:15<03:08,	2.48it/s]
Power Factorization:	7%	34/500	[00:15<03:11,	2.44it/s]
Power Factorization:	7%	35/500	[00:16<03:24,	2.28it/s]
Power Factorization:	7%	36/500	[00:16<03:27,	2.24it/s]
Power Factorization:	7%	37/500	[00:17<03:22,	2.28it/s]
Power Factorization:	8%	38/500	[00:17<03:33,	2.16it/s]
Power Factorization:	8%	39/500	[00:18<03:29,	2.20it/s]
Power Factorization:	8%	40/500	[00:18<03:23,	2.26it/s]
Power Factorization:	8%	41/500	[00:18<03:19,	2.30it/s]
Power Factorization:	8%	42/500	[00:19<03:17,	2.32it/s]
Power Factorization:	9%	43/500	[00:19<03:18,	2.30it/s]
Power Factorization:	9%	44/500	[00:20<03:28,	2.18it/s]
Power Factorization:	9%	45/500	[00:20<03:19,	2.28it/s]
Power Factorization:	9%	46/500	[00:21<03:18,	2.29it/s]
Power Factorization:	9%	47/500	[00:21<03:15,	2.32it/s]
Power Factorization:	10%	48/500	[00:21<03:13,	2.34it/s]
Power Factorization:	10%	49/500	[00:22<03:16,	2.29it/s]
Power Factorization:	10%	50/500	[00:22<03:29,	2.15it/s]
Power Factorization:	10%	51/500	[00:23<03:28,	2.16it/s]
Power Factorization:	10%	52/500	[00:23<03:23,	2.21it/s]
Power Factorization:	11%	53/500	[00:24<03:16,	2.28it/s]
Power Factorization:	11%	54/500	[00:24<03:06,	2.39it/s]

Power Factorization: 11%	55/500 [00:25<03:03, 2.43it/s]
Power Factorization: 11%	56/500 [00:25<03:00, 2.45it/s]
Power Factorization: 11%	57/500 [00:25<02:55, 2.52it/s]
Power Factorization: 12%	58/500 [00:26<03:00, 2.46it/s]
Power Factorization: 12%	59/500 [00:26<02:58, 2.48it/s]
Power Factorization: 12%	60/500 [00:26<02:56, 2.49it/s]
Power Factorization: 12%	61/500 [00:27<02:55, 2.50it/s]
Power Factorization: 12%	62/500 [00:27<03:15, 2.24it/s]
Power Factorization: 13%	63/500 [00:28<03:34, 2.04it/s]
Power Factorization: 13%	64/500 [00:28<03:26, 2.11it/s]
Power Factorization: 13%	65/500 [00:29<03:18, 2.19it/s]
Power Factorization: 13%	66/500 [00:29<03:13, 2.24it/s]
Power Factorization: 13%	67/500 [00:30<03:13, 2.24it/s]
Power Factorization: 14%	68/500 [00:30<03:10, 2.27it/s]
Power Factorization: 14%	69/500 [00:31<03:06, 2.31it/s]
Power Factorization: 14%	70/500 [00:31<03:02, 2.36it/s]
Power Factorization: 14%	71/500 [00:31<03:06, 2.30it/s]
Power Factorization: 14%	72/500 [00:32<03:11, 2.24it/s]
Power Factorization: 15%	73/500 [00:32<03:08, 2.26it/s]
Power Factorization: 15%	74/500 [00:33<03:11, 2.23it/s]
Power Factorization: 15%	75/500 [00:33<03:11, 2.22it/s]
Power Factorization: 15%	76/500 [00:34<03:03, 2.31it/s]
Power Factorization: 15%	77/500 [00:34<03:04, 2.29it/s]
Power Factorization: 16%	78/500 [00:35<02:58, 2.36it/s]

Power Factorization: 16%	79/500 [00:35<03:00, 2.33it/s]
Power Factorization: 16%	80/500 [00:35<02:57, 2.36it/s]
Power Factorization: 16%	81/500 [00:36<03:00, 2.32it/s]
Power Factorization: 16%	82/500 [00:36<03:01, 2.30it/s]
Power Factorization: 17%	83/500 [00:37<03:02, 2.29it/s]
Power Factorization: 17%	84/500 [00:37<03:11, 2.17it/s]
Power Factorization: 17%	85/500 [00:38<03:06, 2.23it/s]
Power Factorization: 17%	86/500 [00:38<02:59, 2.30it/s]
Power Factorization: 17%	87/500 [00:38<02:58, 2.31it/s]
Power Factorization: 18%	88/500 [00:39<02:54, 2.36it/s]
Power Factorization: 18%	89/500 [00:39<02:55, 2.35it/s]
Power Factorization: 18%	90/500 [00:40<02:55, 2.33it/s]
Power Factorization: 18%	91/500 [00:40<02:57, 2.31it/s]
Power Factorization: 18%	92/500 [00:41<02:54, 2.34it/s]
Power Factorization: 19%	93/500 [00:41<02:56, 2.30it/s]
Power Factorization: 19%	94/500 [00:41<02:57, 2.29it/s]
Power Factorization: 19%	95/500 [00:42<02:53, 2.33it/s]
Power Factorization: 19%	96/500 [00:42<02:47, 2.40it/s]
Power Factorization: 19%	97/500 [00:43<02:42, 2.47it/s]
Power Factorization: 20%	98/500 [00:43<02:39, 2.52it/s]
Power Factorization: 20%	99/500 [00:43<02:44, 2.43it/s]
Power Factorization: 20%	100/500 [00:44<02:46, 2.41it/s]
Power Factorization: 20%	101/500 [00:44<02:45, 2.41it/s]
Power Factorization: 20%	102/500 [00:45<02:46, 2.39it/s]

Power Factorization: 21%	103/500 [00:45<02:42, 2.44it/s]
Power Factorization: 21%	104/500 [00:46<02:39, 2.48it/s]
Power Factorization: 21%	105/500 [00:46<02:40, 2.47it/s]
Power Factorization: 21%	106/500 [00:46<02:40, 2.45it/s]
Power Factorization: 21%	107/500 [00:47<02:40, 2.45it/s]
Power Factorization: 22%	108/500 [00:47<02:35, 2.52it/s]
Power Factorization: 22%	109/500 [00:47<02:30, 2.60it/s]
Power Factorization: 22%	110/500 [00:48<02:28, 2.62it/s]
Power Factorization: 22%	111/500 [00:48<02:26, 2.65it/s]
Power Factorization: 22%	112/500 [00:49<02:30, 2.58it/s]
Power Factorization: 23%	113/500 [00:49<02:30, 2.57it/s]
Power Factorization: 23%	114/500 [00:49<02:26, 2.64it/s]
Power Factorization: 23%	115/500 [00:50<02:25, 2.65it/s]
Power Factorization: 23%	116/500 [00:50<02:24, 2.65it/s]
Power Factorization: 23%	117/500 [00:51<02:23, 2.66it/s]
Power Factorization: 24%	118/500 [00:51<02:20, 2.72it/s]
Power Factorization: 24%	119/500 [00:51<02:20, 2.72it/s]
Power Factorization: 24%	120/500 [00:52<02:17, 2.76it/s]
Power Factorization: 24%	121/500 [00:52<02:15, 2.80it/s]
Power Factorization: 24%	122/500 [00:52<02:15, 2.79it/s]
Power Factorization: 25%	123/500 [00:53<02:17, 2.75it/s]
Power Factorization: 25%	124/500 [00:53<02:20, 2.67it/s]
Power Factorization: 25%	125/500 [00:53<02:19, 2.70it/s]
Power Factorization: 25%	126/500 [00:54<02:17, 2.73it/s]

Power Factorization: 25%	127/500 [00:54<02:16, 2.73it/s]
Power Factorization: 26%	128/500 [00:55<02:19, 2.67it/s]
Power Factorization: 26%	129/500 [00:55<02:15, 2.74it/s]
Power Factorization: 26%	130/500 [00:55<02:14, 2.75it/s]
Power Factorization: 26%	131/500 [00:56<02:14, 2.75it/s]
Power Factorization: 26%	132/500 [00:56<02:13, 2.76it/s]
Power Factorization: 27%	133/500 [00:56<02:13, 2.76it/s]
Power Factorization: 27%	134/500 [00:57<02:14, 2.72it/s]
Power Factorization: 27%	135/500 [00:57<02:15, 2.70it/s]
Power Factorization: 27%	136/500 [00:57<02:17, 2.65it/s]
Power Factorization: 27%	137/500 [00:58<02:18, 2.62it/s]
Power Factorization: 28%	138/500 [00:58<02:18, 2.62it/s]
Power Factorization: 28%	139/500 [00:59<02:18, 2.61it/s]
Power Factorization: 28%	140/500 [00:59<02:16, 2.64it/s]
Power Factorization: 28%	141/500 [00:59<02:17, 2.62it/s]
Power Factorization: 28%	142/500 [01:00<02:17, 2.60it/s]
Power Factorization: 29%	143/500 [01:00<02:16, 2.62it/s]
Power Factorization: 29%	144/500 [01:01<02:15, 2.64it/s]
Power Factorization: 29%	145/500 [01:01<02:12, 2.67it/s]
Power Factorization: 29%	146/500 [01:01<02:12, 2.67it/s]
Power Factorization: 29%	147/500 [01:02<02:12, 2.66it/s]
Power Factorization: 30%	148/500 [01:02<02:12, 2.66it/s]
Power Factorization: 30%	149/500 [01:02<02:09, 2.71it/s]
Power Factorization: 30%	150/500 [01:03<02:09, 2.69it/s]

Power Factorization: 30%	151/500 [01:03<02:08, 2.72it/s]
Power Factorization: 30%	152/500 [01:03<02:05, 2.77it/s]
Power Factorization: 31%	153/500 [01:04<02:07, 2.72it/s]
Power Factorization: 31%	154/500 [01:04<02:09, 2.67it/s]
Power Factorization: 31%	155/500 [01:05<02:09, 2.67it/s]
Power Factorization: 31%	156/500 [01:05<02:09, 2.66it/s]
Power Factorization: 31%	157/500 [01:05<02:11, 2.61it/s]
Power Factorization: 32%	158/500 [01:06<02:09, 2.65it/s]
Power Factorization: 32%	159/500 [01:06<02:08, 2.66it/s]
Power Factorization: 32%	160/500 [01:07<02:08, 2.64it/s]
Power Factorization: 32%	161/500 [01:07<02:06, 2.67it/s]
Power Factorization: 32%	162/500 [01:07<02:06, 2.67it/s]
Power Factorization: 33%	163/500 [01:08<02:06, 2.65it/s]
Power Factorization: 33%	164/500 [01:08<02:03, 2.72it/s]
Power Factorization: 33%	165/500 [01:08<02:02, 2.73it/s]
Power Factorization: 33%	166/500 [01:09<02:01, 2.74it/s]
Power Factorization: 33%	167/500 [01:09<02:02, 2.72it/s]
Power Factorization: 34%	168/500 [01:09<02:03, 2.70it/s]
Power Factorization: 34%	169/500 [01:10<02:02, 2.69it/s]
Power Factorization: 34%	170/500 [01:10<02:01, 2.71it/s]
Power Factorization: 34%	171/500 [01:11<02:01, 2.70it/s]
Power Factorization: 34%	172/500 [01:11<02:03, 2.66it/s]
Power Factorization: 35%	173/500 [01:11<02:03, 2.65it/s]
Power Factorization: 35%	174/500 [01:12<02:01, 2.69it/s]

Power Factorization: 35%	175/500 [01:12<02:01, 2.68it/s]
Power Factorization: 35%	176/500 [01:12<01:59, 2.70it/s]
Power Factorization: 35%	177/500 [01:13<01:58, 2.72it/s]
Power Factorization: 36%	178/500 [01:13<01:58, 2.71it/s]
Power Factorization: 36%	179/500 [01:14<01:58, 2.71it/s]
Power Factorization: 36%	180/500 [01:14<01:57, 2.71it/s]
Power Factorization: 36%	181/500 [01:14<01:58, 2.70it/s]
Power Factorization: 36%	182/500 [01:15<01:57, 2.71it/s]
Power Factorization: 37%	183/500 [01:15<01:56, 2.71it/s]
Power Factorization: 37%	184/500 [01:15<01:59, 2.64it/s]
Power Factorization: 37%	185/500 [01:16<02:00, 2.62it/s]
Power Factorization: 37%	186/500 [01:16<01:58, 2.65it/s]
Power Factorization: 37%	187/500 [01:17<01:58, 2.65it/s]
Power Factorization: 38%	188/500 [01:17<01:57, 2.66it/s]
Power Factorization: 38%	189/500 [01:17<01:55, 2.68it/s]
Power Factorization: 38%	190/500 [01:18<01:56, 2.66it/s]
Power Factorization: 38%	191/500 [01:18<01:54, 2.69it/s]
Power Factorization: 38%	192/500 [01:18<01:52, 2.74it/s]
Power Factorization: 39%	193/500 [01:19<01:56, 2.63it/s]
Power Factorization: 39%	194/500 [01:19<02:00, 2.54it/s]
Power Factorization: 39%	195/500 [01:20<02:06, 2.40it/s]
Power Factorization: 39%	196/500 [01:20<02:31, 2.01it/s]
Power Factorization: 39%	197/500 [01:21<02:25, 2.09it/s]
Power Factorization: 40%	198/500 [01:21<02:21, 2.13it/s]

Power Factorization: 40%	199/500 [01:22<02:15, 2.22it/s]
Power Factorization: 40%	200/500 [01:22<02:14, 2.23it/s]
Power Factorization: 40%	201/500 [01:23<02:13, 2.24it/s]
Power Factorization: 40%	202/500 [01:23<02:09, 2.30it/s]
Power Factorization: 41%	203/500 [01:23<02:09, 2.30it/s]
Power Factorization: 41%	204/500 [01:24<02:07, 2.32it/s]
Power Factorization: 41%	205/500 [01:24<02:11, 2.25it/s]
Power Factorization: 41%	206/500 [01:25<02:07, 2.30it/s]
Power Factorization: 41%	207/500 [01:25<02:09, 2.26it/s]
Power Factorization: 42%	208/500 [01:26<02:10, 2.24it/s]
Power Factorization: 42%	209/500 [01:26<02:12, 2.20it/s]
Power Factorization: 42%	210/500 [01:27<02:14, 2.16it/s]
Power Factorization: 42%	211/500 [01:27<02:13, 2.17it/s]
Power Factorization: 42%	212/500 [01:28<02:16, 2.10it/s]
Power Factorization: 43%	213/500 [01:28<02:16, 2.11it/s]
Power Factorization: 43%	214/500 [01:29<02:17, 2.08it/s]
Power Factorization: 43%	215/500 [01:29<02:16, 2.09it/s]
Power Factorization: 43%	216/500 [01:29<02:14, 2.12it/s]
Power Factorization: 43%	217/500 [01:30<02:12, 2.14it/s]
Power Factorization: 44%	218/500 [01:30<02:11, 2.14it/s]
Power Factorization: 44%	219/500 [01:31<02:20, 1.99it/s]
Power Factorization: 44%	220/500 [01:31<02:20, 2.00it/s]
Power Factorization: 44%	221/500 [01:32<02:12, 2.11it/s]
Power Factorization: 44%	222/500 [01:32<02:09, 2.14it/s]

Power Factorization: 45%	223/500 [01:33<02:07, 2.18it/s]
Power Factorization: 45%	224/500 [01:33<02:04, 2.22it/s]
Power Factorization: 45%	225/500 [01:34<02:01, 2.27it/s]
Power Factorization: 45%	226/500 [01:34<02:00, 2.27it/s]
Power Factorization: 45%	227/500 [01:35<02:02, 2.22it/s]
Power Factorization: 46%	228/500 [01:35<02:01, 2.24it/s]
Power Factorization: 46%	229/500 [01:35<02:02, 2.21it/s]
Power Factorization: 46%	230/500 [01:36<02:04, 2.17it/s]
Power Factorization: 46%	231/500 [01:36<02:06, 2.12it/s]
Power Factorization: 46%	232/500 [01:37<02:12, 2.02it/s]
Power Factorization: 47%	233/500 [01:37<02:09, 2.06it/s]
Power Factorization: 47%	234/500 [01:38<02:06, 2.10it/s]
Power Factorization: 47%	235/500 [01:38<02:05, 2.11it/s]
Power Factorization: 47%	236/500 [01:39<02:03, 2.13it/s]
Power Factorization: 47%	237/500 [01:39<02:04, 2.12it/s]
Power Factorization: 48%	238/500 [01:40<02:04, 2.11it/s]
Power Factorization: 48%	239/500 [01:40<02:09, 2.02it/s]
Power Factorization: 48%	240/500 [01:41<02:07, 2.04it/s]
Power Factorization: 48%	241/500 [01:41<02:09, 2.00it/s]
Power Factorization: 48%	242/500 [01:42<02:11, 1.96it/s]
Power Factorization: 49%	243/500 [01:42<02:11, 1.96it/s]
Power Factorization: 49%	244/500 [01:43<02:07, 2.01it/s]
Power Factorization: 49%	245/500 [01:43<02:06, 2.01it/s]
Power Factorization: 49%	246/500 [01:44<02:01, 2.09it/s]

Power Factorization: 49%	247/500 [01:44<01:57, 2.15it/s]
Power Factorization: 50%	248/500 [01:45<01:58, 2.12it/s]
Power Factorization: 50%	249/500 [01:45<01:56, 2.16it/s]
Power Factorization: 50%	250/500 [01:46<01:54, 2.18it/s]
Power Factorization: 50%	251/500 [01:46<01:54, 2.17it/s]
Power Factorization: 50%	252/500 [01:46<01:51, 2.22it/s]
Power Factorization: 51%	253/500 [01:47<01:49, 2.26it/s]
Power Factorization: 51%	254/500 [01:47<01:57, 2.09it/s]
Power Factorization: 51%	255/500 [01:48<01:54, 2.15it/s]
Power Factorization: 51%	256/500 [01:48<01:50, 2.21it/s]
Power Factorization: 51%	257/500 [01:49<01:49, 2.22it/s]
Power Factorization: 52%	258/500 [01:49<01:45, 2.29it/s]
Power Factorization: 52%	259/500 [01:50<01:44, 2.31it/s]
Power Factorization: 52%	260/500 [01:50<01:43, 2.32it/s]
Power Factorization: 52%	261/500 [01:50<01:42, 2.34it/s]
Power Factorization: 52%	262/500 [01:51<01:42, 2.33it/s]
Power Factorization: 53%	263/500 [01:52<02:52, 1.38it/s]
Power Factorization: 53%	264/500 [01:53<02:36, 1.50it/s]
Power Factorization: 53%	265/500 [01:53<02:22, 1.64it/s]
Power Factorization: 53%	266/500 [01:54<02:12, 1.77it/s]
Power Factorization: 53%	267/500 [01:54<02:02, 1.91it/s]
Power Factorization: 54%	268/500 [01:55<01:57, 1.98it/s]
Power Factorization: 54%	269/500 [01:55<01:55, 2.00it/s]
Power Factorization: 54%	270/500 [01:56<01:50, 2.07it/s]

Power Factorization: 54%	271/500 [01:56<01:47, 2.14it/s]
Power Factorization: 54%	272/500 [01:56<01:48, 2.11it/s]
Power Factorization: 55%	273/500 [01:57<01:47, 2.11it/s]
Power Factorization: 55%	274/500 [01:57<01:45, 2.14it/s]
Power Factorization: 55%	275/500 [01:58<01:45, 2.13it/s]
Power Factorization: 55%	276/500 [01:58<01:45, 2.13it/s]
Power Factorization: 55%	277/500 [01:59<01:44, 2.13it/s]
Power Factorization: 56%	278/500 [01:59<01:46, 2.09it/s]
Power Factorization: 56%	279/500 [02:00<01:42, 2.15it/s]
Power Factorization: 56%	280/500 [02:00<01:44, 2.12it/s]
Power Factorization: 56%	281/500 [02:01<01:42, 2.14it/s]
Power Factorization: 56%	282/500 [02:01<01:44, 2.10it/s]
Power Factorization: 57%	283/500 [02:02<01:41, 2.14it/s]
Power Factorization: 57%	284/500 [02:02<01:43, 2.10it/s]
Power Factorization: 57%	285/500 [02:03<01:40, 2.14it/s]
Power Factorization: 57%	286/500 [02:03<01:39, 2.14it/s]
Power Factorization: 57%	287/500 [02:04<01:44, 2.04it/s]
Power Factorization: 58%	288/500 [02:04<01:42, 2.07it/s]
Power Factorization: 58%	289/500 [02:05<01:45, 2.00it/s]
Power Factorization: 58%	290/500 [02:05<01:41, 2.08it/s]
Power Factorization: 58%	291/500 [02:05<01:39, 2.11it/s]
Power Factorization: 58%	292/500 [02:06<01:37, 2.14it/s]
Power Factorization: 59%	293/500 [02:06<01:36, 2.15it/s]
Power Factorization: 59%	294/500 [02:07<01:34, 2.17it/s]

Power Factorization: 59%	295/500 [02:07<01:35, 2.14it/s]
Power Factorization: 59%	296/500 [02:08<01:33, 2.18it/s]
Power Factorization: 59%	297/500 [02:08<01:31, 2.21it/s]
Power Factorization: 60%	298/500 [02:09<01:32, 2.17it/s]
Power Factorization: 60%	299/500 [02:09<01:31, 2.19it/s]
Power Factorization: 60%	300/500 [02:10<01:31, 2.18it/s]
Power Factorization: 60%	301/500 [02:10<01:29, 2.22it/s]
Power Factorization: 60%	302/500 [02:11<01:30, 2.19it/s]
Power Factorization: 61%	303/500 [02:11<01:28, 2.22it/s]
Power Factorization: 61%	304/500 [02:11<01:28, 2.21it/s]
Power Factorization: 61%	305/500 [02:12<01:27, 2.22it/s]
Power Factorization: 61%	306/500 [02:12<01:36, 2.00it/s]
Power Factorization: 61%	307/500 [02:13<01:34, 2.05it/s]
Power Factorization: 62%	308/500 [02:13<01:30, 2.12it/s]
Power Factorization: 62%	309/500 [02:15<02:22, 1.34it/s]
Power Factorization: 62%	310/500 [02:15<02:12, 1.43it/s]
Power Factorization: 62%	311/500 [02:17<02:55, 1.08it/s]
Power Factorization: 62%	312/500 [02:17<02:27, 1.28it/s]
Power Factorization: 63%	313/500 [02:18<02:11, 1.42it/s]
Power Factorization: 63%	314/500 [02:18<01:56, 1.59it/s]
Power Factorization: 63%	315/500 [02:19<01:47, 1.72it/s]
Power Factorization: 63%	316/500 [02:19<01:40, 1.84it/s]
Power Factorization: 63%	317/500 [02:20<01:34, 1.93it/s]
Power Factorization: 64%	318/500 [02:20<01:34, 1.92it/s]

Power Factorization: 64%	319/500 [02:21<01:38, 1.84it/s]
Power Factorization: 64%	320/500 [02:21<01:46, 1.69it/s]
Power Factorization: 64%	321/500 [02:22<01:45, 1.70it/s]
Power Factorization: 64%	322/500 [02:22<01:33, 1.89it/s]
Power Factorization: 65%	323/500 [02:23<01:25, 2.07it/s]
Power Factorization: 65%	324/500 [02:23<01:20, 2.18it/s]
Power Factorization: 65%	325/500 [02:24<01:28, 1.97it/s]
Power Factorization: 65%	326/500 [02:24<01:22, 2.11it/s]
Power Factorization: 65%	327/500 [02:25<01:19, 2.19it/s]
Power Factorization: 66%	328/500 [02:25<01:17, 2.21it/s]
Power Factorization: 66%	329/500 [02:25<01:16, 2.23it/s]
Power Factorization: 66%	330/500 [02:26<01:13, 2.30it/s]
Power Factorization: 66%	331/500 [02:26<01:11, 2.37it/s]
Power Factorization: 66%	332/500 [02:27<01:08, 2.47it/s]
Power Factorization: 67%	333/500 [02:27<01:07, 2.47it/s]
Power Factorization: 67%	334/500 [02:27<01:06, 2.51it/s]
Power Factorization: 67%	335/500 [02:28<01:05, 2.50it/s]
Power Factorization: 67%	336/500 [02:28<01:03, 2.57it/s]
Power Factorization: 67%	337/500 [02:29<01:06, 2.47it/s]
Power Factorization: 68%	338/500 [02:29<01:11, 2.28it/s]
Power Factorization: 68%	339/500 [02:30<01:10, 2.29it/s]
Power Factorization: 68%	340/500 [02:30<01:10, 2.28it/s]
Power Factorization: 68%	341/500 [02:30<01:10, 2.26it/s]
Power Factorization: 68%	342/500 [02:31<01:10, 2.24it/s]

Power Factorization: 69%	343/500 [02:31<01:08, 2.30it/s]
Power Factorization: 69%	344/500 [02:32<01:07, 2.32it/s]
Power Factorization: 69%	345/500 [02:32<01:05, 2.35it/s]
Power Factorization: 69%	346/500 [02:33<01:05, 2.36it/s]
Power Factorization: 69%	347/500 [02:33<01:03, 2.42it/s]
Power Factorization: 70%	348/500 [02:33<01:03, 2.40it/s]
Power Factorization: 70%	349/500 [02:34<01:02, 2.42it/s]
Power Factorization: 70%	350/500 [02:34<01:01, 2.42it/s]
Power Factorization: 70%	351/500 [02:35<01:00, 2.48it/s]
Power Factorization: 70%	352/500 [02:35<00:59, 2.50it/s]
Power Factorization: 71%	353/500 [02:35<01:00, 2.41it/s]
Power Factorization: 71%	354/500 [02:37<01:34, 1.54it/s]
Power Factorization: 71%	355/500 [02:37<01:30, 1.60it/s]
Power Factorization: 71%	356/500 [02:38<01:44, 1.38it/s]
Power Factorization: 71%	357/500 [02:39<01:53, 1.26it/s]
Power Factorization: 72%	358/500 [02:40<01:37, 1.46it/s]
Power Factorization: 72%	359/500 [02:40<01:27, 1.61it/s]
Power Factorization: 72%	360/500 [02:40<01:19, 1.76it/s]
Power Factorization: 72%	361/500 [02:41<01:14, 1.87it/s]
Power Factorization: 72%	362/500 [02:41<01:08, 2.01it/s]
Power Factorization: 73%	363/500 [02:42<01:03, 2.14it/s]
Power Factorization: 73%	364/500 [02:42<01:00, 2.26it/s]
Power Factorization: 73%	365/500 [02:43<00:57, 2.36it/s]
Power Factorization: 73%	366/500 [02:43<00:57, 2.35it/s]

Power Factorization: 73%	367/500 [02:43<00:58, 2.26it/s]
Power Factorization: 74%	368/500 [02:44<00:59, 2.23it/s]
Power Factorization: 74%	369/500 [02:44<00:57, 2.28it/s]
Power Factorization: 74%	370/500 [02:45<00:57, 2.26it/s]
Power Factorization: 74%	371/500 [02:45<00:56, 2.27it/s]
Power Factorization: 74%	372/500 [02:46<00:54, 2.33it/s]
Power Factorization: 75%	373/500 [02:46<00:53, 2.36it/s]
Power Factorization: 75%	374/500 [02:46<00:53, 2.35it/s]
Power Factorization: 75%	375/500 [02:47<00:52, 2.39it/s]
Power Factorization: 75%	376/500 [02:47<00:52, 2.38it/s]
Power Factorization: 75%	377/500 [02:48<00:50, 2.42it/s]
Power Factorization: 76%	378/500 [02:48<00:50, 2.40it/s]
Power Factorization: 76%	379/500 [02:48<00:50, 2.41it/s]
Power Factorization: 76%	380/500 [02:49<00:51, 2.33it/s]
Power Factorization: 76%	381/500 [02:50<00:56, 2.11it/s]
Power Factorization: 76%	382/500 [02:50<00:54, 2.18it/s]
Power Factorization: 77%	383/500 [02:50<00:51, 2.27it/s]
Power Factorization: 77%	384/500 [02:51<00:50, 2.30it/s]
Power Factorization: 77%	385/500 [02:51<00:49, 2.34it/s]
Power Factorization: 77%	386/500 [02:52<00:49, 2.31it/s]
Power Factorization: 77%	387/500 [02:52<00:49, 2.29it/s]
Power Factorization: 78%	388/500 [02:52<00:46, 2.39it/s]
Power Factorization: 78%	389/500 [02:53<00:46, 2.39it/s]
Power Factorization: 78%	390/500 [02:53<00:46, 2.38it/s]

Power Factorization: 78%	391/500 [02:54<00:45,	2.38it/s]
Power Factorization: 78%	392/500 [02:54<00:44,	2.45it/s]
Power Factorization: 79%	393/500 [02:55<00:44,	2.42it/s]
Power Factorization: 79%	394/500 [02:55<00:43,	2.41it/s]
Power Factorization: 79%	395/500 [02:55<00:43,	2.43it/s]
Power Factorization: 79%	396/500 [02:56<00:43,	2.40it/s]
Power Factorization: 79%	397/500 [02:56<00:43,	2.38it/s]
Power Factorization: 80%	398/500 [02:57<00:43,	2.35it/s]
Power Factorization: 80%	399/500 [02:57<00:43,	2.30it/s]
Power Factorization: 80%	400/500 [02:58<00:43,	2.29it/s]
Power Factorization: 80%	401/500 [02:58<00:42,	2.32it/s]
Power Factorization: 80%	402/500 [02:58<00:42,	2.31it/s]
Power Factorization: 81%	403/500 [02:59<00:42,	2.30it/s]
Power Factorization: 81%	404/500 [02:59<00:41,	2.30it/s]
Power Factorization: 81%	405/500 [03:00<00:42,	2.24it/s]
Power Factorization: 81%	406/500 [03:00<00:40,	2.31it/s]
Power Factorization: 81%	407/500 [03:01<00:39,	2.34it/s]
Power Factorization: 82%	408/500 [03:01<00:37,	2.44it/s]
Power Factorization: 82%	409/500 [03:01<00:37,	2.44it/s]
Power Factorization: 82%	410/500 [03:02<00:36,	2.44it/s]
Power Factorization: 82%	411/500 [03:02<00:36,	2.41it/s]
Power Factorization: 82%	412/500 [03:03<00:36,	2.44it/s]
Power Factorization: 83%	413/500 [03:03<00:37,	2.31it/s]
Power Factorization: 83%	414/500 [03:03<00:36,	2.33it/s]

Power Factorization: 83%	415/500 [03:04<00:35,	2.39it/s]
Power Factorization: 83%	416/500 [03:04<00:34,	2.47it/s]
Power Factorization: 83%	417/500 [03:05<00:34,	2.42it/s]
Power Factorization: 84%	418/500 [03:05<00:34,	2.40it/s]
Power Factorization: 84%	419/500 [03:06<00:33,	2.40it/s]
Power Factorization: 84%	420/500 [03:06<00:32,	2.44it/s]
Power Factorization: 84%	421/500 [03:06<00:32,	2.45it/s]
Power Factorization: 84%	422/500 [03:07<00:32,	2.40it/s]
Power Factorization: 85%	423/500 [03:07<00:31,	2.43it/s]
Power Factorization: 85%	424/500 [03:08<00:31,	2.43it/s]
Power Factorization: 85%	425/500 [03:08<00:30,	2.43it/s]
Power Factorization: 85%	426/500 [03:08<00:29,	2.48it/s]
Power Factorization: 85%	427/500 [03:09<00:29,	2.48it/s]
Power Factorization: 86%	428/500 [03:09<00:29,	2.43it/s]
Power Factorization: 86%	429/500 [03:10<00:28,	2.47it/s]
Power Factorization: 86%	430/500 [03:10<00:28,	2.50it/s]
Power Factorization: 86%	431/500 [03:10<00:28,	2.46it/s]
Power Factorization: 86%	432/500 [03:11<00:27,	2.48it/s]
Power Factorization: 87%	433/500 [03:11<00:27,	2.48it/s]
Power Factorization: 87%	434/500 [03:12<00:27,	2.42it/s]
Power Factorization: 87%	435/500 [03:12<00:28,	2.31it/s]
Power Factorization: 87%	436/500 [03:13<00:27,	2.32it/s]
Power Factorization: 87%	437/500 [03:13<00:27,	2.31it/s]
Power Factorization: 88%	438/500 [03:14<00:43,	1.43it/s]

Power Factorization: 88%	439/500 [03:15<00:40,	1.51it/s]
Power Factorization: 88%	440/500 [03:15<00:36,	1.66it/s]
Power Factorization: 88%	441/500 [03:16<00:32,	1.80it/s]
Power Factorization: 88%	442/500 [03:16<00:31,	1.83it/s]
Power Factorization: 89%	443/500 [03:17<00:28,	1.98it/s]
Power Factorization: 89%	444/500 [03:17<00:26,	2.11it/s]
Power Factorization: 89%	445/500 [03:17<00:24,	2.24it/s]
Power Factorization: 89%	446/500 [03:18<00:22,	2.36it/s]
Power Factorization: 89%	447/500 [03:18<00:22,	2.39it/s]
Power Factorization: 90%	448/500 [03:19<00:22,	2.31it/s]
Power Factorization: 90%	449/500 [03:19<00:21,	2.33it/s]
Power Factorization: 90%	450/500 [03:20<00:21,	2.38it/s]
Power Factorization: 90%	451/500 [03:20<00:20,	2.34it/s]
Power Factorization: 90%	452/500 [03:20<00:20,	2.34it/s]
Power Factorization: 91%	453/500 [03:21<00:19,	2.39it/s]
Power Factorization: 91%	454/500 [03:21<00:19,	2.39it/s]
Power Factorization: 91%	455/500 [03:22<00:18,	2.41it/s]
Power Factorization: 91%	456/500 [03:22<00:18,	2.41it/s]
Power Factorization: 91%	457/500 [03:22<00:16,	2.55it/s]
Power Factorization: 92%	458/500 [03:23<00:16,	2.50it/s]
Power Factorization: 92%	459/500 [03:23<00:16,	2.55it/s]
Power Factorization: 92%	460/500 [03:24<00:15,	2.52it/s]
Power Factorization: 92%	461/500 [03:24<00:15,	2.47it/s]
Power Factorization: 92%	462/500 [03:24<00:16,	2.37it/s]

Power Factorization: 93%	463/500 [03:25<00:22, 1.66it/s]
Power Factorization: 93%	464/500 [03:26<00:22, 1.60it/s]
Power Factorization: 93%	465/500 [03:27<00:19, 1.75it/s]
Power Factorization: 93%	466/500 [03:27<00:17, 1.92it/s]
Power Factorization: 93%	467/500 [03:28<00:16, 1.97it/s]
Power Factorization: 94%	468/500 [03:28<00:15, 2.05it/s]
Power Factorization: 94%	469/500 [03:28<00:14, 2.18it/s]
Power Factorization: 94%	470/500 [03:29<00:13, 2.23it/s]
Power Factorization: 94%	471/500 [03:29<00:12, 2.28it/s]
Power Factorization: 94%	472/500 [03:30<00:12, 2.24it/s]
Power Factorization: 95%	473/500 [03:30<00:11, 2.28it/s]
Power Factorization: 95%	474/500 [03:30<00:11, 2.33it/s]
Power Factorization: 95%	475/500 [03:31<00:11, 2.14it/s]
Power Factorization: 95%	476/500 [03:32<00:11, 2.10it/s]
Power Factorization: 95%	477/500 [03:32<00:10, 2.19it/s]
Power Factorization: 96%	478/500 [03:33<00:11, 1.92it/s]
Power Factorization: 96%	479/500 [03:33<00:10, 1.99it/s]
Power Factorization: 96%	480/500 [03:33<00:09, 2.11it/s]
Power Factorization: 96%	481/500 [03:34<00:08, 2.14it/s]
Power Factorization: 96%	482/500 [03:34<00:08, 2.19it/s]
Power Factorization: 97%	483/500 [03:35<00:08, 2.09it/s]
Power Factorization: 97%	484/500 [03:35<00:07, 2.16it/s]
Power Factorization: 97%	485/500 [03:36<00:06, 2.29it/s]
Power Factorization: 97%	486/500 [03:36<00:05, 2.37it/s]

Power Factorization: 97%	487/500 [03:36<00:05, 2.41it/s]
Power Factorization: 98%	488/500 [03:37<00:04, 2.40it/s]
Power Factorization: 98%	489/500 [03:37<00:04, 2.40it/s]
Power Factorization: 98%	490/500 [03:38<00:04, 2.21it/s]
Power Factorization: 98%	491/500 [03:38<00:03, 2.27it/s]
Power Factorization: 98%	492/500 [03:39<00:03, 2.35it/s]
Power Factorization: 99%	493/500 [03:39<00:03, 2.31it/s]
Power Factorization: 99%	494/500 [03:40<00:02, 2.31it/s]
Power Factorization: 99%	495/500 [03:40<00:02, 2.35it/s]
Power Factorization: 99%	496/500 [03:40<00:01, 2.20it/s]
Power Factorization: 99%	497/500 [03:41<00:01, 2.01it/s]
Power Factorization: 100%	498/500 [03:41<00:00, 2.10it/s]
Power Factorization: 100%	499/500 [03:42<00:00, 2.22it/s]
Power Factorization: 100%	500/500 [03:42<00:00, 2.24it/s]
Cross Validation: 20%	1/5 [03:42<14:51, 222.82s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:56, 2.83it/s]
Power Factorization: 0%	2/500 [00:00<03:03, 2.71it/s]
Power Factorization: 1%	3/500 [00:01<03:01, 2.73it/s]
Power Factorization: 1%	4/500 [00:01<02:58, 2.77it/s]
Power Factorization: 1%	5/500 [00:01<02:56, 2.80it/s]
Power Factorization: 1%	6/500 [00:02<03:02, 2.70it/s]
Power Factorization: 1%	7/500 [00:02<03:03, 2.69it/s]
Power Factorization: 2%	8/500 [00:02<03:00, 2.72it/s]

Power Factorization:	2%	9/500	[00:03<02:59, 2.74it/s]
Power Factorization:	2%	10/500	[00:03<03:03, 2.68it/s]
Power Factorization:	2%	11/500	[00:04<03:05, 2.64it/s]
Power Factorization:	2%	12/500	[00:04<03:06, 2.61it/s]
Power Factorization:	3%	13/500	[00:04<02:59, 2.71it/s]
Power Factorization:	3%	14/500	[00:05<03:04, 2.63it/s]
Power Factorization:	3%	15/500	[00:05<02:59, 2.70it/s]
Power Factorization:	3%	16/500	[00:05<03:04, 2.63it/s]
Power Factorization:	3%	17/500	[00:06<03:06, 2.59it/s]
Power Factorization:	4%	18/500	[00:06<03:02, 2.65it/s]
Power Factorization:	4%	19/500	[00:07<03:01, 2.65it/s]
Power Factorization:	4%	20/500	[00:07<03:03, 2.61it/s]
Power Factorization:	4%	21/500	[00:08<03:42, 2.15it/s]
Power Factorization:	4%	22/500	[00:09<04:46, 1.67it/s]
Power Factorization:	5%	23/500	[00:09<05:33, 1.43it/s]
Power Factorization:	5%	24/500	[00:10<04:57, 1.60it/s]
Power Factorization:	5%	25/500	[00:10<04:21, 1.82it/s]
Power Factorization:	5%	26/500	[00:11<04:00, 1.97it/s]
Power Factorization:	5%	27/500	[00:11<03:37, 2.17it/s]
Power Factorization:	6%	28/500	[00:11<03:28, 2.27it/s]
Power Factorization:	6%	29/500	[00:12<03:21, 2.33it/s]
Power Factorization:	6%	30/500	[00:12<03:16, 2.39it/s]
Power Factorization:	6%	31/500	[00:13<03:27, 2.26it/s]
Power Factorization:	6%	32/500	[00:13<03:24, 2.29it/s]

Power Factorization:	7%	33/500 [00:14<03:14, 2.40it/s]
Power Factorization:	7%	34/500 [00:14<03:08, 2.47it/s]
Power Factorization:	7%	35/500 [00:14<03:05, 2.50it/s]
Power Factorization:	7%	36/500 [00:15<03:07, 2.47it/s]
Power Factorization:	7%	37/500 [00:15<03:06, 2.48it/s]
Power Factorization:	8%	38/500 [00:16<03:03, 2.51it/s]
Power Factorization:	8%	39/500 [00:16<02:58, 2.58it/s]
Power Factorization:	8%	40/500 [00:16<02:57, 2.60it/s]
Power Factorization:	8%	41/500 [00:17<02:54, 2.63it/s]
Power Factorization:	8%	42/500 [00:17<02:53, 2.64it/s]
Power Factorization:	9%	43/500 [00:17<02:52, 2.65it/s]
Power Factorization:	9%	44/500 [00:18<02:53, 2.63it/s]
Power Factorization:	9%	45/500 [00:18<02:54, 2.61it/s]
Power Factorization:	9%	46/500 [00:19<02:50, 2.67it/s]
Power Factorization:	9%	47/500 [00:19<02:49, 2.67it/s]
Power Factorization:	10%	48/500 [00:19<02:49, 2.66it/s]
Power Factorization:	10%	49/500 [00:20<02:56, 2.56it/s]
Power Factorization:	10%	50/500 [00:20<03:05, 2.42it/s]
Power Factorization:	10%	51/500 [00:21<03:00, 2.49it/s]
Power Factorization:	10%	52/500 [00:21<03:00, 2.49it/s]
Power Factorization:	11%	53/500 [00:21<02:55, 2.55it/s]
Power Factorization:	11%	54/500 [00:22<02:56, 2.52it/s]
Power Factorization:	11%	55/500 [00:22<03:00, 2.46it/s]
Power Factorization:	11%	56/500 [00:23<03:04, 2.40it/s]

Power Factorization: 11%	57/500 [00:23<03:01, 2.44it/s]
Power Factorization: 12%	58/500 [00:23<03:02, 2.42it/s]
Power Factorization: 12%	59/500 [00:24<02:57, 2.49it/s]
Power Factorization: 12%	60/500 [00:24<02:57, 2.48it/s]
Power Factorization: 12%	61/500 [00:25<02:55, 2.51it/s]
Power Factorization: 12%	62/500 [00:25<02:51, 2.55it/s]
Power Factorization: 13%	63/500 [00:25<02:51, 2.54it/s]
Power Factorization: 13%	64/500 [00:26<02:54, 2.49it/s]
Power Factorization: 13%	65/500 [00:26<02:57, 2.44it/s]
Power Factorization: 13%	66/500 [00:27<02:55, 2.47it/s]
Power Factorization: 13%	67/500 [00:27<03:00, 2.39it/s]
Power Factorization: 14%	68/500 [00:27<03:01, 2.38it/s]
Power Factorization: 14%	69/500 [00:28<03:08, 2.29it/s]
Power Factorization: 14%	70/500 [00:28<03:12, 2.23it/s]
Power Factorization: 14%	71/500 [00:29<03:05, 2.32it/s]
Power Factorization: 14%	72/500 [00:29<03:00, 2.37it/s]
Power Factorization: 15%	73/500 [00:30<02:56, 2.42it/s]
Power Factorization: 15%	74/500 [00:30<02:53, 2.45it/s]
Power Factorization: 15%	75/500 [00:30<02:53, 2.44it/s]
Power Factorization: 15%	76/500 [00:31<02:51, 2.48it/s]
Power Factorization: 15%	77/500 [00:31<02:52, 2.45it/s]
Power Factorization: 16%	78/500 [00:32<04:17, 1.64it/s]
Power Factorization: 16%	79/500 [00:33<04:21, 1.61it/s]
Power Factorization: 16%	80/500 [00:33<03:58, 1.76it/s]

Power Factorization: 16%	81/500 [00:34<03:39, 1.91it/s]
Power Factorization: 16%	82/500 [00:34<03:25, 2.03it/s]
Power Factorization: 17%	83/500 [00:35<03:16, 2.12it/s]
Power Factorization: 17%	84/500 [00:35<03:07, 2.22it/s]
Power Factorization: 17%	85/500 [00:36<03:14, 2.13it/s]
Power Factorization: 17%	86/500 [00:36<03:18, 2.08it/s]
Power Factorization: 17%	87/500 [00:36<03:10, 2.16it/s]
Power Factorization: 18%	88/500 [00:37<03:08, 2.19it/s]
Power Factorization: 18%	89/500 [00:37<03:01, 2.26it/s]
Power Factorization: 18%	90/500 [00:38<02:49, 2.42it/s]
Power Factorization: 18%	91/500 [00:38<02:46, 2.46it/s]
Power Factorization: 18%	92/500 [00:38<02:41, 2.53it/s]
Power Factorization: 19%	93/500 [00:39<02:41, 2.53it/s]
Power Factorization: 19%	94/500 [00:39<02:44, 2.47it/s]
Power Factorization: 19%	95/500 [00:40<02:44, 2.46it/s]
Power Factorization: 19%	96/500 [00:40<02:58, 2.27it/s]
Power Factorization: 19%	97/500 [00:41<03:17, 2.04it/s]
Power Factorization: 20%	98/500 [00:41<03:19, 2.02it/s]
Power Factorization: 20%	99/500 [00:42<03:07, 2.14it/s]
Power Factorization: 20%	100/500 [00:42<02:57, 2.25it/s]
Power Factorization: 20%	101/500 [00:42<02:51, 2.33it/s]
Power Factorization: 20%	102/500 [00:43<02:47, 2.38it/s]
Power Factorization: 21%	103/500 [00:43<02:42, 2.44it/s]
Power Factorization: 21%	104/500 [00:44<02:44, 2.40it/s]

Power Factorization: 21%	105/500 [00:44<03:02, 2.16it/s]
Power Factorization: 21%	106/500 [00:45<02:50, 2.31it/s]
Power Factorization: 21%	107/500 [00:45<02:45, 2.37it/s]
Power Factorization: 22%	108/500 [00:46<02:53, 2.26it/s]
Power Factorization: 22%	109/500 [00:46<02:44, 2.38it/s]
Power Factorization: 22%	110/500 [00:46<02:44, 2.37it/s]
Power Factorization: 22%	111/500 [00:47<02:48, 2.31it/s]
Power Factorization: 22%	112/500 [00:47<02:51, 2.26it/s]
Power Factorization: 23%	113/500 [00:48<02:47, 2.32it/s]
Power Factorization: 23%	114/500 [00:48<02:42, 2.38it/s]
Power Factorization: 23%	115/500 [00:48<02:43, 2.36it/s]
Power Factorization: 23%	116/500 [00:49<02:42, 2.36it/s]
Power Factorization: 23%	117/500 [00:49<02:45, 2.31it/s]
Power Factorization: 24%	118/500 [00:50<02:48, 2.26it/s]
Power Factorization: 24%	119/500 [00:51<03:19, 1.91it/s]
Power Factorization: 24%	120/500 [00:51<03:20, 1.90it/s]
Power Factorization: 24%	121/500 [00:52<03:17, 1.92it/s]
Power Factorization: 24%	122/500 [00:52<03:02, 2.08it/s]
Power Factorization: 25%	123/500 [00:52<02:51, 2.20it/s]
Power Factorization: 25%	124/500 [00:53<02:47, 2.25it/s]
Power Factorization: 25%	125/500 [00:53<02:40, 2.33it/s]
Power Factorization: 25%	126/500 [00:54<02:37, 2.37it/s]
Power Factorization: 25%	127/500 [00:54<02:42, 2.29it/s]
Power Factorization: 26%	128/500 [00:55<02:46, 2.23it/s]

Power Factorization: 26%	129/500 [00:55<02:42, 2.29it/s]
Power Factorization: 26%	130/500 [00:55<02:34, 2.39it/s]
Power Factorization: 26%	131/500 [00:56<02:27, 2.50it/s]
Power Factorization: 26%	132/500 [00:56<02:21, 2.59it/s]
Power Factorization: 27%	133/500 [00:56<02:25, 2.52it/s]
Power Factorization: 27%	134/500 [00:57<02:21, 2.59it/s]
Power Factorization: 27%	135/500 [00:57<02:20, 2.60it/s]
Power Factorization: 27%	136/500 [00:58<02:14, 2.70it/s]
Power Factorization: 27%	137/500 [00:58<02:15, 2.67it/s]
Power Factorization: 28%	138/500 [00:58<02:14, 2.68it/s]
Power Factorization: 28%	139/500 [00:59<02:14, 2.68it/s]
Power Factorization: 28%	140/500 [00:59<02:14, 2.68it/s]
Power Factorization: 28%	141/500 [00:59<02:13, 2.69it/s]
Power Factorization: 28%	142/500 [01:00<02:14, 2.67it/s]
Power Factorization: 29%	143/500 [01:00<02:09, 2.76it/s]
Power Factorization: 29%	144/500 [01:00<02:10, 2.74it/s]
Power Factorization: 29%	145/500 [01:01<02:07, 2.78it/s]
Power Factorization: 29%	146/500 [01:01<02:06, 2.80it/s]
Power Factorization: 29%	147/500 [01:02<02:06, 2.78it/s]
Power Factorization: 30%	148/500 [01:02<02:06, 2.78it/s]
Power Factorization: 30%	149/500 [01:02<02:09, 2.71it/s]
Power Factorization: 30%	150/500 [01:03<02:06, 2.76it/s]
Power Factorization: 30%	151/500 [01:03<02:07, 2.73it/s]
Power Factorization: 30%	152/500 [01:03<02:04, 2.80it/s]

Power Factorization: 31%	153/500 [01:04<02:01, 2.85it/s]
Power Factorization: 31%	154/500 [01:04<01:58, 2.93it/s]
Power Factorization: 31%	155/500 [01:04<01:59, 2.89it/s]
Power Factorization: 31%	156/500 [01:05<02:01, 2.83it/s]
Power Factorization: 31%	157/500 [01:05<02:01, 2.83it/s]
Power Factorization: 32%	158/500 [01:05<02:02, 2.80it/s]
Power Factorization: 32%	159/500 [01:06<02:04, 2.73it/s]
Power Factorization: 32%	160/500 [01:06<02:02, 2.77it/s]
Power Factorization: 32%	161/500 [01:07<02:02, 2.78it/s]
Power Factorization: 32%	162/500 [01:07<02:01, 2.79it/s]
Power Factorization: 33%	163/500 [01:07<02:03, 2.72it/s]
Power Factorization: 33%	164/500 [01:08<02:03, 2.72it/s]
Power Factorization: 33%	165/500 [01:08<02:01, 2.76it/s]
Power Factorization: 33%	166/500 [01:08<02:01, 2.75it/s]
Power Factorization: 33%	167/500 [01:09<02:05, 2.64it/s]
Power Factorization: 34%	168/500 [01:09<02:04, 2.67it/s]
Power Factorization: 34%	169/500 [01:10<02:11, 2.51it/s]
Power Factorization: 34%	170/500 [01:10<02:09, 2.54it/s]
Power Factorization: 34%	171/500 [01:10<02:05, 2.61it/s]
Power Factorization: 34%	172/500 [01:11<02:01, 2.69it/s]
Power Factorization: 35%	173/500 [01:11<02:02, 2.68it/s]
Power Factorization: 35%	174/500 [01:11<02:02, 2.65it/s]
Power Factorization: 35%	175/500 [01:12<02:08, 2.53it/s]
Power Factorization: 35%	176/500 [01:12<02:04, 2.61it/s]

Power Factorization: 35%	177/500 [01:13<02:15, 2.39it/s]
Power Factorization: 36%	178/500 [01:13<02:08, 2.50it/s]
Power Factorization: 36%	179/500 [01:13<02:05, 2.56it/s]
Power Factorization: 36%	180/500 [01:14<02:01, 2.63it/s]
Power Factorization: 36%	181/500 [01:14<01:58, 2.69it/s]
Power Factorization: 36%	182/500 [01:15<02:00, 2.65it/s]
Power Factorization: 37%	183/500 [01:15<01:59, 2.65it/s]
Power Factorization: 37%	184/500 [01:15<01:56, 2.70it/s]
Power Factorization: 37%	185/500 [01:16<01:55, 2.73it/s]
Power Factorization: 37%	186/500 [01:16<01:56, 2.68it/s]
Power Factorization: 37%	187/500 [01:16<02:01, 2.58it/s]
Power Factorization: 38%	188/500 [01:17<01:58, 2.63it/s]
Power Factorization: 38%	189/500 [01:17<01:54, 2.71it/s]
Power Factorization: 38%	190/500 [01:18<01:52, 2.77it/s]
Power Factorization: 38%	191/500 [01:18<01:50, 2.81it/s]
Power Factorization: 38%	192/500 [01:18<01:49, 2.81it/s]
Power Factorization: 39%	193/500 [01:19<01:53, 2.72it/s]
Power Factorization: 39%	194/500 [01:19<01:52, 2.72it/s]
Power Factorization: 39%	195/500 [01:19<01:49, 2.78it/s]
Power Factorization: 39%	196/500 [01:20<01:51, 2.72it/s]
Power Factorization: 39%	197/500 [01:20<01:47, 2.81it/s]
Power Factorization: 40%	198/500 [01:20<01:47, 2.80it/s]
Power Factorization: 40%	199/500 [01:21<01:48, 2.78it/s]
Power Factorization: 40%	200/500 [01:21<01:50, 2.71it/s]

Power Factorization: 40%	201/500 [01:22<01:52, 2.66it/s]
Power Factorization: 40%	202/500 [01:22<01:50, 2.69it/s]
Power Factorization: 41%	203/500 [01:22<01:48, 2.74it/s]
Power Factorization: 41%	204/500 [01:23<01:51, 2.66it/s]
Power Factorization: 41%	205/500 [01:23<01:57, 2.50it/s]
Power Factorization: 41%	206/500 [01:23<01:52, 2.60it/s]
Power Factorization: 41%	207/500 [01:24<01:53, 2.59it/s]
Power Factorization: 42%	208/500 [01:24<01:57, 2.49it/s]
Power Factorization: 42%	209/500 [01:25<01:54, 2.53it/s]
Power Factorization: 42%	210/500 [01:25<01:49, 2.64it/s]
Power Factorization: 42%	211/500 [01:25<01:46, 2.70it/s]
Power Factorization: 42%	212/500 [01:26<01:46, 2.71it/s]
Power Factorization: 43%	213/500 [01:26<01:47, 2.67it/s]
Power Factorization: 43%	214/500 [01:26<01:45, 2.72it/s]
Power Factorization: 43%	215/500 [01:27<01:42, 2.77it/s]
Power Factorization: 43%	216/500 [01:27<01:41, 2.79it/s]
Power Factorization: 43%	217/500 [01:28<01:43, 2.74it/s]
Power Factorization: 44%	218/500 [01:28<01:41, 2.77it/s]
Power Factorization: 44%	219/500 [01:28<01:42, 2.74it/s]
Power Factorization: 44%	220/500 [01:29<01:47, 2.59it/s]
Power Factorization: 44%	221/500 [01:29<01:46, 2.63it/s]
Power Factorization: 44%	222/500 [01:29<01:47, 2.60it/s]
Power Factorization: 45%	223/500 [01:30<01:46, 2.60it/s]
Power Factorization: 45%	224/500 [01:30<01:47, 2.58it/s]

Power Factorization: 45%	225/500 [01:31<01:44, 2.63it/s]
Power Factorization: 45%	226/500 [01:31<01:41, 2.69it/s]
Power Factorization: 45%	227/500 [01:31<01:40, 2.71it/s]
Power Factorization: 46%	228/500 [01:32<01:37, 2.79it/s]
Power Factorization: 46%	229/500 [01:32<01:43, 2.62it/s]
Power Factorization: 46%	230/500 [01:32<01:42, 2.63it/s]
Power Factorization: 46%	231/500 [01:33<01:41, 2.66it/s]
Power Factorization: 46%	232/500 [01:33<01:43, 2.59it/s]
Power Factorization: 47%	233/500 [01:34<01:42, 2.60it/s]
Power Factorization: 47%	234/500 [01:34<01:42, 2.59it/s]
Power Factorization: 47%	235/500 [01:34<01:41, 2.62it/s]
Power Factorization: 47%	236/500 [01:35<01:45, 2.50it/s]
Power Factorization: 47%	237/500 [01:35<01:42, 2.57it/s]
Power Factorization: 48%	238/500 [01:36<01:39, 2.62it/s]
Power Factorization: 48%	239/500 [01:36<01:37, 2.69it/s]
Power Factorization: 48%	240/500 [01:36<01:33, 2.78it/s]
Power Factorization: 48%	241/500 [01:37<01:33, 2.76it/s]
Power Factorization: 48%	242/500 [01:37<01:36, 2.67it/s]
Power Factorization: 49%	243/500 [01:37<01:38, 2.60it/s]
Power Factorization: 49%	244/500 [01:38<01:36, 2.64it/s]
Power Factorization: 49%	245/500 [01:38<01:38, 2.60it/s]
Power Factorization: 49%	246/500 [01:39<01:37, 2.61it/s]
Power Factorization: 49%	247/500 [01:39<01:36, 2.62it/s]
Power Factorization: 50%	248/500 [01:39<01:31, 2.75it/s]

Power Factorization: 50%	249/500 [01:40<01:30, 2.77it/s]
Power Factorization: 50%	250/500 [01:40<01:29, 2.79it/s]
Power Factorization: 50%	251/500 [01:40<01:29, 2.78it/s]
Power Factorization: 50%	252/500 [01:41<01:33, 2.64it/s]
Power Factorization: 51%	253/500 [01:41<01:32, 2.66it/s]
Power Factorization: 51%	254/500 [01:42<01:35, 2.59it/s]
Power Factorization: 51%	255/500 [01:42<01:31, 2.69it/s]
Power Factorization: 51%	256/500 [01:42<01:34, 2.59it/s]
Power Factorization: 51%	257/500 [01:43<01:35, 2.53it/s]
Power Factorization: 52%	258/500 [01:43<01:36, 2.50it/s]
Power Factorization: 52%	259/500 [01:44<01:37, 2.48it/s]
Power Factorization: 52%	260/500 [01:44<01:34, 2.54it/s]
Power Factorization: 52%	261/500 [01:44<01:33, 2.57it/s]
Power Factorization: 52%	262/500 [01:45<01:33, 2.55it/s]
Power Factorization: 53%	263/500 [01:45<01:30, 2.61it/s]
Power Factorization: 53%	264/500 [01:45<01:28, 2.65it/s]
Power Factorization: 53%	265/500 [01:46<01:28, 2.67it/s]
Power Factorization: 53%	266/500 [01:46<01:26, 2.72it/s]
Power Factorization: 53%	267/500 [01:47<01:26, 2.70it/s]
Power Factorization: 54%	268/500 [01:47<01:25, 2.72it/s]
Power Factorization: 54%	269/500 [01:47<01:26, 2.68it/s]
Power Factorization: 54%	270/500 [01:48<01:28, 2.59it/s]
Power Factorization: 54%	271/500 [01:48<01:31, 2.51it/s]
Power Factorization: 54%	272/500 [01:48<01:26, 2.63it/s]

Power Factorization: 55%	273/500 [01:49<01:24, 2.68it/s]
Power Factorization: 55%	274/500 [01:49<01:23, 2.70it/s]
Power Factorization: 55%	275/500 [01:50<01:22, 2.72it/s]
Power Factorization: 55%	276/500 [01:50<01:23, 2.69it/s]
Power Factorization: 55%	277/500 [01:50<01:23, 2.68it/s]
Power Factorization: 56%	278/500 [01:51<01:23, 2.65it/s]
Power Factorization: 56%	279/500 [01:51<01:23, 2.66it/s]
Power Factorization: 56%	280/500 [01:51<01:20, 2.72it/s]
Power Factorization: 56%	281/500 [01:52<01:21, 2.69it/s]
Power Factorization: 56%	282/500 [01:52<01:18, 2.76it/s]
Power Factorization: 57%	283/500 [01:52<01:18, 2.77it/s]
Power Factorization: 57%	284/500 [01:53<01:17, 2.78it/s]
Power Factorization: 57%	285/500 [01:53<01:18, 2.74it/s]
Power Factorization: 57%	286/500 [01:54<01:17, 2.77it/s]
Power Factorization: 57%	287/500 [01:54<01:15, 2.81it/s]
Power Factorization: 58%	288/500 [01:54<01:14, 2.86it/s]
Power Factorization: 58%	289/500 [01:55<01:14, 2.84it/s]
Power Factorization: 58%	290/500 [01:55<01:15, 2.77it/s]
Power Factorization: 58%	291/500 [01:55<01:16, 2.72it/s]
Power Factorization: 58%	292/500 [01:56<01:15, 2.76it/s]
Power Factorization: 59%	293/500 [01:56<01:15, 2.75it/s]
Power Factorization: 59%	294/500 [01:56<01:14, 2.75it/s]
Power Factorization: 59%	295/500 [01:57<01:14, 2.73it/s]
Power Factorization: 59%	296/500 [01:57<01:19, 2.57it/s]

Power Factorization: 59%	297/500 [01:58<01:16, 2.66it/s]
Power Factorization: 60%	298/500 [01:58<01:15, 2.66it/s]
Power Factorization: 60%	299/500 [01:58<01:13, 2.73it/s]
Power Factorization: 60%	300/500 [01:59<01:12, 2.75it/s]
Power Factorization: 60%	301/500 [01:59<01:13, 2.69it/s]
Power Factorization: 60%	302/500 [01:59<01:14, 2.64it/s]
Power Factorization: 61%	303/500 [02:00<01:12, 2.74it/s]
Power Factorization: 61%	304/500 [02:00<01:11, 2.75it/s]
Power Factorization: 61%	305/500 [02:01<01:14, 2.63it/s]
Power Factorization: 61%	306/500 [02:01<01:13, 2.63it/s]
Power Factorization: 61%	307/500 [02:01<01:10, 2.74it/s]
Power Factorization: 62%	308/500 [02:02<01:09, 2.76it/s]
Power Factorization: 62%	309/500 [02:02<01:09, 2.75it/s]
Power Factorization: 62%	310/500 [02:02<01:08, 2.79it/s]
Power Factorization: 62%	311/500 [02:03<01:07, 2.78it/s]
Power Factorization: 62%	312/500 [02:03<01:10, 2.68it/s]
Power Factorization: 63%	313/500 [02:04<01:12, 2.59it/s]
Power Factorization: 63%	314/500 [02:04<01:11, 2.60it/s]
Power Factorization: 63%	315/500 [02:04<01:11, 2.59it/s]
Power Factorization: 63%	316/500 [02:05<01:10, 2.62it/s]
Power Factorization: 63%	317/500 [02:05<01:10, 2.58it/s]
Power Factorization: 64%	318/500 [02:05<01:12, 2.50it/s]
Power Factorization: 64%	319/500 [02:06<01:08, 2.65it/s]
Power Factorization: 64%	320/500 [02:06<01:07, 2.65it/s]

Power Factorization: 64%	321/500 [02:07<01:05, 2.74it/s]
Power Factorization: 64%	322/500 [02:07<01:08, 2.62it/s]
Power Factorization: 65%	323/500 [02:07<01:05, 2.72it/s]
Power Factorization: 65%	324/500 [02:08<01:03, 2.76it/s]
Power Factorization: 65%	325/500 [02:08<01:03, 2.77it/s]
Power Factorization: 65%	326/500 [02:08<01:02, 2.77it/s]
Power Factorization: 65%	327/500 [02:09<01:02, 2.78it/s]
Power Factorization: 66%	328/500 [02:09<01:00, 2.85it/s]
Power Factorization: 66%	329/500 [02:09<01:02, 2.75it/s]
Power Factorization: 66%	330/500 [02:10<01:02, 2.72it/s]
Power Factorization: 66%	331/500 [02:10<01:00, 2.78it/s]
Power Factorization: 66%	332/500 [02:10<00:58, 2.88it/s]
Power Factorization: 67%	333/500 [02:11<00:57, 2.91it/s]
Power Factorization: 67%	334/500 [02:11<00:56, 2.96it/s]
Power Factorization: 67%	335/500 [02:11<00:55, 2.96it/s]
Power Factorization: 67%	336/500 [02:12<00:55, 2.98it/s]
Power Factorization: 67%	337/500 [02:12<00:55, 2.91it/s]
Power Factorization: 68%	338/500 [02:13<00:55, 2.92it/s]
Power Factorization: 68%	339/500 [02:13<00:54, 2.95it/s]
Power Factorization: 68%	340/500 [02:13<00:55, 2.88it/s]
Power Factorization: 68%	341/500 [02:14<00:53, 2.96it/s]
Power Factorization: 68%	342/500 [02:14<00:54, 2.89it/s]
Power Factorization: 69%	343/500 [02:14<00:56, 2.77it/s]
Power Factorization: 69%	344/500 [02:15<00:58, 2.65it/s]

Power Factorization: 69%	345/500 [02:15<00:56, 2.73it/s]
Power Factorization: 69%	346/500 [02:15<00:54, 2.81it/s]
Power Factorization: 69%	347/500 [02:16<00:54, 2.82it/s]
Power Factorization: 70%	348/500 [02:16<00:54, 2.78it/s]
Power Factorization: 70%	349/500 [02:16<00:53, 2.81it/s]
Power Factorization: 70%	350/500 [02:17<00:52, 2.87it/s]
Power Factorization: 70%	351/500 [02:17<00:49, 3.01it/s]
Power Factorization: 70%	352/500 [02:17<00:47, 3.10it/s]
Power Factorization: 71%	353/500 [02:18<00:47, 3.11it/s]
Power Factorization: 71%	354/500 [02:18<00:48, 3.02it/s]
Power Factorization: 71%	355/500 [02:18<00:48, 2.98it/s]
Power Factorization: 71%	356/500 [02:19<00:51, 2.79it/s]
Power Factorization: 71%	357/500 [02:19<00:48, 2.92it/s]
Power Factorization: 72%	358/500 [02:19<00:49, 2.89it/s]
Power Factorization: 72%	359/500 [02:20<00:50, 2.82it/s]
Power Factorization: 72%	360/500 [02:20<00:49, 2.84it/s]
Power Factorization: 72%	361/500 [02:21<00:48, 2.86it/s]
Power Factorization: 72%	362/500 [02:21<00:48, 2.86it/s]
Power Factorization: 73%	363/500 [02:21<00:48, 2.80it/s]
Power Factorization: 73%	364/500 [02:22<00:48, 2.83it/s]
Power Factorization: 73%	365/500 [02:22<00:49, 2.75it/s]
Power Factorization: 73%	366/500 [02:22<00:48, 2.78it/s]
Power Factorization: 73%	367/500 [02:23<00:48, 2.72it/s]
Power Factorization: 74%	368/500 [02:23<00:49, 2.69it/s]

Power Factorization: 74%	369/500 [02:23<00:48,	2.68it/s]
Power Factorization: 74%	370/500 [02:24<00:48,	2.70it/s]
Power Factorization: 74%	371/500 [02:24<00:46,	2.75it/s]
Power Factorization: 74%	372/500 [02:25<00:46,	2.75it/s]
Power Factorization: 75%	373/500 [02:25<00:45,	2.78it/s]
Power Factorization: 75%	374/500 [02:25<00:49,	2.57it/s]
Power Factorization: 75%	375/500 [02:26<00:48,	2.59it/s]
Power Factorization: 75%	376/500 [02:26<00:50,	2.47it/s]
Power Factorization: 75%	377/500 [02:27<00:48,	2.52it/s]
Power Factorization: 76%	378/500 [02:27<00:46,	2.63it/s]
Power Factorization: 76%	379/500 [02:27<00:45,	2.64it/s]
Power Factorization: 76%	380/500 [02:28<00:44,	2.69it/s]
Power Factorization: 76%	381/500 [02:28<00:43,	2.71it/s]
Power Factorization: 76%	382/500 [02:28<00:44,	2.66it/s]
Power Factorization: 77%	383/500 [02:29<00:49,	2.34it/s]
Power Factorization: 77%	384/500 [02:29<00:46,	2.48it/s]
Power Factorization: 77%	385/500 [02:30<00:44,	2.57it/s]
Power Factorization: 77%	386/500 [02:30<00:43,	2.63it/s]
Power Factorization: 77%	387/500 [02:30<00:42,	2.66it/s]
Power Factorization: 78%	388/500 [02:31<00:42,	2.64it/s]
Power Factorization: 78%	389/500 [02:31<00:41,	2.68it/s]
Power Factorization: 78%	390/500 [02:32<00:41,	2.63it/s]
Power Factorization: 78%	391/500 [02:32<00:40,	2.67it/s]
Power Factorization: 78%	392/500 [02:32<00:39,	2.71it/s]

Power Factorization: 79%	393/500 [02:33<00:39, 2.72it/s]
Power Factorization: 79%	394/500 [02:33<00:39, 2.71it/s]
Power Factorization: 79%	395/500 [02:33<00:38, 2.72it/s]
Power Factorization: 79%	396/500 [02:34<00:38, 2.72it/s]
Power Factorization: 79%	397/500 [02:34<00:37, 2.72it/s]
Power Factorization: 80%	398/500 [02:34<00:37, 2.75it/s]
Power Factorization: 80%	399/500 [02:35<00:37, 2.71it/s]
Power Factorization: 80%	400/500 [02:35<00:37, 2.64it/s]
Power Factorization: 80%	401/500 [02:36<00:37, 2.62it/s]
Power Factorization: 80%	402/500 [02:36<00:37, 2.63it/s]
Power Factorization: 81%	403/500 [02:36<00:35, 2.72it/s]
Power Factorization: 81%	404/500 [02:37<00:36, 2.65it/s]
Power Factorization: 81%	405/500 [02:37<00:35, 2.67it/s]
Power Factorization: 81%	406/500 [02:37<00:36, 2.57it/s]
Power Factorization: 81%	407/500 [02:38<00:35, 2.65it/s]
Power Factorization: 82%	408/500 [02:38<00:35, 2.57it/s]
Power Factorization: 82%	409/500 [02:39<00:36, 2.51it/s]
Power Factorization: 82%	410/500 [02:39<00:35, 2.54it/s]
Power Factorization: 82%	411/500 [02:39<00:33, 2.62it/s]
Power Factorization: 82%	412/500 [02:40<00:32, 2.70it/s]
Power Factorization: 83%	413/500 [02:40<00:32, 2.70it/s]
Power Factorization: 83%	414/500 [02:41<00:43, 1.97it/s]
Power Factorization: 83%	415/500 [02:41<00:41, 2.05it/s]
Power Factorization: 83%	416/500 [02:42<00:38, 2.18it/s]

Power Factorization: 83%	417/500 [02:42<00:36,	2.28it/s]
Power Factorization: 84%	418/500 [02:43<00:34,	2.40it/s]
Power Factorization: 84%	419/500 [02:43<00:32,	2.48it/s]
Power Factorization: 84%	420/500 [02:43<00:31,	2.56it/s]
Power Factorization: 84%	421/500 [02:44<00:30,	2.60it/s]
Power Factorization: 84%	422/500 [02:44<00:29,	2.64it/s]
Power Factorization: 85%	423/500 [02:44<00:29,	2.64it/s]
Power Factorization: 85%	424/500 [02:45<00:29,	2.58it/s]
Power Factorization: 85%	425/500 [02:45<00:28,	2.65it/s]
Power Factorization: 85%	426/500 [02:46<00:28,	2.63it/s]
Power Factorization: 85%	427/500 [02:46<00:28,	2.54it/s]
Power Factorization: 86%	428/500 [02:46<00:28,	2.49it/s]
Power Factorization: 86%	429/500 [02:47<00:28,	2.50it/s]
Power Factorization: 86%	430/500 [02:47<00:28,	2.49it/s]
Power Factorization: 86%	431/500 [02:48<00:26,	2.57it/s]
Power Factorization: 86%	432/500 [02:48<00:25,	2.62it/s]
Power Factorization: 87%	433/500 [02:48<00:26,	2.53it/s]
Power Factorization: 87%	434/500 [02:49<00:24,	2.64it/s]
Power Factorization: 87%	435/500 [02:49<00:24,	2.68it/s]
Power Factorization: 87%	436/500 [02:49<00:23,	2.68it/s]
Power Factorization: 87%	437/500 [02:50<00:23,	2.70it/s]
Power Factorization: 88%	438/500 [02:50<00:22,	2.78it/s]
Power Factorization: 88%	439/500 [02:50<00:22,	2.75it/s]
Power Factorization: 88%	440/500 [02:51<00:21,	2.75it/s]

Power Factorization: 88%	441/500 [02:51<00:22,	2.63it/s]
Power Factorization: 88%	442/500 [02:52<00:23,	2.47it/s]
Power Factorization: 89%	443/500 [02:52<00:22,	2.52it/s]
Power Factorization: 89%	444/500 [02:52<00:21,	2.58it/s]
Power Factorization: 89%	445/500 [02:53<00:20,	2.65it/s]
Power Factorization: 89%	446/500 [02:53<00:20,	2.67it/s]
Power Factorization: 89%	447/500 [02:54<00:20,	2.62it/s]
Power Factorization: 90%	448/500 [02:54<00:21,	2.45it/s]
Power Factorization: 90%	449/500 [02:54<00:20,	2.44it/s]
Power Factorization: 90%	450/500 [02:55<00:20,	2.48it/s]
Power Factorization: 90%	451/500 [02:55<00:18,	2.59it/s]
Power Factorization: 90%	452/500 [02:56<00:17,	2.69it/s]
Power Factorization: 91%	453/500 [02:56<00:17,	2.64it/s]
Power Factorization: 91%	454/500 [02:56<00:17,	2.58it/s]
Power Factorization: 91%	455/500 [02:57<00:17,	2.62it/s]
Power Factorization: 91%	456/500 [02:57<00:16,	2.65it/s]
Power Factorization: 91%	457/500 [02:57<00:15,	2.69it/s]
Power Factorization: 92%	458/500 [02:58<00:15,	2.73it/s]
Power Factorization: 92%	459/500 [02:58<00:14,	2.74it/s]
Power Factorization: 92%	460/500 [02:58<00:14,	2.80it/s]
Power Factorization: 92%	461/500 [02:59<00:13,	2.81it/s]
Power Factorization: 92%	462/500 [02:59<00:13,	2.80it/s]
Power Factorization: 93%	463/500 [03:00<00:13,	2.76it/s]
Power Factorization: 93%	464/500 [03:00<00:13,	2.68it/s]

Power Factorization: 93%	465/500 [03:00<00:13, 2.61it/s]
Power Factorization: 93%	466/500 [03:01<00:12, 2.65it/s]
Power Factorization: 93%	467/500 [03:01<00:12, 2.68it/s]
Power Factorization: 94%	468/500 [03:02<00:12, 2.63it/s]
Power Factorization: 94%	469/500 [03:02<00:11, 2.71it/s]
Power Factorization: 94%	470/500 [03:02<00:11, 2.61it/s]
Power Factorization: 94%	471/500 [03:03<00:11, 2.62it/s]
Power Factorization: 94%	472/500 [03:03<00:10, 2.68it/s]
Power Factorization: 95%	473/500 [03:03<00:10, 2.63it/s]
Power Factorization: 95%	474/500 [03:04<00:09, 2.70it/s]
Power Factorization: 95%	475/500 [03:04<00:09, 2.70it/s]
Power Factorization: 95%	476/500 [03:04<00:08, 2.75it/s]
Power Factorization: 95%	477/500 [03:05<00:08, 2.71it/s]
Power Factorization: 96%	478/500 [03:05<00:08, 2.74it/s]
Power Factorization: 96%	479/500 [03:06<00:07, 2.71it/s]
Power Factorization: 96%	480/500 [03:06<00:07, 2.61it/s]
Power Factorization: 96%	481/500 [03:06<00:07, 2.65it/s]
Power Factorization: 96%	482/500 [03:07<00:06, 2.70it/s]
Power Factorization: 97%	483/500 [03:07<00:06, 2.72it/s]
Power Factorization: 97%	484/500 [03:07<00:05, 2.74it/s]
Power Factorization: 97%	485/500 [03:08<00:05, 2.71it/s]
Power Factorization: 97%	486/500 [03:08<00:05, 2.64it/s]
Power Factorization: 97%	487/500 [03:09<00:04, 2.70it/s]
Power Factorization: 98%	488/500 [03:09<00:04, 2.68it/s]

Power Factorization: 98%	489/500 [03:09<00:04, 2.74it/s]
Power Factorization: 98%	490/500 [03:10<00:03, 2.78it/s]
Power Factorization: 98%	491/500 [03:10<00:03, 2.70it/s]
Power Factorization: 98%	492/500 [03:10<00:03, 2.63it/s]
Power Factorization: 99%	493/500 [03:11<00:02, 2.66it/s]
Power Factorization: 99%	494/500 [03:11<00:02, 2.60it/s]
Power Factorization: 99%	495/500 [03:12<00:01, 2.58it/s]
Power Factorization: 99%	496/500 [03:12<00:01, 2.63it/s]
Power Factorization: 99%	497/500 [03:12<00:01, 2.61it/s]
Power Factorization: 100%	498/500 [03:13<00:00, 2.55it/s]
Power Factorization: 100%	499/500 [03:13<00:00, 2.59it/s]
Power Factorization: 100%	500/500 [03:13<00:00, 2.58it/s]
Cross Validation: 40%	2/5 [06:56<10:17, 205.90s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:00, 2.76it/s]
Power Factorization: 0%	2/500 [00:00<03:02, 2.73it/s]
Power Factorization: 1%	3/500 [00:01<02:58, 2.78it/s]
Power Factorization: 1%	4/500 [00:01<02:59, 2.76it/s]
Power Factorization: 1%	5/500 [00:01<03:01, 2.73it/s]
Power Factorization: 1%	6/500 [00:02<02:56, 2.80it/s]
Power Factorization: 1%	7/500 [00:02<02:58, 2.77it/s]
Power Factorization: 2%	8/500 [00:02<03:00, 2.73it/s]
Power Factorization: 2%	9/500 [00:03<03:13, 2.54it/s]
Power Factorization: 2%	10/500 [00:03<03:06, 2.63it/s]

Power Factorization:	2%	11/500	[00:04<03:01,	2.70it/s]
Power Factorization:	2%	12/500	[00:04<03:02,	2.68it/s]
Power Factorization:	3%	13/500	[00:04<03:06,	2.61it/s]
Power Factorization:	3%	14/500	[00:05<03:08,	2.58it/s]
Power Factorization:	3%	15/500	[00:05<03:05,	2.62it/s]
Power Factorization:	3%	16/500	[00:06<03:15,	2.48it/s]
Power Factorization:	3%	17/500	[00:06<03:15,	2.47it/s]
Power Factorization:	4%	18/500	[00:06<03:09,	2.54it/s]
Power Factorization:	4%	19/500	[00:07<03:05,	2.60it/s]
Power Factorization:	4%	20/500	[00:07<03:01,	2.65it/s]
Power Factorization:	4%	21/500	[00:07<03:02,	2.62it/s]
Power Factorization:	4%	22/500	[00:08<03:04,	2.60it/s]
Power Factorization:	5%	23/500	[00:08<02:58,	2.68it/s]
Power Factorization:	5%	24/500	[00:09<02:56,	2.69it/s]
Power Factorization:	5%	25/500	[00:09<02:50,	2.79it/s]
Power Factorization:	5%	26/500	[00:09<02:46,	2.85it/s]
Power Factorization:	5%	27/500	[00:10<02:49,	2.80it/s]
Power Factorization:	6%	28/500	[00:10<02:50,	2.78it/s]
Power Factorization:	6%	29/500	[00:10<02:44,	2.86it/s]
Power Factorization:	6%	30/500	[00:11<02:44,	2.85it/s]
Power Factorization:	6%	31/500	[00:11<02:41,	2.91it/s]
Power Factorization:	6%	32/500	[00:11<02:39,	2.93it/s]
Power Factorization:	7%	33/500	[00:12<02:43,	2.86it/s]
Power Factorization:	7%	34/500	[00:12<02:44,	2.84it/s]

Power Factorization:	7%	35/500 [00:12<02:44, 2.82it/s]
Power Factorization:	7%	36/500 [00:13<02:40, 2.89it/s]
Power Factorization:	7%	37/500 [00:13<02:39, 2.90it/s]
Power Factorization:	8%	38/500 [00:13<02:39, 2.90it/s]
Power Factorization:	8%	39/500 [00:14<02:37, 2.93it/s]
Power Factorization:	8%	40/500 [00:14<02:39, 2.88it/s]
Power Factorization:	8%	41/500 [00:15<02:55, 2.61it/s]
Power Factorization:	8%	42/500 [00:15<02:57, 2.57it/s]
Power Factorization:	9%	43/500 [00:15<02:55, 2.61it/s]
Power Factorization:	9%	44/500 [00:16<02:53, 2.63it/s]
Power Factorization:	9%	45/500 [00:16<02:50, 2.67it/s]
Power Factorization:	9%	46/500 [00:16<02:45, 2.75it/s]
Power Factorization:	9%	47/500 [00:17<02:42, 2.80it/s]
Power Factorization:	10%	48/500 [00:17<02:44, 2.75it/s]
Power Factorization:	10%	49/500 [00:18<02:44, 2.74it/s]
Power Factorization:	10%	50/500 [00:18<02:38, 2.84it/s]
Power Factorization:	10%	51/500 [00:18<02:40, 2.80it/s]
Power Factorization:	10%	52/500 [00:18<02:32, 2.93it/s]
Power Factorization:	11%	53/500 [00:19<02:31, 2.95it/s]
Power Factorization:	11%	54/500 [00:19<02:37, 2.83it/s]
Power Factorization:	11%	55/500 [00:20<02:36, 2.84it/s]
Power Factorization:	11%	56/500 [00:20<02:44, 2.69it/s]
Power Factorization:	11%	57/500 [00:20<02:41, 2.74it/s]
Power Factorization:	12%	58/500 [00:21<02:38, 2.78it/s]

Power Factorization: 12%	59/500 [00:21<02:37,	2.80it/s]
Power Factorization: 12%	60/500 [00:21<02:33,	2.87it/s]
Power Factorization: 12%	61/500 [00:22<02:38,	2.77it/s]
Power Factorization: 12%	62/500 [00:22<02:35,	2.82it/s]
Power Factorization: 13%	63/500 [00:22<02:35,	2.80it/s]
Power Factorization: 13%	64/500 [00:23<02:39,	2.73it/s]
Power Factorization: 13%	65/500 [00:23<02:56,	2.47it/s]
Power Factorization: 13%	66/500 [00:24<02:52,	2.51it/s]
Power Factorization: 13%	67/500 [00:24<02:48,	2.56it/s]
Power Factorization: 14%	68/500 [00:24<02:45,	2.61it/s]
Power Factorization: 14%	69/500 [00:25<02:50,	2.53it/s]
Power Factorization: 14%	70/500 [00:25<02:53,	2.48it/s]
Power Factorization: 14%	71/500 [00:26<02:45,	2.59it/s]
Power Factorization: 14%	72/500 [00:26<02:44,	2.61it/s]
Power Factorization: 15%	73/500 [00:26<02:43,	2.61it/s]
Power Factorization: 15%	74/500 [00:27<02:46,	2.56it/s]
Power Factorization: 15%	75/500 [00:27<02:52,	2.47it/s]
Power Factorization: 15%	76/500 [00:28<02:47,	2.53it/s]
Power Factorization: 15%	77/500 [00:28<02:43,	2.59it/s]
Power Factorization: 16%	78/500 [00:28<02:41,	2.61it/s]
Power Factorization: 16%	79/500 [00:29<02:41,	2.61it/s]
Power Factorization: 16%	80/500 [00:29<02:41,	2.60it/s]
Power Factorization: 16%	81/500 [00:29<02:36,	2.67it/s]
Power Factorization: 16%	82/500 [00:30<02:39,	2.63it/s]

Power Factorization: 17%	83/500 [00:30<02:35, 2.68it/s]
Power Factorization: 17%	84/500 [00:31<02:31, 2.74it/s]
Power Factorization: 17%	85/500 [00:31<02:34, 2.69it/s]
Power Factorization: 17%	86/500 [00:31<02:37, 2.64it/s]
Power Factorization: 17%	87/500 [00:32<02:34, 2.67it/s]
Power Factorization: 18%	88/500 [00:32<02:40, 2.56it/s]
Power Factorization: 18%	89/500 [00:33<02:38, 2.60it/s]
Power Factorization: 18%	90/500 [00:33<02:36, 2.63it/s]
Power Factorization: 18%	91/500 [00:33<02:35, 2.63it/s]
Power Factorization: 18%	92/500 [00:34<02:32, 2.67it/s]
Power Factorization: 19%	93/500 [00:34<02:41, 2.53it/s]
Power Factorization: 19%	94/500 [00:34<02:36, 2.60it/s]
Power Factorization: 19%	95/500 [00:35<02:32, 2.66it/s]
Power Factorization: 19%	96/500 [00:35<02:28, 2.73it/s]
Power Factorization: 19%	97/500 [00:36<02:27, 2.73it/s]
Power Factorization: 20%	98/500 [00:36<02:27, 2.72it/s]
Power Factorization: 20%	99/500 [00:36<02:28, 2.70it/s]
Power Factorization: 20%	100/500 [00:37<02:29, 2.68it/s]
Power Factorization: 20%	101/500 [00:37<02:27, 2.70it/s]
Power Factorization: 20%	102/500 [00:37<02:27, 2.70it/s]
Power Factorization: 21%	103/500 [00:38<02:23, 2.77it/s]
Power Factorization: 21%	104/500 [00:38<02:26, 2.70it/s]
Power Factorization: 21%	105/500 [00:39<02:31, 2.61it/s]
Power Factorization: 21%	106/500 [00:39<02:26, 2.69it/s]

Power Factorization: 21%	107/500 [00:39<02:38, 2.47it/s]
Power Factorization: 22%	108/500 [00:40<02:34, 2.54it/s]
Power Factorization: 22%	109/500 [00:40<02:32, 2.56it/s]
Power Factorization: 22%	110/500 [00:40<02:29, 2.61it/s]
Power Factorization: 22%	111/500 [00:41<02:25, 2.67it/s]
Power Factorization: 22%	112/500 [00:41<02:24, 2.68it/s]
Power Factorization: 23%	113/500 [00:42<02:27, 2.62it/s]
Power Factorization: 23%	114/500 [00:42<02:41, 2.39it/s]
Power Factorization: 23%	115/500 [00:43<02:39, 2.42it/s]
Power Factorization: 23%	116/500 [00:43<02:32, 2.51it/s]
Power Factorization: 23%	117/500 [00:43<02:30, 2.55it/s]
Power Factorization: 24%	118/500 [00:44<02:25, 2.62it/s]
Power Factorization: 24%	119/500 [00:44<02:23, 2.65it/s]
Power Factorization: 24%	120/500 [00:44<02:23, 2.66it/s]
Power Factorization: 24%	121/500 [00:45<02:22, 2.66it/s]
Power Factorization: 24%	122/500 [00:45<02:19, 2.71it/s]
Power Factorization: 25%	123/500 [00:45<02:19, 2.69it/s]
Power Factorization: 25%	124/500 [00:46<02:15, 2.77it/s]
Power Factorization: 25%	125/500 [00:46<02:15, 2.76it/s]
Power Factorization: 25%	126/500 [00:47<02:17, 2.72it/s]
Power Factorization: 25%	127/500 [00:47<02:19, 2.67it/s]
Power Factorization: 26%	128/500 [00:47<02:19, 2.68it/s]
Power Factorization: 26%	129/500 [00:48<02:17, 2.69it/s]
Power Factorization: 26%	130/500 [00:48<02:17, 2.70it/s]

Power Factorization: 26%	131/500 [00:48<02:17, 2.68it/s]
Power Factorization: 26%	132/500 [00:49<02:16, 2.70it/s]
Power Factorization: 27%	133/500 [00:49<02:16, 2.69it/s]
Power Factorization: 27%	134/500 [00:50<02:17, 2.66it/s]
Power Factorization: 27%	135/500 [00:50<02:15, 2.70it/s]
Power Factorization: 27%	136/500 [00:50<02:12, 2.75it/s]
Power Factorization: 27%	137/500 [00:51<02:13, 2.72it/s]
Power Factorization: 28%	138/500 [00:51<02:14, 2.70it/s]
Power Factorization: 28%	139/500 [00:51<02:13, 2.70it/s]
Power Factorization: 28%	140/500 [00:52<02:10, 2.76it/s]
Power Factorization: 28%	141/500 [00:52<02:09, 2.77it/s]
Power Factorization: 28%	142/500 [00:52<02:17, 2.60it/s]
Power Factorization: 29%	143/500 [00:53<02:15, 2.64it/s]
Power Factorization: 29%	144/500 [00:53<02:11, 2.71it/s]
Power Factorization: 29%	145/500 [00:54<02:14, 2.63it/s]
Power Factorization: 29%	146/500 [00:54<02:13, 2.65it/s]
Power Factorization: 29%	147/500 [00:54<02:13, 2.64it/s]
Power Factorization: 30%	148/500 [00:55<02:10, 2.70it/s]
Power Factorization: 30%	149/500 [00:55<02:05, 2.79it/s]
Power Factorization: 30%	150/500 [00:55<02:09, 2.70it/s]
Power Factorization: 30%	151/500 [00:56<02:06, 2.76it/s]
Power Factorization: 30%	152/500 [00:56<02:08, 2.71it/s]
Power Factorization: 31%	153/500 [00:57<02:05, 2.77it/s]
Power Factorization: 31%	154/500 [00:57<02:12, 2.61it/s]

Power Factorization: 31%	155/500 [00:57<02:12, 2.61it/s]
Power Factorization: 31%	156/500 [00:58<02:10, 2.64it/s]
Power Factorization: 31%	157/500 [00:58<02:09, 2.64it/s]
Power Factorization: 32%	158/500 [00:58<02:10, 2.61it/s]
Power Factorization: 32%	159/500 [00:59<02:11, 2.59it/s]
Power Factorization: 32%	160/500 [00:59<02:07, 2.66it/s]
Power Factorization: 32%	161/500 [01:00<02:05, 2.70it/s]
Power Factorization: 32%	162/500 [01:00<02:08, 2.64it/s]
Power Factorization: 33%	163/500 [01:00<02:06, 2.65it/s]
Power Factorization: 33%	164/500 [01:01<02:04, 2.69it/s]
Power Factorization: 33%	165/500 [01:01<02:05, 2.66it/s]
Power Factorization: 33%	166/500 [01:01<02:04, 2.68it/s]
Power Factorization: 33%	167/500 [01:02<02:02, 2.71it/s]
Power Factorization: 34%	168/500 [01:02<02:00, 2.75it/s]
Power Factorization: 34%	169/500 [01:03<02:01, 2.73it/s]
Power Factorization: 34%	170/500 [01:03<01:58, 2.78it/s]
Power Factorization: 34%	171/500 [01:03<01:58, 2.77it/s]
Power Factorization: 34%	172/500 [01:04<02:00, 2.72it/s]
Power Factorization: 35%	173/500 [01:04<02:01, 2.69it/s]
Power Factorization: 35%	174/500 [01:04<02:05, 2.61it/s]
Power Factorization: 35%	175/500 [01:05<02:06, 2.57it/s]
Power Factorization: 35%	176/500 [01:05<02:02, 2.65it/s]
Power Factorization: 35%	177/500 [01:06<02:05, 2.58it/s]
Power Factorization: 36%	178/500 [01:06<02:03, 2.61it/s]

Power Factorization: 36%	179/500 [01:06<02:02,	2.62it/s]
Power Factorization: 36%	180/500 [01:07<02:01,	2.64it/s]
Power Factorization: 36%	181/500 [01:07<02:01,	2.63it/s]
Power Factorization: 36%	182/500 [01:07<01:58,	2.69it/s]
Power Factorization: 37%	183/500 [01:08<01:59,	2.65it/s]
Power Factorization: 37%	184/500 [01:08<02:00,	2.63it/s]
Power Factorization: 37%	185/500 [01:09<01:59,	2.63it/s]
Power Factorization: 37%	186/500 [01:09<01:57,	2.68it/s]
Power Factorization: 37%	187/500 [01:09<01:54,	2.72it/s]
Power Factorization: 38%	188/500 [01:10<01:50,	2.83it/s]
Power Factorization: 38%	189/500 [01:10<01:49,	2.85it/s]
Power Factorization: 38%	190/500 [01:10<01:48,	2.86it/s]
Power Factorization: 38%	191/500 [01:11<01:48,	2.85it/s]
Power Factorization: 38%	192/500 [01:11<01:43,	2.98it/s]
Power Factorization: 39%	193/500 [01:11<01:42,	3.01it/s]
Power Factorization: 39%	194/500 [01:12<01:39,	3.09it/s]
Power Factorization: 39%	195/500 [01:12<01:40,	3.05it/s]
Power Factorization: 39%	196/500 [01:12<01:42,	2.97it/s]
Power Factorization: 39%	197/500 [01:13<01:49,	2.77it/s]
Power Factorization: 40%	198/500 [01:13<01:52,	2.68it/s]
Power Factorization: 40%	199/500 [01:13<01:48,	2.77it/s]
Power Factorization: 40%	200/500 [01:14<01:45,	2.83it/s]
Power Factorization: 40%	201/500 [01:14<01:43,	2.88it/s]
Power Factorization: 40%	202/500 [01:14<01:44,	2.86it/s]

Power Factorization: 41%	203/500 [01:15<01:43, 2.87it/s]
Power Factorization: 41%	204/500 [01:15<01:43, 2.87it/s]
Power Factorization: 41%	205/500 [01:16<01:46, 2.78it/s]
Power Factorization: 41%	206/500 [01:16<01:45, 2.79it/s]
Power Factorization: 41%	207/500 [01:16<01:41, 2.87it/s]
Power Factorization: 42%	208/500 [01:17<01:39, 2.93it/s]
Power Factorization: 42%	209/500 [01:17<01:39, 2.91it/s]
Power Factorization: 42%	210/500 [01:17<01:37, 2.96it/s]
Power Factorization: 42%	211/500 [01:18<01:36, 2.99it/s]
Power Factorization: 42%	212/500 [01:18<01:33, 3.08it/s]
Power Factorization: 43%	213/500 [01:18<01:33, 3.08it/s]
Power Factorization: 43%	214/500 [01:19<01:38, 2.91it/s]
Power Factorization: 43%	215/500 [01:19<01:39, 2.87it/s]
Power Factorization: 43%	216/500 [01:19<01:41, 2.79it/s]
Power Factorization: 43%	217/500 [01:20<01:38, 2.87it/s]
Power Factorization: 44%	218/500 [01:20<01:38, 2.85it/s]
Power Factorization: 44%	219/500 [01:20<01:37, 2.87it/s]
Power Factorization: 44%	220/500 [01:21<01:38, 2.84it/s]
Power Factorization: 44%	221/500 [01:21<01:37, 2.87it/s]
Power Factorization: 44%	222/500 [01:21<01:36, 2.90it/s]
Power Factorization: 45%	223/500 [01:22<01:31, 3.04it/s]
Power Factorization: 45%	224/500 [01:22<01:30, 3.05it/s]
Power Factorization: 45%	225/500 [01:22<01:30, 3.05it/s]
Power Factorization: 45%	226/500 [01:23<01:29, 3.06it/s]

Power Factorization: 45%	227/500 [01:23<01:33, 2.91it/s]
Power Factorization: 46%	228/500 [01:23<01:39, 2.73it/s]
Power Factorization: 46%	229/500 [01:24<01:42, 2.65it/s]
Power Factorization: 46%	230/500 [01:24<01:37, 2.77it/s]
Power Factorization: 46%	231/500 [01:25<01:35, 2.80it/s]
Power Factorization: 46%	232/500 [01:25<01:33, 2.87it/s]
Power Factorization: 47%	233/500 [01:25<01:32, 2.89it/s]
Power Factorization: 47%	234/500 [01:26<01:35, 2.78it/s]
Power Factorization: 47%	235/500 [01:26<01:34, 2.80it/s]
Power Factorization: 47%	236/500 [01:26<01:33, 2.83it/s]
Power Factorization: 47%	237/500 [01:27<01:33, 2.81it/s]
Power Factorization: 48%	238/500 [01:27<01:34, 2.78it/s]
Power Factorization: 48%	239/500 [01:27<01:30, 2.90it/s]
Power Factorization: 48%	240/500 [01:28<01:30, 2.87it/s]
Power Factorization: 48%	241/500 [01:28<01:29, 2.90it/s]
Power Factorization: 48%	242/500 [01:28<01:28, 2.91it/s]
Power Factorization: 49%	243/500 [01:29<01:28, 2.89it/s]
Power Factorization: 49%	244/500 [01:29<01:29, 2.87it/s]
Power Factorization: 49%	245/500 [01:29<01:28, 2.88it/s]
Power Factorization: 49%	246/500 [01:30<01:27, 2.91it/s]
Power Factorization: 49%	247/500 [01:30<01:28, 2.87it/s]
Power Factorization: 50%	248/500 [01:30<01:29, 2.80it/s]
Power Factorization: 50%	249/500 [01:31<01:30, 2.77it/s]
Power Factorization: 50%	250/500 [01:31<01:29, 2.78it/s]

Power Factorization: 50%	251/500 [01:32<01:26, 2.88it/s]
Power Factorization: 50%	252/500 [01:32<01:24, 2.92it/s]
Power Factorization: 51%	253/500 [01:32<01:26, 2.84it/s]
Power Factorization: 51%	254/500 [01:33<01:26, 2.85it/s]
Power Factorization: 51%	255/500 [01:33<01:24, 2.91it/s]
Power Factorization: 51%	256/500 [01:33<01:24, 2.89it/s]
Power Factorization: 51%	257/500 [01:34<01:23, 2.92it/s]
Power Factorization: 52%	258/500 [01:34<01:23, 2.91it/s]
Power Factorization: 52%	259/500 [01:34<01:25, 2.83it/s]
Power Factorization: 52%	260/500 [01:35<01:25, 2.80it/s]
Power Factorization: 52%	261/500 [01:35<01:24, 2.83it/s]
Power Factorization: 52%	262/500 [01:35<01:24, 2.80it/s]
Power Factorization: 53%	263/500 [01:36<01:24, 2.81it/s]
Power Factorization: 53%	264/500 [01:36<01:26, 2.73it/s]
Power Factorization: 53%	265/500 [01:37<01:30, 2.61it/s]
Power Factorization: 53%	266/500 [01:37<01:30, 2.59it/s]
Power Factorization: 53%	267/500 [01:37<01:27, 2.66it/s]
Power Factorization: 54%	268/500 [01:38<01:28, 2.61it/s]
Power Factorization: 54%	269/500 [01:38<01:28, 2.60it/s]
Power Factorization: 54%	270/500 [01:39<01:32, 2.49it/s]
Power Factorization: 54%	271/500 [01:39<01:32, 2.47it/s]
Power Factorization: 54%	272/500 [01:39<01:33, 2.45it/s]
Power Factorization: 55%	273/500 [01:40<01:34, 2.40it/s]
Power Factorization: 55%	274/500 [01:40<01:30, 2.50it/s]

Power Factorization: 55%	275/500 [01:41<01:35, 2.35it/s]
Power Factorization: 55%	276/500 [01:41<01:37, 2.29it/s]
Power Factorization: 55%	277/500 [01:42<01:37, 2.28it/s]
Power Factorization: 56%	278/500 [01:42<01:36, 2.31it/s]
Power Factorization: 56%	279/500 [01:42<01:30, 2.44it/s]
Power Factorization: 56%	280/500 [01:43<01:26, 2.55it/s]
Power Factorization: 56%	281/500 [01:43<01:23, 2.62it/s]
Power Factorization: 56%	282/500 [01:43<01:20, 2.70it/s]
Power Factorization: 57%	283/500 [01:44<01:22, 2.64it/s]
Power Factorization: 57%	284/500 [01:44<01:20, 2.68it/s]
Power Factorization: 57%	285/500 [01:44<01:19, 2.72it/s]
Power Factorization: 57%	286/500 [01:45<01:22, 2.61it/s]
Power Factorization: 57%	287/500 [01:45<01:19, 2.67it/s]
Power Factorization: 58%	288/500 [01:46<01:18, 2.71it/s]
Power Factorization: 58%	289/500 [01:46<01:18, 2.68it/s]
Power Factorization: 58%	290/500 [01:46<01:17, 2.71it/s]
Power Factorization: 58%	291/500 [01:47<01:16, 2.73it/s]
Power Factorization: 58%	292/500 [01:47<01:15, 2.74it/s]
Power Factorization: 59%	293/500 [01:47<01:14, 2.77it/s]
Power Factorization: 59%	294/500 [01:48<01:13, 2.81it/s]
Power Factorization: 59%	295/500 [01:48<01:12, 2.84it/s]
Power Factorization: 59%	296/500 [01:48<01:10, 2.88it/s]
Power Factorization: 59%	297/500 [01:49<01:12, 2.81it/s]
Power Factorization: 60%	298/500 [01:49<01:16, 2.64it/s]

Power Factorization: 60%	299/500 [01:50<01:14, 2.71it/s]
Power Factorization: 60%	300/500 [01:50<01:13, 2.71it/s]
Power Factorization: 60%	301/500 [01:50<01:18, 2.55it/s]
Power Factorization: 60%	302/500 [01:51<01:15, 2.62it/s]
Power Factorization: 61%	303/500 [01:51<01:16, 2.58it/s]
Power Factorization: 61%	304/500 [01:52<01:13, 2.67it/s]
Power Factorization: 61%	305/500 [01:52<01:12, 2.69it/s]
Power Factorization: 61%	306/500 [01:52<01:13, 2.63it/s]
Power Factorization: 61%	307/500 [01:53<01:12, 2.65it/s]
Power Factorization: 62%	308/500 [01:53<01:11, 2.68it/s]
Power Factorization: 62%	309/500 [01:53<01:09, 2.77it/s]
Power Factorization: 62%	310/500 [01:54<01:09, 2.74it/s]
Power Factorization: 62%	311/500 [01:54<01:10, 2.69it/s]
Power Factorization: 62%	312/500 [01:55<01:09, 2.69it/s]
Power Factorization: 63%	313/500 [01:55<01:13, 2.55it/s]
Power Factorization: 63%	314/500 [01:55<01:12, 2.55it/s]
Power Factorization: 63%	315/500 [01:56<01:11, 2.58it/s]
Power Factorization: 63%	316/500 [01:56<01:09, 2.65it/s]
Power Factorization: 63%	317/500 [01:56<01:06, 2.74it/s]
Power Factorization: 64%	318/500 [01:57<01:07, 2.71it/s]
Power Factorization: 64%	319/500 [01:57<01:06, 2.74it/s]
Power Factorization: 64%	320/500 [01:57<01:05, 2.77it/s]
Power Factorization: 64%	321/500 [01:58<01:03, 2.81it/s]
Power Factorization: 64%	322/500 [01:58<01:06, 2.69it/s]

Power Factorization: 65%	323/500 [01:59<01:05, 2.71it/s]
Power Factorization: 65%	324/500 [01:59<01:04, 2.75it/s]
Power Factorization: 65%	325/500 [01:59<01:03, 2.76it/s]
Power Factorization: 65%	326/500 [02:00<01:05, 2.65it/s]
Power Factorization: 65%	327/500 [02:00<01:03, 2.71it/s]
Power Factorization: 66%	328/500 [02:00<01:02, 2.77it/s]
Power Factorization: 66%	329/500 [02:01<01:02, 2.74it/s]
Power Factorization: 66%	330/500 [02:01<01:03, 2.67it/s]
Power Factorization: 66%	331/500 [02:02<01:04, 2.60it/s]
Power Factorization: 66%	332/500 [02:02<01:03, 2.64it/s]
Power Factorization: 67%	333/500 [02:02<01:03, 2.62it/s]
Power Factorization: 67%	334/500 [02:03<01:02, 2.64it/s]
Power Factorization: 67%	335/500 [02:03<01:00, 2.71it/s]
Power Factorization: 67%	336/500 [02:03<01:01, 2.68it/s]
Power Factorization: 67%	337/500 [02:04<00:59, 2.73it/s]
Power Factorization: 68%	338/500 [02:04<00:58, 2.76it/s]
Power Factorization: 68%	339/500 [02:05<00:57, 2.79it/s]
Power Factorization: 68%	340/500 [02:05<00:57, 2.78it/s]
Power Factorization: 68%	341/500 [02:05<00:58, 2.70it/s]
Power Factorization: 68%	342/500 [02:06<00:59, 2.65it/s]
Power Factorization: 69%	343/500 [02:06<00:58, 2.67it/s]
Power Factorization: 69%	344/500 [02:06<00:57, 2.74it/s]
Power Factorization: 69%	345/500 [02:07<00:55, 2.79it/s]
Power Factorization: 69%	346/500 [02:07<00:54, 2.83it/s]

Power Factorization: 69%	347/500 [02:07<00:55, 2.74it/s]
Power Factorization: 70%	348/500 [02:08<00:56, 2.70it/s]
Power Factorization: 70%	349/500 [02:08<00:55, 2.74it/s]
Power Factorization: 70%	350/500 [02:09<00:54, 2.77it/s]
Power Factorization: 70%	351/500 [02:09<00:54, 2.76it/s]
Power Factorization: 70%	352/500 [02:09<00:55, 2.69it/s]
Power Factorization: 71%	353/500 [02:10<00:54, 2.71it/s]
Power Factorization: 71%	354/500 [02:10<00:54, 2.70it/s]
Power Factorization: 71%	355/500 [02:10<00:53, 2.74it/s]
Power Factorization: 71%	356/500 [02:11<00:52, 2.77it/s]
Power Factorization: 71%	357/500 [02:11<00:51, 2.77it/s]
Power Factorization: 72%	358/500 [02:12<00:53, 2.64it/s]
Power Factorization: 72%	359/500 [02:12<00:51, 2.74it/s]
Power Factorization: 72%	360/500 [02:12<00:50, 2.77it/s]
Power Factorization: 72%	361/500 [02:13<00:50, 2.77it/s]
Power Factorization: 72%	362/500 [02:13<00:49, 2.77it/s]
Power Factorization: 73%	363/500 [02:13<00:48, 2.80it/s]
Power Factorization: 73%	364/500 [02:14<00:48, 2.78it/s]
Power Factorization: 73%	365/500 [02:14<00:48, 2.80it/s]
Power Factorization: 73%	366/500 [02:14<00:47, 2.84it/s]
Power Factorization: 73%	367/500 [02:15<00:46, 2.86it/s]
Power Factorization: 74%	368/500 [02:15<00:46, 2.82it/s]
Power Factorization: 74%	369/500 [02:15<00:47, 2.78it/s]
Power Factorization: 74%	370/500 [02:16<00:47, 2.74it/s]

Power Factorization: 74%	371/500 [02:16<00:53, 2.41it/s]
Power Factorization: 74%	372/500 [02:17<00:51, 2.51it/s]
Power Factorization: 75%	373/500 [02:17<00:49, 2.59it/s]
Power Factorization: 75%	374/500 [02:17<00:47, 2.65it/s]
Power Factorization: 75%	375/500 [02:18<00:49, 2.52it/s]
Power Factorization: 75%	376/500 [02:18<00:52, 2.38it/s]
Power Factorization: 75%	377/500 [02:19<00:52, 2.35it/s]
Power Factorization: 76%	378/500 [02:19<00:50, 2.43it/s]
Power Factorization: 76%	379/500 [02:20<00:53, 2.25it/s]
Power Factorization: 76%	380/500 [02:20<00:51, 2.32it/s]
Power Factorization: 76%	381/500 [02:21<00:54, 2.17it/s]
Power Factorization: 76%	382/500 [02:21<00:52, 2.25it/s]
Power Factorization: 77%	383/500 [02:22<00:58, 2.01it/s]
Power Factorization: 77%	384/500 [02:22<00:54, 2.14it/s]
Power Factorization: 77%	385/500 [02:22<00:50, 2.26it/s]
Power Factorization: 77%	386/500 [02:23<00:50, 2.24it/s]
Power Factorization: 77%	387/500 [02:23<00:50, 2.25it/s]
Power Factorization: 78%	388/500 [02:24<00:50, 2.21it/s]
Power Factorization: 78%	389/500 [02:24<00:50, 2.20it/s]
Power Factorization: 78%	390/500 [02:25<00:47, 2.32it/s]
Power Factorization: 78%	391/500 [02:25<00:44, 2.46it/s]
Power Factorization: 78%	392/500 [02:25<00:42, 2.57it/s]
Power Factorization: 79%	393/500 [02:26<00:41, 2.59it/s]
Power Factorization: 79%	394/500 [02:26<00:39, 2.66it/s]

Power Factorization: 79%	395/500 [02:26<00:39, 2.65it/s]
Power Factorization: 79%	396/500 [02:27<00:42, 2.44it/s]
Power Factorization: 79%	397/500 [02:27<00:41, 2.47it/s]
Power Factorization: 80%	398/500 [02:28<00:39, 2.59it/s]
Power Factorization: 80%	399/500 [02:28<00:38, 2.62it/s]
Power Factorization: 80%	400/500 [02:28<00:37, 2.69it/s]
Power Factorization: 80%	401/500 [02:29<00:36, 2.73it/s]
Power Factorization: 80%	402/500 [02:29<00:35, 2.74it/s]
Power Factorization: 81%	403/500 [02:29<00:35, 2.77it/s]
Power Factorization: 81%	404/500 [02:30<00:35, 2.67it/s]
Power Factorization: 81%	405/500 [02:30<00:35, 2.68it/s]
Power Factorization: 81%	406/500 [02:31<00:34, 2.72it/s]
Power Factorization: 81%	407/500 [02:31<00:34, 2.66it/s]
Power Factorization: 82%	408/500 [02:31<00:35, 2.56it/s]
Power Factorization: 82%	409/500 [02:32<00:35, 2.55it/s]
Power Factorization: 82%	410/500 [02:32<00:33, 2.66it/s]
Power Factorization: 82%	411/500 [02:32<00:32, 2.70it/s]
Power Factorization: 82%	412/500 [02:33<00:32, 2.69it/s]
Power Factorization: 83%	413/500 [02:33<00:31, 2.75it/s]
Power Factorization: 83%	414/500 [02:34<00:31, 2.70it/s]
Power Factorization: 83%	415/500 [02:34<00:31, 2.69it/s]
Power Factorization: 83%	416/500 [02:34<00:31, 2.70it/s]
Power Factorization: 83%	417/500 [02:35<00:31, 2.63it/s]
Power Factorization: 84%	418/500 [02:35<00:30, 2.71it/s]

Power Factorization: 84%	419/500 [02:35<00:31,	2.60it/s]
Power Factorization: 84%	420/500 [02:36<00:30,	2.64it/s]
Power Factorization: 84%	421/500 [02:36<00:30,	2.60it/s]
Power Factorization: 84%	422/500 [02:37<00:30,	2.54it/s]
Power Factorization: 85%	423/500 [02:37<00:29,	2.58it/s]
Power Factorization: 85%	424/500 [02:37<00:29,	2.59it/s]
Power Factorization: 85%	425/500 [02:38<00:29,	2.56it/s]
Power Factorization: 85%	426/500 [02:38<00:28,	2.63it/s]
Power Factorization: 85%	427/500 [02:39<00:27,	2.68it/s]
Power Factorization: 86%	428/500 [02:39<00:27,	2.64it/s]
Power Factorization: 86%	429/500 [02:39<00:27,	2.54it/s]
Power Factorization: 86%	430/500 [02:40<00:26,	2.63it/s]
Power Factorization: 86%	431/500 [02:40<00:25,	2.71it/s]
Power Factorization: 86%	432/500 [02:40<00:26,	2.61it/s]
Power Factorization: 87%	433/500 [02:41<00:25,	2.65it/s]
Power Factorization: 87%	434/500 [02:41<00:24,	2.70it/s]
Power Factorization: 87%	435/500 [02:42<00:24,	2.69it/s]
Power Factorization: 87%	436/500 [02:42<00:24,	2.66it/s]
Power Factorization: 87%	437/500 [02:42<00:24,	2.58it/s]
Power Factorization: 88%	438/500 [02:43<00:24,	2.55it/s]
Power Factorization: 88%	439/500 [02:43<00:23,	2.59it/s]
Power Factorization: 88%	440/500 [02:43<00:22,	2.65it/s]
Power Factorization: 88%	441/500 [02:44<00:21,	2.71it/s]
Power Factorization: 88%	442/500 [02:44<00:21,	2.70it/s]

Power Factorization: 89%	443/500 [02:45<00:20,	2.74it/s]
Power Factorization: 89%	444/500 [02:45<00:20,	2.77it/s]
Power Factorization: 89%	445/500 [02:45<00:20,	2.73it/s]
Power Factorization: 89%	446/500 [02:46<00:19,	2.73it/s]
Power Factorization: 89%	447/500 [02:46<00:19,	2.73it/s]
Power Factorization: 90%	448/500 [02:46<00:20,	2.51it/s]
Power Factorization: 90%	449/500 [02:47<00:20,	2.52it/s]
Power Factorization: 90%	450/500 [02:47<00:19,	2.53it/s]
Power Factorization: 90%	451/500 [02:48<00:18,	2.60it/s]
Power Factorization: 90%	452/500 [02:48<00:17,	2.69it/s]
Power Factorization: 91%	453/500 [02:48<00:17,	2.64it/s]
Power Factorization: 91%	454/500 [02:49<00:17,	2.66it/s]
Power Factorization: 91%	455/500 [02:49<00:16,	2.69it/s]
Power Factorization: 91%	456/500 [02:50<00:17,	2.49it/s]
Power Factorization: 91%	457/500 [02:50<00:16,	2.55it/s]
Power Factorization: 92%	458/500 [02:50<00:16,	2.57it/s]
Power Factorization: 92%	459/500 [02:51<00:15,	2.59it/s]
Power Factorization: 92%	460/500 [02:51<00:15,	2.62it/s]
Power Factorization: 92%	461/500 [02:51<00:14,	2.67it/s]
Power Factorization: 92%	462/500 [02:52<00:14,	2.70it/s]
Power Factorization: 93%	463/500 [02:52<00:13,	2.73it/s]
Power Factorization: 93%	464/500 [02:52<00:12,	2.77it/s]
Power Factorization: 93%	465/500 [02:53<00:12,	2.82it/s]
Power Factorization: 93%	466/500 [02:53<00:12,	2.70it/s]

Power Factorization:	93%	467/500	[02:54<00:12,	2.74it/s]
Power Factorization:	94%	468/500	[02:54<00:11,	2.76it/s]
Power Factorization:	94%	469/500	[02:54<00:11,	2.73it/s]
Power Factorization:	94%	470/500	[02:55<00:10,	2.77it/s]
Power Factorization:	94%	471/500	[02:55<00:10,	2.79it/s]
Power Factorization:	94%	472/500	[02:55<00:10,	2.79it/s]
Power Factorization:	95%	473/500	[02:56<00:09,	2.84it/s]
Power Factorization:	95%	474/500	[02:56<00:09,	2.75it/s]
Power Factorization:	95%	475/500	[02:56<00:09,	2.76it/s]
Power Factorization:	95%	476/500	[02:57<00:09,	2.60it/s]
Power Factorization:	95%	477/500	[02:57<00:08,	2.59it/s]
Power Factorization:	96%	478/500	[02:58<00:08,	2.67it/s]
Power Factorization:	96%	479/500	[02:58<00:07,	2.69it/s]
Power Factorization:	96%	480/500	[02:58<00:07,	2.73it/s]
Power Factorization:	96%	481/500	[02:59<00:06,	2.75it/s]
Power Factorization:	96%	482/500	[02:59<00:06,	2.58it/s]
Power Factorization:	97%	483/500	[03:00<00:06,	2.56it/s]
Power Factorization:	97%	484/500	[03:00<00:06,	2.64it/s]
Power Factorization:	97%	485/500	[03:00<00:05,	2.61it/s]
Power Factorization:	97%	486/500	[03:01<00:05,	2.66it/s]
Power Factorization:	97%	487/500	[03:01<00:04,	2.71it/s]
Power Factorization:	98%	488/500	[03:01<00:04,	2.65it/s]
Power Factorization:	98%	489/500	[03:02<00:04,	2.72it/s]
Power Factorization:	98%	490/500	[03:02<00:03,	2.74it/s]

Power Factorization: 98%	491/500 [03:02<00:03, 2.76it/s]
Power Factorization: 98%	492/500 [03:03<00:02, 2.71it/s]
Power Factorization: 99%	493/500 [03:03<00:02, 2.69it/s]
Power Factorization: 99%	494/500 [03:04<00:02, 2.71it/s]
Power Factorization: 99%	495/500 [03:04<00:01, 2.66it/s]
Power Factorization: 99%	496/500 [03:04<00:01, 2.70it/s]
Power Factorization: 99%	497/500 [03:05<00:01, 2.49it/s]
Power Factorization: 100%	498/500 [03:05<00:00, 2.45it/s]
Power Factorization: 100%	499/500 [03:06<00:00, 2.51it/s]
Power Factorization: 100%	500/500 [03:06<00:00, 2.68it/s]
Cross Validation: 60%	3/5 [10:03<06:34, 197.08s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:51, 2.91it/s]
Power Factorization: 0%	2/500 [00:00<02:49, 2.94it/s]
Power Factorization: 1%	3/500 [00:01<03:01, 2.74it/s]
Power Factorization: 1%	4/500 [00:01<02:59, 2.76it/s]
Power Factorization: 1%	5/500 [00:01<03:00, 2.75it/s]
Power Factorization: 1%	6/500 [00:02<02:59, 2.76it/s]
Power Factorization: 1%	7/500 [00:02<03:10, 2.58it/s]
Power Factorization: 2%	8/500 [00:02<03:09, 2.59it/s]
Power Factorization: 2%	9/500 [00:03<03:05, 2.65it/s]
Power Factorization: 2%	10/500 [00:03<03:02, 2.68it/s]
Power Factorization: 2%	11/500 [00:04<03:07, 2.60it/s]
Power Factorization: 2%	12/500 [00:04<03:01, 2.68it/s]

Power Factorization:	3%	13/500	[00:04<02:56,	2.76it/s]
Power Factorization:	3%	14/500	[00:05<03:02,	2.66it/s]
Power Factorization:	3%	15/500	[00:05<02:57,	2.73it/s]
Power Factorization:	3%	16/500	[00:06<03:13,	2.50it/s]
Power Factorization:	3%	17/500	[00:06<03:10,	2.53it/s]
Power Factorization:	4%	18/500	[00:06<03:03,	2.63it/s]
Power Factorization:	4%	19/500	[00:07<03:06,	2.58it/s]
Power Factorization:	4%	20/500	[00:07<03:04,	2.60it/s]
Power Factorization:	4%	21/500	[00:07<03:05,	2.59it/s]
Power Factorization:	4%	22/500	[00:08<03:06,	2.56it/s]
Power Factorization:	5%	23/500	[00:08<03:08,	2.53it/s]
Power Factorization:	5%	24/500	[00:09<03:02,	2.61it/s]
Power Factorization:	5%	25/500	[00:09<03:06,	2.55it/s]
Power Factorization:	5%	26/500	[00:09<03:03,	2.58it/s]
Power Factorization:	5%	27/500	[00:10<03:01,	2.61it/s]
Power Factorization:	6%	28/500	[00:10<02:55,	2.69it/s]
Power Factorization:	6%	29/500	[00:10<02:57,	2.66it/s]
Power Factorization:	6%	30/500	[00:11<02:57,	2.64it/s]
Power Factorization:	6%	31/500	[00:11<02:54,	2.68it/s]
Power Factorization:	6%	32/500	[00:12<02:51,	2.72it/s]
Power Factorization:	7%	33/500	[00:12<02:52,	2.71it/s]
Power Factorization:	7%	34/500	[00:12<02:50,	2.74it/s]
Power Factorization:	7%	35/500	[00:13<02:50,	2.73it/s]
Power Factorization:	7%	36/500	[00:13<02:48,	2.75it/s]

Power Factorization:	7%	37/500 [00:13<02:46, 2.77it/s]
Power Factorization:	8%	38/500 [00:14<02:48, 2.74it/s]
Power Factorization:	8%	39/500 [00:14<02:46, 2.78it/s]
Power Factorization:	8%	40/500 [00:15<02:48, 2.73it/s]
Power Factorization:	8%	41/500 [00:15<02:49, 2.71it/s]
Power Factorization:	8%	42/500 [00:15<02:45, 2.78it/s]
Power Factorization:	9%	43/500 [00:16<02:43, 2.79it/s]
Power Factorization:	9%	44/500 [00:16<02:46, 2.74it/s]
Power Factorization:	9%	45/500 [00:16<02:50, 2.66it/s]
Power Factorization:	9%	46/500 [00:17<02:47, 2.70it/s]
Power Factorization:	9%	47/500 [00:17<03:01, 2.50it/s]
Power Factorization:	10%	48/500 [00:18<02:57, 2.55it/s]
Power Factorization:	10%	49/500 [00:18<02:57, 2.54it/s]
Power Factorization:	10%	50/500 [00:18<02:53, 2.59it/s]
Power Factorization:	10%	51/500 [00:19<02:50, 2.63it/s]
Power Factorization:	10%	52/500 [00:19<02:50, 2.63it/s]
Power Factorization:	11%	53/500 [00:19<02:53, 2.58it/s]
Power Factorization:	11%	54/500 [00:20<02:48, 2.65it/s]
Power Factorization:	11%	55/500 [00:20<02:46, 2.67it/s]
Power Factorization:	11%	56/500 [00:21<02:42, 2.73it/s]
Power Factorization:	11%	57/500 [00:21<02:39, 2.78it/s]
Power Factorization:	12%	58/500 [00:21<02:42, 2.73it/s]
Power Factorization:	12%	59/500 [00:22<02:40, 2.75it/s]
Power Factorization:	12%	60/500 [00:22<02:40, 2.74it/s]

Power Factorization: 12%	61/500 [00:22<02:39, 2.76it/s]
Power Factorization: 12%	62/500 [00:23<02:47, 2.61it/s]
Power Factorization: 13%	63/500 [00:23<02:48, 2.59it/s]
Power Factorization: 13%	64/500 [00:24<02:43, 2.66it/s]
Power Factorization: 13%	65/500 [00:24<02:46, 2.61it/s]
Power Factorization: 13%	66/500 [00:24<02:43, 2.66it/s]
Power Factorization: 13%	67/500 [00:25<02:52, 2.50it/s]
Power Factorization: 14%	68/500 [00:25<02:49, 2.54it/s]
Power Factorization: 14%	69/500 [00:25<02:47, 2.58it/s]
Power Factorization: 14%	70/500 [00:26<02:45, 2.61it/s]
Power Factorization: 14%	71/500 [00:26<02:44, 2.61it/s]
Power Factorization: 14%	72/500 [00:27<02:41, 2.66it/s]
Power Factorization: 15%	73/500 [00:27<02:38, 2.70it/s]
Power Factorization: 15%	74/500 [00:27<02:42, 2.61it/s]
Power Factorization: 15%	75/500 [00:28<02:48, 2.52it/s]
Power Factorization: 15%	76/500 [00:28<02:42, 2.61it/s]
Power Factorization: 15%	77/500 [00:29<02:37, 2.68it/s]
Power Factorization: 16%	78/500 [00:29<02:36, 2.70it/s]
Power Factorization: 16%	79/500 [00:29<02:34, 2.73it/s]
Power Factorization: 16%	80/500 [00:30<02:32, 2.75it/s]
Power Factorization: 16%	81/500 [00:30<02:35, 2.70it/s]
Power Factorization: 16%	82/500 [00:30<02:38, 2.64it/s]
Power Factorization: 17%	83/500 [00:31<02:37, 2.65it/s]
Power Factorization: 17%	84/500 [00:31<02:37, 2.65it/s]

Power Factorization: 17%	85/500 [00:32<02:36, 2.65it/s]
Power Factorization: 17%	86/500 [00:32<02:34, 2.69it/s]
Power Factorization: 17%	87/500 [00:32<02:29, 2.77it/s]
Power Factorization: 18%	88/500 [00:33<02:26, 2.81it/s]
Power Factorization: 18%	89/500 [00:33<02:27, 2.79it/s]
Power Factorization: 18%	90/500 [00:33<02:27, 2.79it/s]
Power Factorization: 18%	91/500 [00:34<02:25, 2.81it/s]
Power Factorization: 18%	92/500 [00:34<02:27, 2.77it/s]
Power Factorization: 19%	93/500 [00:34<02:30, 2.70it/s]
Power Factorization: 19%	94/500 [00:35<02:29, 2.71it/s]
Power Factorization: 19%	95/500 [00:35<02:32, 2.66it/s]
Power Factorization: 19%	96/500 [00:35<02:29, 2.70it/s]
Power Factorization: 19%	97/500 [00:36<02:33, 2.63it/s]
Power Factorization: 20%	98/500 [00:36<02:35, 2.58it/s]
Power Factorization: 20%	99/500 [00:37<02:29, 2.68it/s]
Power Factorization: 20%	100/500 [00:37<02:29, 2.68it/s]
Power Factorization: 20%	101/500 [00:37<02:29, 2.67it/s]
Power Factorization: 20%	102/500 [00:38<02:27, 2.70it/s]
Power Factorization: 21%	103/500 [00:38<02:30, 2.65it/s]
Power Factorization: 21%	104/500 [00:39<02:28, 2.66it/s]
Power Factorization: 21%	105/500 [00:39<02:26, 2.69it/s]
Power Factorization: 21%	106/500 [00:39<02:24, 2.72it/s]
Power Factorization: 21%	107/500 [00:40<02:24, 2.72it/s]
Power Factorization: 22%	108/500 [00:40<02:25, 2.69it/s]

Power Factorization: 22%	109/500 [00:40<02:26, 2.67it/s]
Power Factorization: 22%	110/500 [00:41<02:22, 2.73it/s]
Power Factorization: 22%	111/500 [00:41<02:19, 2.78it/s]
Power Factorization: 22%	112/500 [00:41<02:19, 2.78it/s]
Power Factorization: 23%	113/500 [00:42<02:19, 2.78it/s]
Power Factorization: 23%	114/500 [00:42<02:22, 2.71it/s]
Power Factorization: 23%	115/500 [00:43<02:21, 2.73it/s]
Power Factorization: 23%	116/500 [00:43<02:22, 2.70it/s]
Power Factorization: 23%	117/500 [00:43<02:22, 2.69it/s]
Power Factorization: 24%	118/500 [00:44<02:27, 2.59it/s]
Power Factorization: 24%	119/500 [00:44<02:23, 2.66it/s]
Power Factorization: 24%	120/500 [00:44<02:24, 2.63it/s]
Power Factorization: 24%	121/500 [00:45<02:24, 2.62it/s]
Power Factorization: 24%	122/500 [00:45<02:27, 2.55it/s]
Power Factorization: 25%	123/500 [00:46<02:27, 2.55it/s]
Power Factorization: 25%	124/500 [00:46<02:27, 2.55it/s]
Power Factorization: 25%	125/500 [00:46<02:22, 2.64it/s]
Power Factorization: 25%	126/500 [00:47<02:18, 2.70it/s]
Power Factorization: 25%	127/500 [00:47<02:26, 2.55it/s]
Power Factorization: 26%	128/500 [00:48<02:21, 2.64it/s]
Power Factorization: 26%	129/500 [00:48<02:19, 2.65it/s]
Power Factorization: 26%	130/500 [00:48<02:23, 2.58it/s]
Power Factorization: 26%	131/500 [00:49<02:17, 2.69it/s]
Power Factorization: 26%	132/500 [00:49<02:21, 2.60it/s]

Power Factorization: 27%	133/500 [00:49<02:20, 2.61it/s]
Power Factorization: 27%	134/500 [00:50<02:26, 2.50it/s]
Power Factorization: 27%	135/500 [00:50<02:28, 2.45it/s]
Power Factorization: 27%	136/500 [00:51<02:19, 2.62it/s]
Power Factorization: 27%	137/500 [00:51<02:15, 2.68it/s]
Power Factorization: 28%	138/500 [00:51<02:15, 2.67it/s]
Power Factorization: 28%	139/500 [00:52<02:11, 2.74it/s]
Power Factorization: 28%	140/500 [00:52<02:08, 2.80it/s]
Power Factorization: 28%	141/500 [00:52<02:06, 2.83it/s]
Power Factorization: 28%	142/500 [00:53<02:04, 2.88it/s]
Power Factorization: 29%	143/500 [00:53<02:04, 2.87it/s]
Power Factorization: 29%	144/500 [00:53<02:04, 2.86it/s]
Power Factorization: 29%	145/500 [00:54<01:58, 3.00it/s]
Power Factorization: 29%	146/500 [00:54<02:00, 2.94it/s]
Power Factorization: 29%	147/500 [00:54<02:03, 2.86it/s]
Power Factorization: 30%	148/500 [00:55<02:00, 2.91it/s]
Power Factorization: 30%	149/500 [00:55<01:59, 2.93it/s]
Power Factorization: 30%	150/500 [00:55<01:59, 2.92it/s]
Power Factorization: 30%	151/500 [00:56<01:58, 2.94it/s]
Power Factorization: 30%	152/500 [00:56<01:57, 2.96it/s]
Power Factorization: 31%	153/500 [00:56<02:01, 2.85it/s]
Power Factorization: 31%	154/500 [00:57<01:58, 2.93it/s]
Power Factorization: 31%	155/500 [00:57<01:59, 2.89it/s]
Power Factorization: 31%	156/500 [00:58<02:01, 2.84it/s]

Power Factorization: 31%	157/500 [00:58<01:58, 2.90it/s]
Power Factorization: 32%	158/500 [00:58<01:57, 2.91it/s]
Power Factorization: 32%	159/500 [00:59<01:55, 2.94it/s]
Power Factorization: 32%	160/500 [00:59<01:56, 2.93it/s]
Power Factorization: 32%	161/500 [00:59<01:53, 2.97it/s]
Power Factorization: 32%	162/500 [01:00<01:51, 3.03it/s]
Power Factorization: 33%	163/500 [01:00<01:51, 3.01it/s]
Power Factorization: 33%	164/500 [01:00<01:52, 2.98it/s]
Power Factorization: 33%	165/500 [01:01<01:52, 2.98it/s]
Power Factorization: 33%	166/500 [01:01<01:49, 3.04it/s]
Power Factorization: 33%	167/500 [01:01<01:51, 2.99it/s]
Power Factorization: 34%	168/500 [01:02<01:51, 2.97it/s]
Power Factorization: 34%	169/500 [01:02<01:59, 2.78it/s]
Power Factorization: 34%	170/500 [01:02<01:55, 2.85it/s]
Power Factorization: 34%	171/500 [01:03<01:54, 2.87it/s]
Power Factorization: 34%	172/500 [01:03<01:51, 2.95it/s]
Power Factorization: 35%	173/500 [01:03<01:52, 2.92it/s]
Power Factorization: 35%	174/500 [01:04<01:54, 2.84it/s]
Power Factorization: 35%	175/500 [01:04<01:56, 2.78it/s]
Power Factorization: 35%	176/500 [01:04<01:55, 2.81it/s]
Power Factorization: 35%	177/500 [01:05<01:56, 2.78it/s]
Power Factorization: 36%	178/500 [01:05<01:54, 2.81it/s]
Power Factorization: 36%	179/500 [01:05<01:51, 2.88it/s]
Power Factorization: 36%	180/500 [01:06<01:50, 2.89it/s]

Power Factorization: 36%	181/500 [01:06<01:49, 2.91it/s]
Power Factorization: 36%	182/500 [01:06<01:48, 2.94it/s]
Power Factorization: 37%	183/500 [01:07<01:47, 2.94it/s]
Power Factorization: 37%	184/500 [01:07<01:49, 2.88it/s]
Power Factorization: 37%	185/500 [01:08<01:56, 2.71it/s]
Power Factorization: 37%	186/500 [01:08<01:59, 2.63it/s]
Power Factorization: 37%	187/500 [01:08<02:01, 2.59it/s]
Power Factorization: 38%	188/500 [01:09<01:56, 2.68it/s]
Power Factorization: 38%	189/500 [01:09<01:48, 2.85it/s]
Power Factorization: 38%	190/500 [01:09<01:49, 2.83it/s]
Power Factorization: 38%	191/500 [01:10<01:47, 2.87it/s]
Power Factorization: 38%	192/500 [01:10<01:46, 2.90it/s]
Power Factorization: 39%	193/500 [01:10<01:44, 2.94it/s]
Power Factorization: 39%	194/500 [01:11<02:13, 2.29it/s]
Power Factorization: 39%	195/500 [01:11<02:06, 2.41it/s]
Power Factorization: 39%	196/500 [01:12<01:57, 2.59it/s]
Power Factorization: 39%	197/500 [01:12<01:50, 2.74it/s]
Power Factorization: 40%	198/500 [01:12<01:46, 2.85it/s]
Power Factorization: 40%	199/500 [01:13<01:43, 2.91it/s]
Power Factorization: 40%	200/500 [01:13<01:45, 2.85it/s]
Power Factorization: 40%	201/500 [01:13<01:44, 2.87it/s]
Power Factorization: 40%	202/500 [01:14<01:43, 2.88it/s]
Power Factorization: 41%	203/500 [01:14<01:41, 2.93it/s]
Power Factorization: 41%	204/500 [01:14<01:38, 2.99it/s]

Power Factorization: 41%	205/500 [01:15<01:39, 2.98it/s]
Power Factorization: 41%	206/500 [01:15<01:38, 2.98it/s]
Power Factorization: 41%	207/500 [01:15<01:37, 3.01it/s]
Power Factorization: 42%	208/500 [01:16<01:37, 2.99it/s]
Power Factorization: 42%	209/500 [01:16<01:37, 2.97it/s]
Power Factorization: 42%	210/500 [01:16<01:37, 2.97it/s]
Power Factorization: 42%	211/500 [01:17<01:38, 2.95it/s]
Power Factorization: 42%	212/500 [01:17<01:41, 2.85it/s]
Power Factorization: 43%	213/500 [01:17<01:40, 2.85it/s]
Power Factorization: 43%	214/500 [01:18<01:39, 2.89it/s]
Power Factorization: 43%	215/500 [01:18<01:35, 2.98it/s]
Power Factorization: 43%	216/500 [01:18<01:34, 2.99it/s]
Power Factorization: 43%	217/500 [01:19<01:34, 2.99it/s]
Power Factorization: 44%	218/500 [01:19<01:35, 2.95it/s]
Power Factorization: 44%	219/500 [01:19<01:34, 2.96it/s]
Power Factorization: 44%	220/500 [01:20<01:33, 3.00it/s]
Power Factorization: 44%	221/500 [01:20<01:33, 2.98it/s]
Power Factorization: 44%	222/500 [01:20<01:32, 3.02it/s]
Power Factorization: 45%	223/500 [01:21<01:33, 2.95it/s]
Power Factorization: 45%	224/500 [01:21<01:32, 2.98it/s]
Power Factorization: 45%	225/500 [01:21<01:32, 2.97it/s]
Power Factorization: 45%	226/500 [01:22<01:32, 2.95it/s]
Power Factorization: 45%	227/500 [01:22<01:31, 2.97it/s]
Power Factorization: 46%	228/500 [01:22<01:29, 3.02it/s]

Power Factorization: 46%	229/500 [01:23<01:30, 3.01it/s]
Power Factorization: 46%	230/500 [01:23<01:31, 2.96it/s]
Power Factorization: 46%	231/500 [01:24<01:34, 2.85it/s]
Power Factorization: 46%	232/500 [01:24<01:33, 2.87it/s]
Power Factorization: 47%	233/500 [01:24<01:32, 2.89it/s]
Power Factorization: 47%	234/500 [01:25<01:30, 2.94it/s]
Power Factorization: 47%	235/500 [01:25<01:32, 2.88it/s]
Power Factorization: 47%	236/500 [01:25<01:33, 2.82it/s]
Power Factorization: 47%	237/500 [01:26<01:33, 2.81it/s]
Power Factorization: 48%	238/500 [01:26<01:32, 2.84it/s]
Power Factorization: 48%	239/500 [01:26<01:34, 2.76it/s]
Power Factorization: 48%	240/500 [01:27<01:35, 2.71it/s]
Power Factorization: 48%	241/500 [01:27<01:35, 2.72it/s]
Power Factorization: 48%	242/500 [01:27<01:33, 2.75it/s]
Power Factorization: 49%	243/500 [01:28<01:35, 2.68it/s]
Power Factorization: 49%	244/500 [01:28<01:35, 2.68it/s]
Power Factorization: 49%	245/500 [01:29<01:36, 2.65it/s]
Power Factorization: 49%	246/500 [01:29<01:33, 2.73it/s]
Power Factorization: 49%	247/500 [01:29<01:29, 2.81it/s]
Power Factorization: 50%	248/500 [01:30<01:25, 2.95it/s]
Power Factorization: 50%	249/500 [01:30<01:26, 2.89it/s]
Power Factorization: 50%	250/500 [01:30<01:26, 2.90it/s]
Power Factorization: 50%	251/500 [01:31<01:25, 2.93it/s]
Power Factorization: 50%	252/500 [01:31<01:23, 2.96it/s]

Power Factorization: 51%	253/500 [01:31<01:20, 3.06it/s]
Power Factorization: 51%	254/500 [01:32<01:21, 3.02it/s]
Power Factorization: 51%	255/500 [01:32<01:20, 3.05it/s]
Power Factorization: 51%	256/500 [01:32<01:21, 3.01it/s]
Power Factorization: 51%	257/500 [01:33<01:17, 3.13it/s]
Power Factorization: 52%	258/500 [01:33<01:20, 2.99it/s]
Power Factorization: 52%	259/500 [01:33<01:25, 2.83it/s]
Power Factorization: 52%	260/500 [01:34<01:24, 2.83it/s]
Power Factorization: 52%	261/500 [01:34<01:29, 2.68it/s]
Power Factorization: 52%	262/500 [01:34<01:28, 2.69it/s]
Power Factorization: 53%	263/500 [01:35<01:29, 2.66it/s]
Power Factorization: 53%	264/500 [01:35<01:27, 2.68it/s]
Power Factorization: 53%	265/500 [01:36<01:29, 2.63it/s]
Power Factorization: 53%	266/500 [01:36<01:25, 2.73it/s]
Power Factorization: 53%	267/500 [01:36<01:23, 2.79it/s]
Power Factorization: 54%	268/500 [01:37<01:24, 2.75it/s]
Power Factorization: 54%	269/500 [01:37<01:22, 2.80it/s]
Power Factorization: 54%	270/500 [01:37<01:21, 2.82it/s]
Power Factorization: 54%	271/500 [01:38<01:21, 2.80it/s]
Power Factorization: 54%	272/500 [01:38<01:24, 2.69it/s]
Power Factorization: 55%	273/500 [01:39<01:26, 2.64it/s]
Power Factorization: 55%	274/500 [01:39<01:24, 2.66it/s]
Power Factorization: 55%	275/500 [01:39<01:23, 2.69it/s]
Power Factorization: 55%	276/500 [01:40<01:22, 2.72it/s]

Power Factorization: 55%	277/500 [01:40<01:22, 2.70it/s]
Power Factorization: 56%	278/500 [01:40<01:21, 2.72it/s]
Power Factorization: 56%	279/500 [01:41<01:19, 2.77it/s]
Power Factorization: 56%	280/500 [01:41<01:21, 2.71it/s]
Power Factorization: 56%	281/500 [01:41<01:19, 2.75it/s]
Power Factorization: 56%	282/500 [01:42<01:20, 2.72it/s]
Power Factorization: 57%	283/500 [01:42<01:18, 2.76it/s]
Power Factorization: 57%	284/500 [01:43<01:18, 2.75it/s]
Power Factorization: 57%	285/500 [01:43<01:19, 2.69it/s]
Power Factorization: 57%	286/500 [01:43<01:18, 2.73it/s]
Power Factorization: 57%	287/500 [01:44<01:17, 2.74it/s]
Power Factorization: 58%	288/500 [01:44<01:16, 2.76it/s]
Power Factorization: 58%	289/500 [01:44<01:18, 2.70it/s]
Power Factorization: 58%	290/500 [01:45<01:17, 2.72it/s]
Power Factorization: 58%	291/500 [01:45<01:15, 2.78it/s]
Power Factorization: 58%	292/500 [01:45<01:15, 2.77it/s]
Power Factorization: 59%	293/500 [01:46<01:14, 2.76it/s]
Power Factorization: 59%	294/500 [01:46<01:15, 2.71it/s]
Power Factorization: 59%	295/500 [01:47<01:15, 2.73it/s]
Power Factorization: 59%	296/500 [01:47<01:14, 2.73it/s]
Power Factorization: 59%	297/500 [01:47<01:15, 2.70it/s]
Power Factorization: 60%	298/500 [01:48<01:17, 2.61it/s]
Power Factorization: 60%	299/500 [01:48<01:15, 2.65it/s]
Power Factorization: 60%	300/500 [01:48<01:15, 2.66it/s]

Power Factorization: 60%	301/500 [01:49<01:14, 2.67it/s]
Power Factorization: 60%	302/500 [01:49<01:14, 2.65it/s]
Power Factorization: 61%	303/500 [01:50<01:14, 2.64it/s]
Power Factorization: 61%	304/500 [01:50<01:13, 2.67it/s]
Power Factorization: 61%	305/500 [01:50<01:13, 2.67it/s]
Power Factorization: 61%	306/500 [01:51<01:11, 2.72it/s]
Power Factorization: 61%	307/500 [01:51<01:11, 2.69it/s]
Power Factorization: 62%	308/500 [01:51<01:10, 2.73it/s]
Power Factorization: 62%	309/500 [01:52<01:10, 2.72it/s]
Power Factorization: 62%	310/500 [01:52<01:09, 2.74it/s]
Power Factorization: 62%	311/500 [01:53<01:08, 2.75it/s]
Power Factorization: 62%	312/500 [01:53<01:11, 2.64it/s]
Power Factorization: 63%	313/500 [01:53<01:13, 2.55it/s]
Power Factorization: 63%	314/500 [01:54<01:10, 2.63it/s]
Power Factorization: 63%	315/500 [01:54<01:11, 2.57it/s]
Power Factorization: 63%	316/500 [01:54<01:08, 2.69it/s]
Power Factorization: 63%	317/500 [01:55<01:06, 2.75it/s]
Power Factorization: 64%	318/500 [01:55<01:04, 2.81it/s]
Power Factorization: 64%	319/500 [01:56<01:07, 2.69it/s]
Power Factorization: 64%	320/500 [01:56<01:07, 2.65it/s]
Power Factorization: 64%	321/500 [01:56<01:10, 2.54it/s]
Power Factorization: 64%	322/500 [01:57<01:09, 2.57it/s]
Power Factorization: 65%	323/500 [01:57<01:07, 2.62it/s]
Power Factorization: 65%	324/500 [01:57<01:06, 2.66it/s]

Power Factorization: 65%	325/500 [01:58<01:04,	2.71it/s]
Power Factorization: 65%	326/500 [01:58<01:05,	2.64it/s]
Power Factorization: 65%	327/500 [01:59<01:06,	2.60it/s]
Power Factorization: 66%	328/500 [01:59<01:06,	2.60it/s]
Power Factorization: 66%	329/500 [01:59<01:04,	2.67it/s]
Power Factorization: 66%	330/500 [02:00<01:03,	2.66it/s]
Power Factorization: 66%	331/500 [02:00<01:05,	2.59it/s]
Power Factorization: 66%	332/500 [02:00<01:02,	2.69it/s]
Power Factorization: 67%	333/500 [02:01<01:02,	2.69it/s]
Power Factorization: 67%	334/500 [02:01<01:02,	2.65it/s]
Power Factorization: 67%	335/500 [02:02<01:02,	2.66it/s]
Power Factorization: 67%	336/500 [02:02<01:01,	2.65it/s]
Power Factorization: 67%	337/500 [02:02<01:02,	2.62it/s]
Power Factorization: 68%	338/500 [02:03<01:02,	2.58it/s]
Power Factorization: 68%	339/500 [02:03<01:02,	2.59it/s]
Power Factorization: 68%	340/500 [02:04<01:00,	2.64it/s]
Power Factorization: 68%	341/500 [02:04<00:59,	2.68it/s]
Power Factorization: 68%	342/500 [02:04<00:58,	2.68it/s]
Power Factorization: 69%	343/500 [02:05<01:02,	2.53it/s]
Power Factorization: 69%	344/500 [02:05<01:01,	2.54it/s]
Power Factorization: 69%	345/500 [02:06<01:02,	2.50it/s]
Power Factorization: 69%	346/500 [02:06<01:00,	2.56it/s]
Power Factorization: 69%	347/500 [02:06<00:58,	2.62it/s]
Power Factorization: 70%	348/500 [02:07<00:58,	2.62it/s]

Power Factorization: 70%	349/500 [02:07<00:57, 2.63it/s]
Power Factorization: 70%	350/500 [02:07<00:56, 2.67it/s]
Power Factorization: 70%	351/500 [02:08<00:56, 2.62it/s]
Power Factorization: 70%	352/500 [02:08<00:55, 2.68it/s]
Power Factorization: 71%	353/500 [02:08<00:53, 2.74it/s]
Power Factorization: 71%	354/500 [02:09<00:53, 2.72it/s]
Power Factorization: 71%	355/500 [02:09<00:53, 2.73it/s]
Power Factorization: 71%	356/500 [02:10<00:52, 2.75it/s]
Power Factorization: 71%	357/500 [02:10<00:53, 2.69it/s]
Power Factorization: 72%	358/500 [02:10<00:55, 2.55it/s]
Power Factorization: 72%	359/500 [02:11<00:55, 2.53it/s]
Power Factorization: 72%	360/500 [02:11<00:54, 2.59it/s]
Power Factorization: 72%	361/500 [02:12<00:54, 2.53it/s]
Power Factorization: 72%	362/500 [02:12<00:56, 2.46it/s]
Power Factorization: 73%	363/500 [02:12<00:55, 2.49it/s]
Power Factorization: 73%	364/500 [02:13<00:52, 2.57it/s]
Power Factorization: 73%	365/500 [02:13<00:52, 2.58it/s]
Power Factorization: 73%	366/500 [02:14<00:52, 2.57it/s]
Power Factorization: 73%	367/500 [02:14<00:52, 2.54it/s]
Power Factorization: 74%	368/500 [02:14<00:50, 2.63it/s]
Power Factorization: 74%	369/500 [02:15<00:49, 2.66it/s]
Power Factorization: 74%	370/500 [02:15<00:52, 2.49it/s]
Power Factorization: 74%	371/500 [02:16<00:51, 2.51it/s]
Power Factorization: 74%	372/500 [02:16<00:53, 2.38it/s]

Power Factorization: 75%	373/500 [02:16<00:51, 2.47it/s]
Power Factorization: 75%	374/500 [02:17<00:49, 2.52it/s]
Power Factorization: 75%	375/500 [02:17<00:52, 2.39it/s]
Power Factorization: 75%	376/500 [02:18<00:50, 2.45it/s]
Power Factorization: 75%	377/500 [02:18<00:49, 2.48it/s]
Power Factorization: 76%	378/500 [02:18<00:47, 2.55it/s]
Power Factorization: 76%	379/500 [02:19<00:46, 2.60it/s]
Power Factorization: 76%	380/500 [02:19<00:45, 2.63it/s]
Power Factorization: 76%	381/500 [02:19<00:43, 2.74it/s]
Power Factorization: 76%	382/500 [02:20<00:42, 2.76it/s]
Power Factorization: 77%	383/500 [02:20<00:43, 2.72it/s]
Power Factorization: 77%	384/500 [02:21<00:46, 2.50it/s]
Power Factorization: 77%	385/500 [02:21<00:44, 2.58it/s]
Power Factorization: 77%	386/500 [02:21<00:44, 2.58it/s]
Power Factorization: 77%	387/500 [02:22<00:43, 2.63it/s]
Power Factorization: 78%	388/500 [02:22<00:43, 2.60it/s]
Power Factorization: 78%	389/500 [02:23<00:44, 2.48it/s]
Power Factorization: 78%	390/500 [02:23<00:45, 2.42it/s]
Power Factorization: 78%	391/500 [02:23<00:44, 2.44it/s]
Power Factorization: 78%	392/500 [02:24<00:44, 2.40it/s]
Power Factorization: 79%	393/500 [02:24<00:44, 2.42it/s]
Power Factorization: 79%	394/500 [02:25<00:44, 2.40it/s]
Power Factorization: 79%	395/500 [02:25<00:42, 2.50it/s]
Power Factorization: 79%	396/500 [02:25<00:42, 2.46it/s]

Power Factorization: 79%	397/500 [02:26<00:41, 2.45it/s]
Power Factorization: 80%	398/500 [02:26<00:41, 2.45it/s]
Power Factorization: 80%	399/500 [02:27<00:41, 2.44it/s]
Power Factorization: 80%	400/500 [02:27<00:41, 2.42it/s]
Power Factorization: 80%	401/500 [02:27<00:39, 2.52it/s]
Power Factorization: 80%	402/500 [02:28<00:38, 2.57it/s]
Power Factorization: 81%	403/500 [02:28<00:37, 2.56it/s]
Power Factorization: 81%	404/500 [02:29<00:38, 2.50it/s]
Power Factorization: 81%	405/500 [02:29<00:38, 2.46it/s]
Power Factorization: 81%	406/500 [02:29<00:37, 2.49it/s]
Power Factorization: 81%	407/500 [02:30<00:38, 2.45it/s]
Power Factorization: 82%	408/500 [02:30<00:36, 2.50it/s]
Power Factorization: 82%	409/500 [02:31<00:35, 2.54it/s]
Power Factorization: 82%	410/500 [02:31<00:34, 2.59it/s]
Power Factorization: 82%	411/500 [02:31<00:34, 2.59it/s]
Power Factorization: 82%	412/500 [02:32<00:33, 2.65it/s]
Power Factorization: 83%	413/500 [02:32<00:32, 2.64it/s]
Power Factorization: 83%	414/500 [02:33<00:33, 2.59it/s]
Power Factorization: 83%	415/500 [02:33<00:34, 2.46it/s]
Power Factorization: 83%	416/500 [02:33<00:33, 2.54it/s]
Power Factorization: 83%	417/500 [02:34<00:32, 2.59it/s]
Power Factorization: 84%	418/500 [02:34<00:32, 2.54it/s]
Power Factorization: 84%	419/500 [02:35<00:31, 2.61it/s]
Power Factorization: 84%	420/500 [02:35<00:30, 2.62it/s]

Power Factorization: 84%	421/500 [02:35<00:30, 2.62it/s]
Power Factorization: 84%	422/500 [02:36<00:29, 2.61it/s]
Power Factorization: 85%	423/500 [02:36<00:30, 2.57it/s]
Power Factorization: 85%	424/500 [02:36<00:30, 2.50it/s]
Power Factorization: 85%	425/500 [02:37<00:29, 2.55it/s]
Power Factorization: 85%	426/500 [02:37<00:30, 2.44it/s]
Power Factorization: 85%	427/500 [02:38<00:29, 2.44it/s]
Power Factorization: 86%	428/500 [02:38<00:28, 2.54it/s]
Power Factorization: 86%	429/500 [02:38<00:28, 2.49it/s]
Power Factorization: 86%	430/500 [02:39<00:28, 2.45it/s]
Power Factorization: 86%	431/500 [02:39<00:29, 2.34it/s]
Power Factorization: 86%	432/500 [02:40<00:27, 2.44it/s]
Power Factorization: 87%	433/500 [02:40<00:26, 2.52it/s]
Power Factorization: 87%	434/500 [02:41<00:26, 2.52it/s]
Power Factorization: 87%	435/500 [02:41<00:25, 2.59it/s]
Power Factorization: 87%	436/500 [02:41<00:24, 2.64it/s]
Power Factorization: 87%	437/500 [02:42<00:24, 2.60it/s]
Power Factorization: 88%	438/500 [02:42<00:23, 2.62it/s]
Power Factorization: 88%	439/500 [02:42<00:23, 2.64it/s]
Power Factorization: 88%	440/500 [02:43<00:25, 2.35it/s]
Power Factorization: 88%	441/500 [02:43<00:24, 2.41it/s]
Power Factorization: 88%	442/500 [02:44<00:23, 2.49it/s]
Power Factorization: 89%	443/500 [02:44<00:21, 2.60it/s]
Power Factorization: 89%	444/500 [02:44<00:21, 2.64it/s]

Power Factorization: 89%	445/500 [02:45<00:20,	2.64it/s]
Power Factorization: 89%	446/500 [02:45<00:20,	2.61it/s]
Power Factorization: 89%	447/500 [02:46<00:19,	2.70it/s]
Power Factorization: 90%	448/500 [02:46<00:19,	2.72it/s]
Power Factorization: 90%	449/500 [02:46<00:19,	2.68it/s]
Power Factorization: 90%	450/500 [02:47<00:18,	2.68it/s]
Power Factorization: 90%	451/500 [02:47<00:18,	2.70it/s]
Power Factorization: 90%	452/500 [02:47<00:18,	2.62it/s]
Power Factorization: 91%	453/500 [02:48<00:18,	2.60it/s]
Power Factorization: 91%	454/500 [02:48<00:17,	2.62it/s]
Power Factorization: 91%	455/500 [02:49<00:16,	2.67it/s]
Power Factorization: 91%	456/500 [02:49<00:16,	2.70it/s]
Power Factorization: 91%	457/500 [02:49<00:16,	2.58it/s]
Power Factorization: 92%	458/500 [02:50<00:15,	2.63it/s]
Power Factorization: 92%	459/500 [02:50<00:15,	2.65it/s]
Power Factorization: 92%	460/500 [02:50<00:15,	2.57it/s]
Power Factorization: 92%	461/500 [02:51<00:15,	2.56it/s]
Power Factorization: 92%	462/500 [02:51<00:15,	2.50it/s]
Power Factorization: 93%	463/500 [02:52<00:14,	2.53it/s]
Power Factorization: 93%	464/500 [02:52<00:14,	2.52it/s]
Power Factorization: 93%	465/500 [02:52<00:13,	2.50it/s]
Power Factorization: 93%	466/500 [02:53<00:13,	2.51it/s]
Power Factorization: 93%	467/500 [02:53<00:13,	2.53it/s]
Power Factorization: 94%	468/500 [02:54<00:12,	2.55it/s]

Power Factorization: 94%	469/500 [02:54<00:12, 2.58it/s]
Power Factorization: 94%	470/500 [02:54<00:11, 2.54it/s]
Power Factorization: 94%	471/500 [02:55<00:11, 2.62it/s]
Power Factorization: 94%	472/500 [02:55<00:10, 2.60it/s]
Power Factorization: 95%	473/500 [02:56<00:10, 2.64it/s]
Power Factorization: 95%	474/500 [02:56<00:09, 2.73it/s]
Power Factorization: 95%	475/500 [02:56<00:08, 2.81it/s]
Power Factorization: 95%	476/500 [02:57<00:09, 2.66it/s]
Power Factorization: 95%	477/500 [02:57<00:08, 2.65it/s]
Power Factorization: 96%	478/500 [02:57<00:08, 2.64it/s]
Power Factorization: 96%	479/500 [02:58<00:08, 2.62it/s]
Power Factorization: 96%	480/500 [02:58<00:07, 2.65it/s]
Power Factorization: 96%	481/500 [02:59<00:07, 2.71it/s]
Power Factorization: 96%	482/500 [02:59<00:06, 2.62it/s]
Power Factorization: 97%	483/500 [02:59<00:06, 2.64it/s]
Power Factorization: 97%	484/500 [03:00<00:06, 2.62it/s]
Power Factorization: 97%	485/500 [03:00<00:05, 2.55it/s]
Power Factorization: 97%	486/500 [03:00<00:05, 2.59it/s]
Power Factorization: 97%	487/500 [03:01<00:05, 2.57it/s]
Power Factorization: 98%	488/500 [03:01<00:04, 2.61it/s]
Power Factorization: 98%	489/500 [03:02<00:04, 2.57it/s]
Power Factorization: 98%	490/500 [03:02<00:03, 2.52it/s]
Power Factorization: 98%	491/500 [03:02<00:03, 2.57it/s]
Power Factorization: 98%	492/500 [03:03<00:03, 2.55it/s]

Power Factorization: 99%	493/500 [03:03<00:02, 2.54it/s]
Power Factorization: 99%	494/500 [03:04<00:02, 2.60it/s]
Power Factorization: 99%	495/500 [03:04<00:01, 2.54it/s]
Power Factorization: 99%	496/500 [03:04<00:01, 2.56it/s]
Power Factorization: 99%	497/500 [03:05<00:01, 2.65it/s]
Power Factorization: 100%	498/500 [03:05<00:00, 2.64it/s]
Power Factorization: 100%	499/500 [03:05<00:00, 2.65it/s]
Power Factorization: 100%	500/500 [03:06<00:00, 2.68it/s]
Cross Validation: 80%	4/5 [13:09<03:12, 192.88s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:06, 2.68it/s]
Power Factorization: 0%	2/500 [00:00<03:08, 2.64it/s]
Power Factorization: 1%	3/500 [00:01<03:05, 2.68it/s]
Power Factorization: 1%	4/500 [00:01<03:10, 2.60it/s]
Power Factorization: 1%	5/500 [00:01<03:10, 2.60it/s]
Power Factorization: 1%	6/500 [00:02<03:16, 2.51it/s]
Power Factorization: 1%	7/500 [00:02<03:17, 2.49it/s]
Power Factorization: 2%	8/500 [00:03<03:18, 2.47it/s]
Power Factorization: 2%	9/500 [00:03<03:15, 2.51it/s]
Power Factorization: 2%	10/500 [00:03<03:11, 2.56it/s]
Power Factorization: 2%	11/500 [00:04<03:10, 2.56it/s]
Power Factorization: 2%	12/500 [00:04<03:10, 2.56it/s]
Power Factorization: 3%	13/500 [00:05<03:10, 2.56it/s]
Power Factorization: 3%	14/500 [00:05<03:05, 2.61it/s]

Power Factorization:	3%	15/500	[00:05<03:05, 2.61it/s]
Power Factorization:	3%	16/500	[00:06<03:01, 2.67it/s]
Power Factorization:	3%	17/500	[00:06<03:02, 2.65it/s]
Power Factorization:	4%	18/500	[00:06<03:00, 2.67it/s]
Power Factorization:	4%	19/500	[00:07<02:56, 2.72it/s]
Power Factorization:	4%	20/500	[00:07<02:58, 2.70it/s]
Power Factorization:	4%	21/500	[00:08<03:05, 2.59it/s]
Power Factorization:	4%	22/500	[00:08<03:03, 2.60it/s]
Power Factorization:	5%	23/500	[00:08<03:02, 2.61it/s]
Power Factorization:	5%	24/500	[00:09<02:56, 2.70it/s]
Power Factorization:	5%	25/500	[00:09<03:04, 2.58it/s]
Power Factorization:	5%	26/500	[00:09<03:02, 2.60it/s]
Power Factorization:	5%	27/500	[00:10<03:03, 2.58it/s]
Power Factorization:	6%	28/500	[00:10<03:06, 2.53it/s]
Power Factorization:	6%	29/500	[00:11<03:01, 2.59it/s]
Power Factorization:	6%	30/500	[00:11<03:08, 2.50it/s]
Power Factorization:	6%	31/500	[00:11<03:07, 2.51it/s]
Power Factorization:	6%	32/500	[00:12<03:08, 2.48it/s]
Power Factorization:	7%	33/500	[00:12<03:01, 2.57it/s]
Power Factorization:	7%	34/500	[00:13<02:54, 2.67it/s]
Power Factorization:	7%	35/500	[00:13<02:52, 2.70it/s]
Power Factorization:	7%	36/500	[00:13<02:48, 2.76it/s]
Power Factorization:	7%	37/500	[00:14<02:55, 2.64it/s]
Power Factorization:	8%	38/500	[00:14<03:11, 2.41it/s]

Power Factorization:	8%	39/500 [00:15<03:02, 2.53it/s]
Power Factorization:	8%	40/500 [00:15<02:56, 2.61it/s]
Power Factorization:	8%	41/500 [00:15<02:56, 2.61it/s]
Power Factorization:	8%	42/500 [00:16<02:55, 2.62it/s]
Power Factorization:	9%	43/500 [00:16<02:53, 2.64it/s]
Power Factorization:	9%	44/500 [00:16<02:48, 2.70it/s]
Power Factorization:	9%	45/500 [00:17<02:47, 2.71it/s]
Power Factorization:	9%	46/500 [00:17<02:49, 2.68it/s]
Power Factorization:	9%	47/500 [00:18<02:44, 2.76it/s]
Power Factorization:	10%	48/500 [00:18<02:42, 2.78it/s]
Power Factorization:	10%	49/500 [00:18<02:41, 2.79it/s]
Power Factorization:	10%	50/500 [00:19<02:41, 2.78it/s]
Power Factorization:	10%	51/500 [00:19<02:42, 2.77it/s]
Power Factorization:	10%	52/500 [00:19<02:42, 2.76it/s]
Power Factorization:	11%	53/500 [00:20<02:42, 2.76it/s]
Power Factorization:	11%	54/500 [00:20<02:45, 2.70it/s]
Power Factorization:	11%	55/500 [00:20<02:45, 2.69it/s]
Power Factorization:	11%	56/500 [00:21<02:46, 2.67it/s]
Power Factorization:	11%	57/500 [00:21<02:42, 2.72it/s]
Power Factorization:	12%	58/500 [00:22<02:42, 2.72it/s]
Power Factorization:	12%	59/500 [00:22<02:46, 2.64it/s]
Power Factorization:	12%	60/500 [00:22<02:44, 2.67it/s]
Power Factorization:	12%	61/500 [00:23<02:45, 2.65it/s]
Power Factorization:	12%	62/500 [00:23<02:42, 2.70it/s]

Power Factorization: 13%	63/500 [00:23<02:39, 2.74it/s]
Power Factorization: 13%	64/500 [00:24<02:37, 2.76it/s]
Power Factorization: 13%	65/500 [00:24<02:37, 2.77it/s]
Power Factorization: 13%	66/500 [00:25<02:43, 2.66it/s]
Power Factorization: 13%	67/500 [00:25<02:45, 2.62it/s]
Power Factorization: 14%	68/500 [00:25<02:46, 2.59it/s]
Power Factorization: 14%	69/500 [00:26<02:46, 2.58it/s]
Power Factorization: 14%	70/500 [00:26<02:45, 2.61it/s]
Power Factorization: 14%	71/500 [00:26<02:49, 2.53it/s]
Power Factorization: 14%	72/500 [00:27<02:44, 2.60it/s]
Power Factorization: 15%	73/500 [00:27<02:48, 2.54it/s]
Power Factorization: 15%	74/500 [00:28<02:51, 2.49it/s]
Power Factorization: 15%	75/500 [00:28<02:48, 2.52it/s]
Power Factorization: 15%	76/500 [00:28<02:42, 2.62it/s]
Power Factorization: 15%	77/500 [00:29<02:36, 2.70it/s]
Power Factorization: 16%	78/500 [00:29<02:44, 2.57it/s]
Power Factorization: 16%	79/500 [00:30<02:42, 2.58it/s]
Power Factorization: 16%	80/500 [00:30<02:39, 2.64it/s]
Power Factorization: 16%	81/500 [00:30<02:40, 2.61it/s]
Power Factorization: 16%	82/500 [00:31<02:39, 2.63it/s]
Power Factorization: 17%	83/500 [00:31<02:40, 2.59it/s]
Power Factorization: 17%	84/500 [00:31<02:36, 2.66it/s]
Power Factorization: 17%	85/500 [00:32<02:33, 2.70it/s]
Power Factorization: 17%	86/500 [00:32<02:36, 2.64it/s]

Power Factorization: 17%	87/500 [00:33<02:33, 2.68it/s]
Power Factorization: 18%	88/500 [00:33<02:33, 2.69it/s]
Power Factorization: 18%	89/500 [00:33<02:32, 2.69it/s]
Power Factorization: 18%	90/500 [00:34<02:31, 2.70it/s]
Power Factorization: 18%	91/500 [00:34<02:26, 2.79it/s]
Power Factorization: 18%	92/500 [00:34<02:25, 2.80it/s]
Power Factorization: 19%	93/500 [00:35<02:32, 2.67it/s]
Power Factorization: 19%	94/500 [00:35<02:39, 2.55it/s]
Power Factorization: 19%	95/500 [00:36<02:34, 2.63it/s]
Power Factorization: 19%	96/500 [00:36<02:34, 2.62it/s]
Power Factorization: 19%	97/500 [00:36<02:36, 2.58it/s]
Power Factorization: 20%	98/500 [00:37<02:35, 2.59it/s]
Power Factorization: 20%	99/500 [00:37<02:29, 2.67it/s]
Power Factorization: 20%	100/500 [00:37<02:27, 2.71it/s]
Power Factorization: 20%	101/500 [00:38<02:28, 2.69it/s]
Power Factorization: 20%	102/500 [00:38<02:32, 2.61it/s]
Power Factorization: 21%	103/500 [00:39<02:28, 2.68it/s]
Power Factorization: 21%	104/500 [00:39<02:25, 2.72it/s]
Power Factorization: 21%	105/500 [00:39<02:26, 2.70it/s]
Power Factorization: 21%	106/500 [00:40<02:28, 2.65it/s]
Power Factorization: 21%	107/500 [00:40<02:29, 2.63it/s]
Power Factorization: 22%	108/500 [00:41<02:32, 2.57it/s]
Power Factorization: 22%	109/500 [00:41<02:33, 2.55it/s]
Power Factorization: 22%	110/500 [00:41<02:28, 2.63it/s]

Power Factorization: 22%	111/500 [00:42<02:28, 2.61it/s]
Power Factorization: 22%	112/500 [00:42<02:25, 2.68it/s]
Power Factorization: 23%	113/500 [00:42<02:37, 2.45it/s]
Power Factorization: 23%	114/500 [00:43<02:33, 2.51it/s]
Power Factorization: 23%	115/500 [00:43<02:30, 2.55it/s]
Power Factorization: 23%	116/500 [00:44<02:26, 2.63it/s]
Power Factorization: 23%	117/500 [00:44<02:31, 2.53it/s]
Power Factorization: 24%	118/500 [00:44<02:26, 2.60it/s]
Power Factorization: 24%	119/500 [00:45<02:21, 2.69it/s]
Power Factorization: 24%	120/500 [00:45<02:27, 2.58it/s]
Power Factorization: 24%	121/500 [00:46<02:26, 2.59it/s]
Power Factorization: 24%	122/500 [00:46<02:24, 2.61it/s]
Power Factorization: 25%	123/500 [00:46<02:24, 2.62it/s]
Power Factorization: 25%	124/500 [00:47<02:20, 2.67it/s]
Power Factorization: 25%	125/500 [00:47<02:26, 2.56it/s]
Power Factorization: 25%	126/500 [00:47<02:28, 2.53it/s]
Power Factorization: 25%	127/500 [00:48<02:25, 2.56it/s]
Power Factorization: 26%	128/500 [00:48<02:22, 2.61it/s]
Power Factorization: 26%	129/500 [00:49<02:23, 2.59it/s]
Power Factorization: 26%	130/500 [00:49<02:19, 2.65it/s]
Power Factorization: 26%	131/500 [00:49<02:20, 2.63it/s]
Power Factorization: 26%	132/500 [00:50<02:20, 2.62it/s]
Power Factorization: 27%	133/500 [00:50<02:18, 2.65it/s]
Power Factorization: 27%	134/500 [00:51<02:19, 2.63it/s]

Power Factorization: 27%	135/500 [00:51<02:20, 2.59it/s]
Power Factorization: 27%	136/500 [00:51<02:19, 2.61it/s]
Power Factorization: 27%	137/500 [00:52<02:18, 2.62it/s]
Power Factorization: 28%	138/500 [00:52<02:12, 2.74it/s]
Power Factorization: 28%	139/500 [00:52<02:13, 2.70it/s]
Power Factorization: 28%	140/500 [00:53<02:13, 2.70it/s]
Power Factorization: 28%	141/500 [00:53<02:18, 2.59it/s]
Power Factorization: 28%	142/500 [00:54<02:16, 2.62it/s]
Power Factorization: 29%	143/500 [00:54<02:14, 2.65it/s]
Power Factorization: 29%	144/500 [00:54<02:13, 2.67it/s]
Power Factorization: 29%	145/500 [00:55<02:14, 2.64it/s]
Power Factorization: 29%	146/500 [00:55<02:11, 2.69it/s]
Power Factorization: 29%	147/500 [00:55<02:09, 2.72it/s]
Power Factorization: 30%	148/500 [00:56<02:16, 2.57it/s]
Power Factorization: 30%	149/500 [00:56<02:15, 2.59it/s]
Power Factorization: 30%	150/500 [00:57<02:14, 2.61it/s]
Power Factorization: 30%	151/500 [00:57<02:08, 2.71it/s]
Power Factorization: 30%	152/500 [00:57<02:12, 2.64it/s]
Power Factorization: 31%	153/500 [00:58<02:11, 2.63it/s]
Power Factorization: 31%	154/500 [00:58<02:08, 2.69it/s]
Power Factorization: 31%	155/500 [00:58<02:11, 2.63it/s]
Power Factorization: 31%	156/500 [00:59<02:08, 2.68it/s]
Power Factorization: 31%	157/500 [00:59<02:11, 2.60it/s]
Power Factorization: 32%	158/500 [01:00<02:11, 2.59it/s]

Power Factorization: 32%	159/500 [01:00<02:08, 2.66it/s]
Power Factorization: 32%	160/500 [01:00<02:10, 2.60it/s]
Power Factorization: 32%	161/500 [01:01<02:08, 2.64it/s]
Power Factorization: 32%	162/500 [01:01<02:06, 2.68it/s]
Power Factorization: 33%	163/500 [01:01<02:05, 2.68it/s]
Power Factorization: 33%	164/500 [01:02<02:06, 2.66it/s]
Power Factorization: 33%	165/500 [01:02<02:02, 2.73it/s]
Power Factorization: 33%	166/500 [01:03<02:01, 2.76it/s]
Power Factorization: 33%	167/500 [01:03<02:02, 2.71it/s]
Power Factorization: 34%	168/500 [01:03<02:09, 2.56it/s]
Power Factorization: 34%	169/500 [01:04<02:17, 2.42it/s]
Power Factorization: 34%	170/500 [01:04<02:10, 2.52it/s]
Power Factorization: 34%	171/500 [01:05<02:04, 2.64it/s]
Power Factorization: 34%	172/500 [01:05<02:03, 2.65it/s]
Power Factorization: 35%	173/500 [01:05<01:57, 2.79it/s]
Power Factorization: 35%	174/500 [01:06<02:00, 2.71it/s]
Power Factorization: 35%	175/500 [01:06<02:02, 2.66it/s]
Power Factorization: 35%	176/500 [01:06<01:59, 2.72it/s]
Power Factorization: 35%	177/500 [01:07<02:00, 2.67it/s]
Power Factorization: 36%	178/500 [01:07<01:58, 2.71it/s]
Power Factorization: 36%	179/500 [01:07<01:59, 2.68it/s]
Power Factorization: 36%	180/500 [01:08<01:59, 2.69it/s]
Power Factorization: 36%	181/500 [01:08<02:00, 2.65it/s]
Power Factorization: 36%	182/500 [01:09<02:01, 2.62it/s]

Power Factorization: 37%	183/500 [01:09<01:58, 2.67it/s]
Power Factorization: 37%	184/500 [01:09<01:59, 2.65it/s]
Power Factorization: 37%	185/500 [01:10<01:58, 2.67it/s]
Power Factorization: 37%	186/500 [01:10<01:57, 2.68it/s]
Power Factorization: 37%	187/500 [01:10<01:54, 2.73it/s]
Power Factorization: 38%	188/500 [01:11<01:52, 2.77it/s]
Power Factorization: 38%	189/500 [01:11<01:57, 2.65it/s]
Power Factorization: 38%	190/500 [01:12<01:54, 2.71it/s]
Power Factorization: 38%	191/500 [01:12<01:54, 2.70it/s]
Power Factorization: 38%	192/500 [01:12<01:59, 2.57it/s]
Power Factorization: 39%	193/500 [01:13<01:58, 2.59it/s]
Power Factorization: 39%	194/500 [01:13<01:58, 2.58it/s]
Power Factorization: 39%	195/500 [01:14<01:57, 2.59it/s]
Power Factorization: 39%	196/500 [01:14<01:59, 2.54it/s]
Power Factorization: 39%	197/500 [01:14<01:57, 2.58it/s]
Power Factorization: 40%	198/500 [01:15<01:58, 2.54it/s]
Power Factorization: 40%	199/500 [01:15<01:54, 2.62it/s]
Power Factorization: 40%	200/500 [01:15<01:55, 2.61it/s]
Power Factorization: 40%	201/500 [01:16<01:52, 2.65it/s]
Power Factorization: 40%	202/500 [01:16<01:51, 2.67it/s]
Power Factorization: 41%	203/500 [01:17<01:49, 2.72it/s]
Power Factorization: 41%	204/500 [01:17<01:46, 2.77it/s]
Power Factorization: 41%	205/500 [01:17<01:47, 2.75it/s]
Power Factorization: 41%	206/500 [01:18<01:53, 2.59it/s]

Power Factorization: 41%	207/500 [01:18<01:51, 2.64it/s]
Power Factorization: 42%	208/500 [01:18<01:53, 2.58it/s]
Power Factorization: 42%	209/500 [01:19<01:50, 2.63it/s]
Power Factorization: 42%	210/500 [01:19<01:51, 2.61it/s]
Power Factorization: 42%	211/500 [01:20<01:50, 2.62it/s]
Power Factorization: 42%	212/500 [01:20<01:53, 2.53it/s]
Power Factorization: 43%	213/500 [01:20<01:54, 2.51it/s]
Power Factorization: 43%	214/500 [01:21<01:54, 2.51it/s]
Power Factorization: 43%	215/500 [01:21<01:55, 2.48it/s]
Power Factorization: 43%	216/500 [01:22<01:50, 2.56it/s]
Power Factorization: 43%	217/500 [01:22<01:48, 2.61it/s]
Power Factorization: 44%	218/500 [01:22<01:49, 2.58it/s]
Power Factorization: 44%	219/500 [01:23<01:47, 2.61it/s]
Power Factorization: 44%	220/500 [01:23<01:44, 2.67it/s]
Power Factorization: 44%	221/500 [01:23<01:42, 2.73it/s]
Power Factorization: 44%	222/500 [01:24<01:43, 2.70it/s]
Power Factorization: 45%	223/500 [01:24<01:41, 2.74it/s]
Power Factorization: 45%	224/500 [01:25<01:44, 2.65it/s]
Power Factorization: 45%	225/500 [01:25<01:46, 2.59it/s]
Power Factorization: 45%	226/500 [01:25<01:43, 2.65it/s]
Power Factorization: 45%	227/500 [01:26<01:38, 2.76it/s]
Power Factorization: 46%	228/500 [01:26<01:38, 2.77it/s]
Power Factorization: 46%	229/500 [01:26<01:39, 2.73it/s]
Power Factorization: 46%	230/500 [01:27<01:37, 2.76it/s]

Power Factorization: 46%	231/500 [01:27<01:38, 2.74it/s]
Power Factorization: 46%	232/500 [01:27<01:37, 2.74it/s]
Power Factorization: 47%	233/500 [01:28<01:40, 2.67it/s]
Power Factorization: 47%	234/500 [01:28<01:36, 2.74it/s]
Power Factorization: 47%	235/500 [01:29<01:38, 2.70it/s]
Power Factorization: 47%	236/500 [01:29<01:38, 2.67it/s]
Power Factorization: 47%	237/500 [01:29<01:42, 2.56it/s]
Power Factorization: 48%	238/500 [01:30<01:40, 2.60it/s]
Power Factorization: 48%	239/500 [01:30<01:39, 2.61it/s]
Power Factorization: 48%	240/500 [01:31<01:36, 2.68it/s]
Power Factorization: 48%	241/500 [01:31<01:37, 2.66it/s]
Power Factorization: 48%	242/500 [01:31<01:36, 2.66it/s]
Power Factorization: 49%	243/500 [01:32<01:40, 2.56it/s]
Power Factorization: 49%	244/500 [01:32<01:37, 2.62it/s]
Power Factorization: 49%	245/500 [01:32<01:39, 2.56it/s]
Power Factorization: 49%	246/500 [01:33<01:42, 2.47it/s]
Power Factorization: 49%	247/500 [01:33<01:40, 2.51it/s]
Power Factorization: 50%	248/500 [01:34<01:42, 2.46it/s]
Power Factorization: 50%	249/500 [01:34<01:41, 2.47it/s]
Power Factorization: 50%	250/500 [01:34<01:36, 2.60it/s]
Power Factorization: 50%	251/500 [01:35<01:30, 2.75it/s]
Power Factorization: 50%	252/500 [01:35<01:31, 2.71it/s]
Power Factorization: 51%	253/500 [01:36<01:30, 2.73it/s]
Power Factorization: 51%	254/500 [01:36<01:28, 2.78it/s]

Power Factorization: 51%	255/500 [01:36<01:29, 2.75it/s]
Power Factorization: 51%	256/500 [01:37<01:29, 2.74it/s]
Power Factorization: 51%	257/500 [01:37<01:26, 2.81it/s]
Power Factorization: 52%	258/500 [01:37<01:25, 2.83it/s]
Power Factorization: 52%	259/500 [01:38<01:25, 2.82it/s]
Power Factorization: 52%	260/500 [01:38<01:26, 2.78it/s]
Power Factorization: 52%	261/500 [01:38<01:25, 2.80it/s]
Power Factorization: 52%	262/500 [01:39<01:25, 2.77it/s]
Power Factorization: 53%	263/500 [01:39<01:27, 2.72it/s]
Power Factorization: 53%	264/500 [01:39<01:26, 2.74it/s]
Power Factorization: 53%	265/500 [01:40<01:25, 2.76it/s]
Power Factorization: 53%	266/500 [01:40<01:25, 2.73it/s]
Power Factorization: 53%	267/500 [01:41<01:25, 2.72it/s]
Power Factorization: 54%	268/500 [01:41<01:23, 2.78it/s]
Power Factorization: 54%	269/500 [01:41<01:22, 2.81it/s]
Power Factorization: 54%	270/500 [01:42<01:21, 2.81it/s]
Power Factorization: 54%	271/500 [01:42<01:21, 2.82it/s]
Power Factorization: 54%	272/500 [01:42<01:23, 2.75it/s]
Power Factorization: 55%	273/500 [01:43<01:18, 2.90it/s]
Power Factorization: 55%	274/500 [01:43<01:18, 2.88it/s]
Power Factorization: 55%	275/500 [01:43<01:23, 2.70it/s]
Power Factorization: 55%	276/500 [01:44<01:24, 2.65it/s]
Power Factorization: 55%	277/500 [01:44<01:22, 2.71it/s]
Power Factorization: 56%	278/500 [01:45<01:21, 2.73it/s]

Power Factorization: 56%	279/500 [01:45<01:18, 2.82it/s]
Power Factorization: 56%	280/500 [01:45<01:16, 2.87it/s]
Power Factorization: 56%	281/500 [01:46<01:14, 2.93it/s]
Power Factorization: 56%	282/500 [01:46<01:18, 2.77it/s]
Power Factorization: 57%	283/500 [01:46<01:17, 2.81it/s]
Power Factorization: 57%	284/500 [01:47<01:15, 2.85it/s]
Power Factorization: 57%	285/500 [01:47<01:19, 2.69it/s]
Power Factorization: 57%	286/500 [01:47<01:20, 2.65it/s]
Power Factorization: 57%	287/500 [01:48<01:19, 2.70it/s]
Power Factorization: 58%	288/500 [01:48<01:17, 2.74it/s]
Power Factorization: 58%	289/500 [01:48<01:15, 2.80it/s]
Power Factorization: 58%	290/500 [01:49<01:15, 2.79it/s]
Power Factorization: 58%	291/500 [01:49<01:13, 2.86it/s]
Power Factorization: 58%	292/500 [01:50<01:15, 2.75it/s]
Power Factorization: 59%	293/500 [01:50<01:20, 2.56it/s]
Power Factorization: 59%	294/500 [01:50<01:22, 2.51it/s]
Power Factorization: 59%	295/500 [01:51<01:18, 2.61it/s]
Power Factorization: 59%	296/500 [01:51<01:17, 2.62it/s]
Power Factorization: 59%	297/500 [01:52<01:16, 2.65it/s]
Power Factorization: 60%	298/500 [01:52<01:16, 2.65it/s]
Power Factorization: 60%	299/500 [01:52<01:15, 2.67it/s]
Power Factorization: 60%	300/500 [01:53<01:15, 2.66it/s]
Power Factorization: 60%	301/500 [01:53<01:15, 2.63it/s]
Power Factorization: 60%	302/500 [01:53<01:11, 2.75it/s]

Power Factorization: 61%	303/500 [01:54<01:09, 2.82it/s]
Power Factorization: 61%	304/500 [01:54<01:10, 2.76it/s]
Power Factorization: 61%	305/500 [01:54<01:12, 2.69it/s]
Power Factorization: 61%	306/500 [01:55<01:10, 2.74it/s]
Power Factorization: 61%	307/500 [01:55<01:08, 2.81it/s]
Power Factorization: 62%	308/500 [01:56<01:13, 2.60it/s]
Power Factorization: 62%	309/500 [01:56<01:13, 2.60it/s]
Power Factorization: 62%	310/500 [01:56<01:11, 2.66it/s]
Power Factorization: 62%	311/500 [01:57<01:08, 2.76it/s]
Power Factorization: 62%	312/500 [01:57<01:05, 2.87it/s]
Power Factorization: 63%	313/500 [01:57<01:05, 2.87it/s]
Power Factorization: 63%	314/500 [01:58<01:06, 2.79it/s]
Power Factorization: 63%	315/500 [01:58<01:05, 2.81it/s]
Power Factorization: 63%	316/500 [01:58<01:07, 2.74it/s]
Power Factorization: 63%	317/500 [01:59<01:05, 2.80it/s]
Power Factorization: 64%	318/500 [01:59<01:08, 2.65it/s]
Power Factorization: 64%	319/500 [02:00<01:06, 2.71it/s]
Power Factorization: 64%	320/500 [02:00<01:05, 2.76it/s]
Power Factorization: 64%	321/500 [02:00<01:05, 2.71it/s]
Power Factorization: 64%	322/500 [02:01<01:07, 2.65it/s]
Power Factorization: 65%	323/500 [02:01<01:04, 2.73it/s]
Power Factorization: 65%	324/500 [02:01<01:04, 2.72it/s]
Power Factorization: 65%	325/500 [02:02<01:07, 2.58it/s]
Power Factorization: 65%	326/500 [02:02<01:05, 2.66it/s]

Power Factorization: 65%	327/500 [02:03<01:05, 2.65it/s]
Power Factorization: 66%	328/500 [02:03<01:05, 2.64it/s]
Power Factorization: 66%	329/500 [02:03<01:04, 2.67it/s]
Power Factorization: 66%	330/500 [02:04<01:01, 2.74it/s]
Power Factorization: 66%	331/500 [02:04<01:01, 2.76it/s]
Power Factorization: 66%	332/500 [02:04<01:01, 2.75it/s]
Power Factorization: 67%	333/500 [02:05<01:00, 2.74it/s]
Power Factorization: 67%	334/500 [02:05<01:01, 2.70it/s]
Power Factorization: 67%	335/500 [02:06<01:02, 2.63it/s]
Power Factorization: 67%	336/500 [02:06<01:02, 2.61it/s]
Power Factorization: 67%	337/500 [02:06<01:02, 2.62it/s]
Power Factorization: 68%	338/500 [02:07<01:01, 2.64it/s]
Power Factorization: 68%	339/500 [02:07<01:02, 2.57it/s]
Power Factorization: 68%	340/500 [02:07<01:01, 2.60it/s]
Power Factorization: 68%	341/500 [02:08<01:00, 2.65it/s]
Power Factorization: 68%	342/500 [02:08<00:59, 2.68it/s]
Power Factorization: 69%	343/500 [02:09<00:57, 2.71it/s]
Power Factorization: 69%	344/500 [02:09<00:57, 2.72it/s]
Power Factorization: 69%	345/500 [02:09<00:59, 2.59it/s]
Power Factorization: 69%	346/500 [02:10<00:57, 2.67it/s]
Power Factorization: 69%	347/500 [02:10<00:56, 2.73it/s]
Power Factorization: 70%	348/500 [02:10<00:57, 2.63it/s]
Power Factorization: 70%	349/500 [02:11<00:56, 2.65it/s]
Power Factorization: 70%	350/500 [02:11<00:58, 2.57it/s]

Power Factorization: 70%	351/500 [02:12<00:57, 2.58it/s]
Power Factorization: 70%	352/500 [02:12<00:55, 2.65it/s]
Power Factorization: 71%	353/500 [02:12<00:55, 2.64it/s]
Power Factorization: 71%	354/500 [02:13<00:55, 2.63it/s]
Power Factorization: 71%	355/500 [02:13<00:53, 2.73it/s]
Power Factorization: 71%	356/500 [02:13<00:52, 2.77it/s]
Power Factorization: 71%	357/500 [02:14<00:53, 2.67it/s]
Power Factorization: 72%	358/500 [02:14<00:52, 2.69it/s]
Power Factorization: 72%	359/500 [02:15<00:51, 2.73it/s]
Power Factorization: 72%	360/500 [02:15<00:51, 2.72it/s]
Power Factorization: 72%	361/500 [02:15<00:48, 2.84it/s]
Power Factorization: 72%	362/500 [02:16<00:49, 2.77it/s]
Power Factorization: 73%	363/500 [02:16<00:48, 2.81it/s]
Power Factorization: 73%	364/500 [02:16<00:49, 2.72it/s]
Power Factorization: 73%	365/500 [02:17<00:51, 2.62it/s]
Power Factorization: 73%	366/500 [02:17<00:49, 2.72it/s]
Power Factorization: 73%	367/500 [02:17<00:49, 2.71it/s]
Power Factorization: 74%	368/500 [02:18<00:47, 2.77it/s]
Power Factorization: 74%	369/500 [02:18<00:47, 2.76it/s]
Power Factorization: 74%	370/500 [02:19<00:47, 2.75it/s]
Power Factorization: 74%	371/500 [02:19<00:46, 2.75it/s]
Power Factorization: 74%	372/500 [02:19<00:46, 2.75it/s]
Power Factorization: 75%	373/500 [02:20<00:45, 2.77it/s]
Power Factorization: 75%	374/500 [02:20<00:45, 2.79it/s]

Power Factorization: 75%	375/500 [02:20<00:43,	2.85it/s]
Power Factorization: 75%	376/500 [02:21<00:43,	2.85it/s]
Power Factorization: 75%	377/500 [02:21<00:41,	2.94it/s]
Power Factorization: 76%	378/500 [02:21<00:41,	2.93it/s]
Power Factorization: 76%	379/500 [02:22<00:43,	2.81it/s]
Power Factorization: 76%	380/500 [02:22<00:41,	2.91it/s]
Power Factorization: 76%	381/500 [02:22<00:41,	2.84it/s]
Power Factorization: 76%	382/500 [02:23<00:44,	2.65it/s]
Power Factorization: 77%	383/500 [02:23<00:42,	2.74it/s]
Power Factorization: 77%	384/500 [02:24<00:41,	2.78it/s]
Power Factorization: 77%	385/500 [02:24<00:43,	2.64it/s]
Power Factorization: 77%	386/500 [02:24<00:41,	2.75it/s]
Power Factorization: 77%	387/500 [02:25<00:40,	2.81it/s]
Power Factorization: 78%	388/500 [02:25<00:40,	2.79it/s]
Power Factorization: 78%	389/500 [02:25<00:38,	2.87it/s]
Power Factorization: 78%	390/500 [02:26<00:38,	2.86it/s]
Power Factorization: 78%	391/500 [02:26<00:39,	2.75it/s]
Power Factorization: 78%	392/500 [02:26<00:38,	2.78it/s]
Power Factorization: 79%	393/500 [02:27<00:39,	2.72it/s]
Power Factorization: 79%	394/500 [02:27<00:38,	2.74it/s]
Power Factorization: 79%	395/500 [02:28<00:38,	2.73it/s]
Power Factorization: 79%	396/500 [02:28<00:38,	2.67it/s]
Power Factorization: 79%	397/500 [02:28<00:37,	2.73it/s]
Power Factorization: 80%	398/500 [02:29<00:36,	2.78it/s]

Power Factorization: 80%	399/500 [02:29<00:35, 2.83it/s]
Power Factorization: 80%	400/500 [02:29<00:35, 2.83it/s]
Power Factorization: 80%	401/500 [02:30<00:35, 2.78it/s]
Power Factorization: 80%	402/500 [02:30<00:36, 2.65it/s]
Power Factorization: 81%	403/500 [02:30<00:35, 2.70it/s]
Power Factorization: 81%	404/500 [02:31<00:34, 2.76it/s]
Power Factorization: 81%	405/500 [02:31<00:34, 2.78it/s]
Power Factorization: 81%	406/500 [02:31<00:33, 2.80it/s]
Power Factorization: 81%	407/500 [02:32<00:32, 2.83it/s]
Power Factorization: 82%	408/500 [02:32<00:34, 2.64it/s]
Power Factorization: 82%	409/500 [02:33<00:33, 2.73it/s]
Power Factorization: 82%	410/500 [02:33<00:33, 2.66it/s]
Power Factorization: 82%	411/500 [02:33<00:32, 2.70it/s]
Power Factorization: 82%	412/500 [02:34<00:32, 2.73it/s]
Power Factorization: 83%	413/500 [02:34<00:31, 2.79it/s]
Power Factorization: 83%	414/500 [02:34<00:32, 2.64it/s]
Power Factorization: 83%	415/500 [02:35<00:32, 2.63it/s]
Power Factorization: 83%	416/500 [02:35<00:30, 2.73it/s]
Power Factorization: 83%	417/500 [02:36<00:29, 2.78it/s]
Power Factorization: 84%	418/500 [02:36<00:29, 2.82it/s]
Power Factorization: 84%	419/500 [02:36<00:27, 2.92it/s]
Power Factorization: 84%	420/500 [02:37<00:28, 2.85it/s]
Power Factorization: 84%	421/500 [02:37<00:29, 2.66it/s]
Power Factorization: 84%	422/500 [02:37<00:29, 2.64it/s]

Power Factorization: 85%	423/500 [02:38<00:27,	2.82it/s]
Power Factorization: 85%	424/500 [02:38<00:26,	2.85it/s]
Power Factorization: 85%	425/500 [02:38<00:26,	2.82it/s]
Power Factorization: 85%	426/500 [02:39<00:27,	2.67it/s]
Power Factorization: 85%	427/500 [02:39<00:27,	2.62it/s]
Power Factorization: 86%	428/500 [02:40<00:26,	2.70it/s]
Power Factorization: 86%	429/500 [02:40<00:25,	2.78it/s]
Power Factorization: 86%	430/500 [02:40<00:25,	2.72it/s]
Power Factorization: 86%	431/500 [02:41<00:25,	2.76it/s]
Power Factorization: 86%	432/500 [02:41<00:25,	2.71it/s]
Power Factorization: 87%	433/500 [02:41<00:24,	2.78it/s]
Power Factorization: 87%	434/500 [02:42<00:23,	2.86it/s]
Power Factorization: 87%	435/500 [02:42<00:22,	2.85it/s]
Power Factorization: 87%	436/500 [02:42<00:22,	2.84it/s]
Power Factorization: 87%	437/500 [02:43<00:22,	2.78it/s]
Power Factorization: 88%	438/500 [02:43<00:22,	2.72it/s]
Power Factorization: 88%	439/500 [02:44<00:22,	2.74it/s]
Power Factorization: 88%	440/500 [02:44<00:21,	2.73it/s]
Power Factorization: 88%	441/500 [02:44<00:21,	2.69it/s]
Power Factorization: 88%	442/500 [02:45<00:22,	2.58it/s]
Power Factorization: 89%	443/500 [02:45<00:21,	2.67it/s]
Power Factorization: 89%	444/500 [02:45<00:20,	2.69it/s]
Power Factorization: 89%	445/500 [02:46<00:19,	2.75it/s]
Power Factorization: 89%	446/500 [02:46<00:19,	2.75it/s]

Power Factorization: 89%	447/500 [02:46<00:18,	2.85it/s]
Power Factorization: 90%	448/500 [02:47<00:18,	2.76it/s]
Power Factorization: 90%	449/500 [02:47<00:18,	2.82it/s]
Power Factorization: 90%	450/500 [02:47<00:17,	2.88it/s]
Power Factorization: 90%	451/500 [02:48<00:17,	2.76it/s]
Power Factorization: 90%	452/500 [02:48<00:17,	2.72it/s]
Power Factorization: 91%	453/500 [02:49<00:17,	2.75it/s]
Power Factorization: 91%	454/500 [02:49<00:16,	2.82it/s]
Power Factorization: 91%	455/500 [02:49<00:15,	2.82it/s]
Power Factorization: 91%	456/500 [02:50<00:15,	2.80it/s]
Power Factorization: 91%	457/500 [02:50<00:15,	2.74it/s]
Power Factorization: 92%	458/500 [02:50<00:15,	2.79it/s]
Power Factorization: 92%	459/500 [02:51<00:14,	2.80it/s]
Power Factorization: 92%	460/500 [02:51<00:14,	2.77it/s]
Power Factorization: 92%	461/500 [02:51<00:13,	2.81it/s]
Power Factorization: 92%	462/500 [02:52<00:13,	2.84it/s]
Power Factorization: 93%	463/500 [02:52<00:13,	2.79it/s]
Power Factorization: 93%	464/500 [02:53<00:12,	2.83it/s]
Power Factorization: 93%	465/500 [02:53<00:12,	2.82it/s]
Power Factorization: 93%	466/500 [02:53<00:11,	2.86it/s]
Power Factorization: 93%	467/500 [02:54<00:11,	2.82it/s]
Power Factorization: 94%	468/500 [02:54<00:11,	2.80it/s]
Power Factorization: 94%	469/500 [02:54<00:10,	2.86it/s]
Power Factorization: 94%	470/500 [02:55<00:11,	2.69it/s]

Power Factorization: 94%	471/500 [02:55<00:10, 2.68it/s]
Power Factorization: 94%	472/500 [02:55<00:10, 2.71it/s]
Power Factorization: 95%	473/500 [02:56<00:09, 2.77it/s]
Power Factorization: 95%	474/500 [02:56<00:09, 2.81it/s]
Power Factorization: 95%	475/500 [02:56<00:09, 2.77it/s]
Power Factorization: 95%	476/500 [02:57<00:08, 2.74it/s]
Power Factorization: 95%	477/500 [02:57<00:08, 2.79it/s]
Power Factorization: 96%	478/500 [02:58<00:07, 2.94it/s]
Power Factorization: 96%	479/500 [02:58<00:07, 2.85it/s]
Power Factorization: 96%	480/500 [02:58<00:07, 2.76it/s]
Power Factorization: 96%	481/500 [02:59<00:06, 2.78it/s]
Power Factorization: 96%	482/500 [02:59<00:06, 2.83it/s]
Power Factorization: 97%	483/500 [02:59<00:06, 2.79it/s]
Power Factorization: 97%	484/500 [03:00<00:05, 2.79it/s]
Power Factorization: 97%	485/500 [03:00<00:05, 2.73it/s]
Power Factorization: 97%	486/500 [03:00<00:05, 2.64it/s]
Power Factorization: 97%	487/500 [03:01<00:04, 2.73it/s]
Power Factorization: 98%	488/500 [03:01<00:04, 2.68it/s]
Power Factorization: 98%	489/500 [03:02<00:04, 2.71it/s]
Power Factorization: 98%	490/500 [03:02<00:03, 2.56it/s]
Power Factorization: 98%	491/500 [03:02<00:03, 2.53it/s]
Power Factorization: 98%	492/500 [03:03<00:03, 2.54it/s]
Power Factorization: 99%	493/500 [03:03<00:02, 2.54it/s]
Power Factorization: 99%	494/500 [03:04<00:02, 2.58it/s]

Power Factorization: 99%| | 495/500 [03:04<00:01, 2.54it/s]
Power Factorization: 99%| | 496/500 [03:04<00:01, 2.57it/s]
Power Factorization: 99%| | 497/500 [03:05<00:01, 2.68it/s]
Power Factorization: 100%| | 498/500 [03:05<00:00, 2.76it/s]
Power Factorization: 100%| | 499/500 [03:05<00:00, 2.78it/s]
Power Factorization: 100%| | 500/500 [03:06<00:00, 2.68it/s]
Cross Validation: 100%| | 5/5 [16:16<00:00, 195.25s/it]
Grid Search: 62%| | 10/16 [1:35:16<1:15:28, 754.71s/it]
Average RMS for k=15, lambda=1: 2.8337, Execution time: 195.1779s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]
Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]
Power Factorization: 0%| | 1/500 [00:00<03:07, 2.66it/s]
Power Factorization: 0%| | 2/500 [00:00<03:01, 2.74it/s]
Power Factorization: 1%| | 3/500 [00:01<02:46, 2.99it/s]
Power Factorization: 1%| | 4/500 [00:01<02:58, 2.78it/s]
Power Factorization: 1%| | 5/500 [00:01<03:01, 2.72it/s]
Power Factorization: 1%| | 6/500 [00:02<02:55, 2.81it/s]
Power Factorization: 1%| | 7/500 [00:02<02:50, 2.88it/s]
Power Factorization: 2%| | 8/500 [00:02<02:59, 2.74it/s]
Power Factorization: 2%| | 9/500 [00:03<02:59, 2.73it/s]
Power Factorization: 2%| | 10/500 [00:03<03:01, 2.69it/s]
Power Factorization: 2%| | 11/500 [00:03<02:50, 2.86it/s]
Power Factorization: 2%| | 12/500 [00:04<02:50, 2.86it/s]
Power Factorization: 3%| | 13/500 [00:04<02:54, 2.79it/s]
Power Factorization: 3%| | 14/500 [00:05<02:53, 2.81it/s]

Power Factorization:	3%	15/500	[00:05<02:57,	2.73it/s]
Power Factorization:	3%	16/500	[00:05<02:54,	2.77it/s]
Power Factorization:	3%	17/500	[00:06<02:55,	2.76it/s]
Power Factorization:	4%	18/500	[00:06<02:59,	2.68it/s]
Power Factorization:	4%	19/500	[00:06<03:02,	2.64it/s]
Power Factorization:	4%	20/500	[00:07<02:53,	2.77it/s]
Power Factorization:	4%	21/500	[00:07<02:46,	2.88it/s]
Power Factorization:	4%	22/500	[00:07<02:44,	2.91it/s]
Power Factorization:	5%	23/500	[00:08<02:49,	2.81it/s]
Power Factorization:	5%	24/500	[00:08<02:54,	2.73it/s]
Power Factorization:	5%	25/500	[00:09<02:53,	2.74it/s]
Power Factorization:	5%	26/500	[00:09<02:49,	2.79it/s]
Power Factorization:	5%	27/500	[00:09<02:46,	2.84it/s]
Power Factorization:	6%	28/500	[00:10<02:47,	2.82it/s]
Power Factorization:	6%	29/500	[00:10<02:49,	2.78it/s]
Power Factorization:	6%	30/500	[00:10<02:49,	2.77it/s]
Power Factorization:	6%	31/500	[00:11<02:54,	2.69it/s]
Power Factorization:	6%	32/500	[00:11<02:50,	2.75it/s]
Power Factorization:	7%	33/500	[00:11<02:54,	2.68it/s]
Power Factorization:	7%	34/500	[00:12<02:51,	2.71it/s]
Power Factorization:	7%	35/500	[00:12<02:52,	2.70it/s]
Power Factorization:	7%	36/500	[00:13<03:00,	2.56it/s]
Power Factorization:	7%	37/500	[00:13<02:54,	2.65it/s]
Power Factorization:	8%	38/500	[00:13<02:45,	2.79it/s]

Power Factorization:	8%	39/500 [00:14<02:45, 2.79it/s]
Power Factorization:	8%	40/500 [00:14<02:44, 2.80it/s]
Power Factorization:	8%	41/500 [00:14<02:36, 2.94it/s]
Power Factorization:	8%	42/500 [00:15<02:37, 2.90it/s]
Power Factorization:	9%	43/500 [00:15<02:34, 2.95it/s]
Power Factorization:	9%	44/500 [00:15<02:35, 2.93it/s]
Power Factorization:	9%	45/500 [00:16<02:33, 2.96it/s]
Power Factorization:	9%	46/500 [00:16<02:29, 3.04it/s]
Power Factorization:	9%	47/500 [00:16<02:37, 2.88it/s]
Power Factorization:	10%	48/500 [00:17<02:36, 2.89it/s]
Power Factorization:	10%	49/500 [00:17<02:41, 2.79it/s]
Power Factorization:	10%	50/500 [00:17<02:35, 2.89it/s]
Power Factorization:	10%	51/500 [00:18<02:33, 2.93it/s]
Power Factorization:	10%	52/500 [00:18<02:29, 3.01it/s]
Power Factorization:	11%	53/500 [00:18<02:29, 2.99it/s]
Power Factorization:	11%	54/500 [00:19<02:32, 2.93it/s]
Power Factorization:	11%	55/500 [00:19<02:36, 2.84it/s]
Power Factorization:	11%	56/500 [00:19<02:37, 2.83it/s]
Power Factorization:	11%	57/500 [00:20<02:40, 2.76it/s]
Power Factorization:	12%	58/500 [00:20<02:44, 2.68it/s]
Power Factorization:	12%	59/500 [00:21<02:47, 2.64it/s]
Power Factorization:	12%	60/500 [00:21<02:42, 2.70it/s]
Power Factorization:	12%	61/500 [00:21<02:46, 2.64it/s]
Power Factorization:	12%	62/500 [00:22<02:44, 2.66it/s]

Power Factorization: 13%	63/500 [00:22<02:36,	2.79it/s]
Power Factorization: 13%	64/500 [00:22<02:38,	2.75it/s]
Power Factorization: 13%	65/500 [00:23<02:35,	2.80it/s]
Power Factorization: 13%	66/500 [00:23<02:31,	2.87it/s]
Power Factorization: 13%	67/500 [00:23<02:30,	2.88it/s]
Power Factorization: 14%	68/500 [00:24<02:29,	2.88it/s]
Power Factorization: 14%	69/500 [00:24<02:24,	2.98it/s]
Power Factorization: 14%	70/500 [00:24<02:25,	2.96it/s]
Power Factorization: 14%	71/500 [00:25<02:27,	2.91it/s]
Power Factorization: 14%	72/500 [00:25<02:25,	2.93it/s]
Power Factorization: 15%	73/500 [00:25<02:22,	3.00it/s]
Power Factorization: 15%	74/500 [00:26<02:27,	2.90it/s]
Power Factorization: 15%	75/500 [00:26<02:27,	2.88it/s]
Power Factorization: 15%	76/500 [00:27<02:31,	2.80it/s]
Power Factorization: 15%	77/500 [00:27<02:25,	2.92it/s]
Power Factorization: 16%	78/500 [00:27<02:20,	3.00it/s]
Power Factorization: 16%	79/500 [00:28<02:25,	2.89it/s]
Power Factorization: 16%	80/500 [00:28<02:21,	2.97it/s]
Power Factorization: 16%	81/500 [00:28<02:22,	2.95it/s]
Power Factorization: 16%	82/500 [00:29<02:18,	3.03it/s]
Power Factorization: 17%	83/500 [00:29<02:17,	3.03it/s]
Power Factorization: 17%	84/500 [00:29<02:19,	2.98it/s]
Power Factorization: 17%	85/500 [00:30<02:24,	2.87it/s]
Power Factorization: 17%	86/500 [00:30<02:21,	2.93it/s]

Power Factorization: 17%	87/500 [00:30<02:17, 3.00it/s]
Power Factorization: 18%	88/500 [00:31<02:17, 3.00it/s]
Power Factorization: 18%	89/500 [00:31<02:21, 2.91it/s]
Power Factorization: 18%	90/500 [00:31<02:18, 2.95it/s]
Power Factorization: 18%	91/500 [00:32<02:20, 2.91it/s]
Power Factorization: 18%	92/500 [00:32<02:23, 2.84it/s]
Power Factorization: 19%	93/500 [00:32<02:22, 2.86it/s]
Power Factorization: 19%	94/500 [00:33<02:24, 2.81it/s]
Power Factorization: 19%	95/500 [00:33<02:20, 2.89it/s]
Power Factorization: 19%	96/500 [00:33<02:24, 2.80it/s]
Power Factorization: 19%	97/500 [00:34<02:25, 2.77it/s]
Power Factorization: 20%	98/500 [00:34<02:22, 2.83it/s]
Power Factorization: 20%	99/500 [00:34<02:24, 2.77it/s]
Power Factorization: 20%	100/500 [00:35<02:23, 2.78it/s]
Power Factorization: 20%	101/500 [00:35<02:22, 2.81it/s]
Power Factorization: 20%	102/500 [00:36<02:23, 2.78it/s]
Power Factorization: 21%	103/500 [00:36<02:21, 2.80it/s]
Power Factorization: 21%	104/500 [00:36<02:19, 2.84it/s]
Power Factorization: 21%	105/500 [00:37<02:17, 2.88it/s]
Power Factorization: 21%	106/500 [00:37<02:16, 2.88it/s]
Power Factorization: 21%	107/500 [00:37<02:17, 2.85it/s]
Power Factorization: 22%	108/500 [00:38<02:33, 2.55it/s]
Power Factorization: 22%	109/500 [00:38<02:31, 2.58it/s]
Power Factorization: 22%	110/500 [00:38<02:26, 2.66it/s]

Power Factorization: 22%	111/500 [00:39<02:24, 2.69it/s]
Power Factorization: 22%	112/500 [00:39<02:22, 2.72it/s]
Power Factorization: 23%	113/500 [00:40<02:23, 2.70it/s]
Power Factorization: 23%	114/500 [00:40<02:14, 2.87it/s]
Power Factorization: 23%	115/500 [00:40<02:13, 2.88it/s]
Power Factorization: 23%	116/500 [00:41<02:19, 2.75it/s]
Power Factorization: 23%	117/500 [00:41<02:17, 2.79it/s]
Power Factorization: 24%	118/500 [00:41<02:05, 3.04it/s]
Power Factorization: 24%	119/500 [00:42<02:05, 3.03it/s]
Power Factorization: 24%	120/500 [00:42<02:10, 2.91it/s]
Power Factorization: 24%	121/500 [00:42<02:12, 2.85it/s]
Power Factorization: 24%	122/500 [00:43<02:12, 2.85it/s]
Power Factorization: 25%	123/500 [00:43<02:09, 2.92it/s]
Power Factorization: 25%	124/500 [00:43<02:07, 2.95it/s]
Power Factorization: 25%	125/500 [00:44<02:08, 2.92it/s]
Power Factorization: 25%	126/500 [00:44<02:05, 2.98it/s]
Power Factorization: 25%	127/500 [00:44<02:01, 3.06it/s]
Power Factorization: 26%	128/500 [00:45<01:58, 3.13it/s]
Power Factorization: 26%	129/500 [00:45<02:01, 3.05it/s]
Power Factorization: 26%	130/500 [00:45<02:02, 3.02it/s]
Power Factorization: 26%	131/500 [00:46<02:07, 2.90it/s]
Power Factorization: 26%	132/500 [00:46<02:10, 2.82it/s]
Power Factorization: 27%	133/500 [00:46<02:08, 2.86it/s]
Power Factorization: 27%	134/500 [00:47<02:12, 2.76it/s]

Power Factorization: 27%	135/500 [00:47<02:21, 2.58it/s]
Power Factorization: 27%	136/500 [00:48<02:22, 2.55it/s]
Power Factorization: 27%	137/500 [00:48<02:12, 2.74it/s]
Power Factorization: 28%	138/500 [00:48<02:14, 2.70it/s]
Power Factorization: 28%	139/500 [00:49<02:07, 2.84it/s]
Power Factorization: 28%	140/500 [00:49<02:05, 2.87it/s]
Power Factorization: 28%	141/500 [00:49<02:06, 2.84it/s]
Power Factorization: 28%	142/500 [00:50<02:04, 2.88it/s]
Power Factorization: 29%	143/500 [00:50<02:04, 2.86it/s]
Power Factorization: 29%	144/500 [00:50<02:08, 2.77it/s]
Power Factorization: 29%	145/500 [00:51<02:01, 2.92it/s]
Power Factorization: 29%	146/500 [00:51<01:57, 3.02it/s]
Power Factorization: 29%	147/500 [00:51<01:58, 2.98it/s]
Power Factorization: 30%	148/500 [00:52<01:59, 2.94it/s]
Power Factorization: 30%	149/500 [00:52<02:00, 2.92it/s]
Power Factorization: 30%	150/500 [00:52<02:00, 2.91it/s]
Power Factorization: 30%	151/500 [00:53<01:56, 2.98it/s]
Power Factorization: 30%	152/500 [00:53<01:58, 2.94it/s]
Power Factorization: 31%	153/500 [00:53<02:05, 2.77it/s]
Power Factorization: 31%	154/500 [00:54<02:04, 2.78it/s]
Power Factorization: 31%	155/500 [00:54<02:00, 2.87it/s]
Power Factorization: 31%	156/500 [00:55<02:01, 2.84it/s]
Power Factorization: 31%	157/500 [00:55<02:00, 2.84it/s]
Power Factorization: 32%	158/500 [00:55<01:57, 2.90it/s]

Power Factorization: 32%	159/500 [00:56<02:03, 2.77it/s]
Power Factorization: 32%	160/500 [00:56<02:01, 2.81it/s]
Power Factorization: 32%	161/500 [00:56<01:58, 2.86it/s]
Power Factorization: 32%	162/500 [00:57<01:53, 2.99it/s]
Power Factorization: 33%	163/500 [00:57<01:50, 3.04it/s]
Power Factorization: 33%	164/500 [00:57<01:51, 3.02it/s]
Power Factorization: 33%	165/500 [00:58<01:53, 2.96it/s]
Power Factorization: 33%	166/500 [00:58<01:49, 3.06it/s]
Power Factorization: 33%	167/500 [00:58<01:49, 3.05it/s]
Power Factorization: 34%	168/500 [00:59<01:49, 3.04it/s]
Power Factorization: 34%	169/500 [00:59<01:48, 3.05it/s]
Power Factorization: 34%	170/500 [00:59<01:48, 3.05it/s]
Power Factorization: 34%	171/500 [00:59<01:45, 3.11it/s]
Power Factorization: 34%	172/500 [01:00<01:42, 3.20it/s]
Power Factorization: 35%	173/500 [01:00<01:38, 3.31it/s]
Power Factorization: 35%	174/500 [01:00<01:41, 3.21it/s]
Power Factorization: 35%	175/500 [01:01<01:44, 3.11it/s]
Power Factorization: 35%	176/500 [01:01<01:47, 3.00it/s]
Power Factorization: 35%	177/500 [01:01<01:49, 2.94it/s]
Power Factorization: 36%	178/500 [01:02<01:47, 2.98it/s]
Power Factorization: 36%	179/500 [01:02<01:50, 2.92it/s]
Power Factorization: 36%	180/500 [01:02<01:51, 2.88it/s]
Power Factorization: 36%	181/500 [01:03<01:48, 2.94it/s]
Power Factorization: 36%	182/500 [01:03<01:48, 2.93it/s]

Power Factorization: 37%	183/500 [01:03<01:46,	2.98it/s]
Power Factorization: 37%	184/500 [01:04<01:48,	2.92it/s]
Power Factorization: 37%	185/500 [01:04<01:48,	2.91it/s]
Power Factorization: 37%	186/500 [01:05<01:46,	2.94it/s]
Power Factorization: 37%	187/500 [01:05<01:46,	2.93it/s]
Power Factorization: 38%	188/500 [01:05<01:46,	2.94it/s]
Power Factorization: 38%	189/500 [01:06<01:46,	2.91it/s]
Power Factorization: 38%	190/500 [01:06<01:51,	2.78it/s]
Power Factorization: 38%	191/500 [01:06<01:50,	2.80it/s]
Power Factorization: 38%	192/500 [01:07<01:44,	2.95it/s]
Power Factorization: 39%	193/500 [01:07<01:48,	2.82it/s]
Power Factorization: 39%	194/500 [01:07<01:47,	2.84it/s]
Power Factorization: 39%	195/500 [01:08<01:47,	2.83it/s]
Power Factorization: 39%	196/500 [01:08<01:45,	2.87it/s]
Power Factorization: 39%	197/500 [01:08<01:48,	2.80it/s]
Power Factorization: 40%	198/500 [01:09<01:48,	2.78it/s]
Power Factorization: 40%	199/500 [01:09<01:52,	2.69it/s]
Power Factorization: 40%	200/500 [01:10<01:47,	2.79it/s]
Power Factorization: 40%	201/500 [01:10<01:43,	2.88it/s]
Power Factorization: 40%	202/500 [01:10<01:43,	2.88it/s]
Power Factorization: 41%	203/500 [01:11<01:42,	2.91it/s]
Power Factorization: 41%	204/500 [01:11<01:43,	2.85it/s]
Power Factorization: 41%	205/500 [01:11<01:44,	2.83it/s]
Power Factorization: 41%	206/500 [01:12<01:43,	2.84it/s]

Power Factorization: 41%	207/500 [01:12<01:46, 2.74it/s]
Power Factorization: 42%	208/500 [01:12<01:45, 2.77it/s]
Power Factorization: 42%	209/500 [01:13<01:41, 2.86it/s]
Power Factorization: 42%	210/500 [01:13<01:43, 2.79it/s]
Power Factorization: 42%	211/500 [01:13<01:41, 2.86it/s]
Power Factorization: 42%	212/500 [01:14<01:39, 2.89it/s]
Power Factorization: 43%	213/500 [01:14<01:41, 2.82it/s]
Power Factorization: 43%	214/500 [01:14<01:39, 2.86it/s]
Power Factorization: 43%	215/500 [01:15<01:42, 2.78it/s]
Power Factorization: 43%	216/500 [01:15<01:43, 2.74it/s]
Power Factorization: 43%	217/500 [01:16<01:40, 2.81it/s]
Power Factorization: 44%	218/500 [01:16<01:35, 2.94it/s]
Power Factorization: 44%	219/500 [01:16<01:30, 3.09it/s]
Power Factorization: 44%	220/500 [01:16<01:35, 2.94it/s]
Power Factorization: 44%	221/500 [01:17<01:34, 2.96it/s]
Power Factorization: 44%	222/500 [01:17<01:33, 2.97it/s]
Power Factorization: 45%	223/500 [01:18<01:37, 2.84it/s]
Power Factorization: 45%	224/500 [01:18<01:33, 2.94it/s]
Power Factorization: 45%	225/500 [01:18<01:33, 2.94it/s]
Power Factorization: 45%	226/500 [01:18<01:30, 3.02it/s]
Power Factorization: 45%	227/500 [01:19<01:31, 3.00it/s]
Power Factorization: 46%	228/500 [01:19<01:31, 2.96it/s]
Power Factorization: 46%	229/500 [01:20<01:31, 2.95it/s]
Power Factorization: 46%	230/500 [01:20<01:32, 2.90it/s]

Power Factorization: 46%	231/500 [01:20<01:31, 2.94it/s]
Power Factorization: 46%	232/500 [01:21<01:30, 2.95it/s]
Power Factorization: 47%	233/500 [01:21<01:29, 2.97it/s]
Power Factorization: 47%	234/500 [01:21<01:28, 3.01it/s]
Power Factorization: 47%	235/500 [01:22<01:29, 2.96it/s]
Power Factorization: 47%	236/500 [01:22<01:27, 3.02it/s]
Power Factorization: 47%	237/500 [01:22<01:25, 3.08it/s]
Power Factorization: 48%	238/500 [01:23<01:26, 3.04it/s]
Power Factorization: 48%	239/500 [01:23<01:28, 2.95it/s]
Power Factorization: 48%	240/500 [01:23<01:25, 3.03it/s]
Power Factorization: 48%	241/500 [01:24<01:27, 2.96it/s]
Power Factorization: 48%	242/500 [01:24<01:27, 2.96it/s]
Power Factorization: 49%	243/500 [01:24<01:28, 2.92it/s]
Power Factorization: 49%	244/500 [01:25<01:26, 2.95it/s]
Power Factorization: 49%	245/500 [01:25<01:25, 2.99it/s]
Power Factorization: 49%	246/500 [01:25<01:25, 2.98it/s]
Power Factorization: 49%	247/500 [01:26<01:25, 2.95it/s]
Power Factorization: 50%	248/500 [01:26<01:26, 2.92it/s]
Power Factorization: 50%	249/500 [01:26<01:27, 2.88it/s]
Power Factorization: 50%	250/500 [01:27<01:24, 2.95it/s]
Power Factorization: 50%	251/500 [01:27<01:23, 2.97it/s]
Power Factorization: 50%	252/500 [01:27<01:22, 2.99it/s]
Power Factorization: 51%	253/500 [01:28<01:23, 2.97it/s]
Power Factorization: 51%	254/500 [01:28<01:23, 2.94it/s]

Power Factorization: 51%	255/500 [01:28<01:26, 2.84it/s]
Power Factorization: 51%	256/500 [01:29<01:26, 2.82it/s]
Power Factorization: 51%	257/500 [01:29<01:25, 2.84it/s]
Power Factorization: 52%	258/500 [01:29<01:22, 2.92it/s]
Power Factorization: 52%	259/500 [01:30<01:20, 2.98it/s]
Power Factorization: 52%	260/500 [01:30<01:21, 2.95it/s]
Power Factorization: 52%	261/500 [01:30<01:20, 2.99it/s]
Power Factorization: 52%	262/500 [01:31<01:17, 3.07it/s]
Power Factorization: 53%	263/500 [01:31<01:15, 3.14it/s]
Power Factorization: 53%	264/500 [01:31<01:15, 3.11it/s]
Power Factorization: 53%	265/500 [01:32<01:17, 3.02it/s]
Power Factorization: 53%	266/500 [01:32<01:18, 2.97it/s]
Power Factorization: 53%	267/500 [01:32<01:21, 2.87it/s]
Power Factorization: 54%	268/500 [01:33<01:20, 2.87it/s]
Power Factorization: 54%	269/500 [01:33<01:20, 2.85it/s]
Power Factorization: 54%	270/500 [01:33<01:19, 2.90it/s]
Power Factorization: 54%	271/500 [01:34<01:19, 2.87it/s]
Power Factorization: 54%	272/500 [01:34<01:18, 2.91it/s]
Power Factorization: 55%	273/500 [01:34<01:15, 3.00it/s]
Power Factorization: 55%	274/500 [01:35<01:11, 3.16it/s]
Power Factorization: 55%	275/500 [01:35<01:16, 2.94it/s]
Power Factorization: 55%	276/500 [01:35<01:15, 2.96it/s]
Power Factorization: 55%	277/500 [01:36<01:18, 2.84it/s]
Power Factorization: 56%	278/500 [01:36<01:17, 2.87it/s]

Power Factorization: 56%	279/500 [01:36<01:14, 2.95it/s]
Power Factorization: 56%	280/500 [01:37<01:14, 2.95it/s]
Power Factorization: 56%	281/500 [01:37<01:14, 2.94it/s]
Power Factorization: 56%	282/500 [01:37<01:13, 2.98it/s]
Power Factorization: 57%	283/500 [01:38<01:12, 2.98it/s]
Power Factorization: 57%	284/500 [01:38<01:13, 2.93it/s]
Power Factorization: 57%	285/500 [01:38<01:14, 2.89it/s]
Power Factorization: 57%	286/500 [01:39<01:12, 2.94it/s]
Power Factorization: 57%	287/500 [01:39<01:11, 2.97it/s]
Power Factorization: 58%	288/500 [01:40<01:12, 2.91it/s]
Power Factorization: 58%	289/500 [01:40<01:17, 2.72it/s]
Power Factorization: 58%	290/500 [01:40<01:15, 2.79it/s]
Power Factorization: 58%	291/500 [01:41<01:15, 2.77it/s]
Power Factorization: 58%	292/500 [01:41<01:14, 2.78it/s]
Power Factorization: 59%	293/500 [01:41<01:13, 2.83it/s]
Power Factorization: 59%	294/500 [01:42<01:11, 2.87it/s]
Power Factorization: 59%	295/500 [01:42<01:11, 2.86it/s]
Power Factorization: 59%	296/500 [01:42<01:11, 2.85it/s]
Power Factorization: 59%	297/500 [01:43<01:08, 2.95it/s]
Power Factorization: 60%	298/500 [01:43<01:08, 2.94it/s]
Power Factorization: 60%	299/500 [01:43<01:08, 2.94it/s]
Power Factorization: 60%	300/500 [01:44<01:11, 2.79it/s]
Power Factorization: 60%	301/500 [01:44<01:11, 2.78it/s]
Power Factorization: 60%	302/500 [01:44<01:07, 2.91it/s]

Power Factorization: 61%	303/500 [01:45<01:07, 2.90it/s]
Power Factorization: 61%	304/500 [01:45<01:04, 3.04it/s]
Power Factorization: 61%	305/500 [01:45<01:02, 3.12it/s]
Power Factorization: 61%	306/500 [01:46<01:01, 3.15it/s]
Power Factorization: 61%	307/500 [01:46<01:03, 3.05it/s]
Power Factorization: 62%	308/500 [01:46<01:03, 3.03it/s]
Power Factorization: 62%	309/500 [01:47<01:03, 3.00it/s]
Power Factorization: 62%	310/500 [01:47<01:03, 2.99it/s]
Power Factorization: 62%	311/500 [01:47<01:04, 2.93it/s]
Power Factorization: 62%	312/500 [01:48<01:04, 2.90it/s]
Power Factorization: 63%	313/500 [01:48<01:04, 2.89it/s]
Power Factorization: 63%	314/500 [01:48<01:02, 2.98it/s]
Power Factorization: 63%	315/500 [01:49<01:03, 2.94it/s]
Power Factorization: 63%	316/500 [01:49<01:02, 2.93it/s]
Power Factorization: 63%	317/500 [01:50<01:07, 2.73it/s]
Power Factorization: 64%	318/500 [01:50<01:03, 2.85it/s]
Power Factorization: 64%	319/500 [01:50<01:03, 2.83it/s]
Power Factorization: 64%	320/500 [01:51<01:03, 2.82it/s]
Power Factorization: 64%	321/500 [01:51<01:04, 2.75it/s]
Power Factorization: 64%	322/500 [01:51<01:03, 2.79it/s]
Power Factorization: 65%	323/500 [01:52<01:03, 2.77it/s]
Power Factorization: 65%	324/500 [01:52<01:03, 2.79it/s]
Power Factorization: 65%	325/500 [01:52<01:03, 2.78it/s]
Power Factorization: 65%	326/500 [01:53<01:00, 2.89it/s]

Power Factorization: 65%	327/500 [01:53<01:00, 2.87it/s]
Power Factorization: 66%	328/500 [01:53<00:56, 3.02it/s]
Power Factorization: 66%	329/500 [01:54<00:54, 3.15it/s]
Power Factorization: 66%	330/500 [01:54<00:55, 3.07it/s]
Power Factorization: 66%	331/500 [01:54<00:55, 3.05it/s]
Power Factorization: 66%	332/500 [01:55<00:55, 3.02it/s]
Power Factorization: 67%	333/500 [01:55<00:54, 3.04it/s]
Power Factorization: 67%	334/500 [01:55<00:55, 3.01it/s]
Power Factorization: 67%	335/500 [01:56<00:53, 3.06it/s]
Power Factorization: 67%	336/500 [01:56<00:55, 2.95it/s]
Power Factorization: 67%	337/500 [01:56<00:55, 2.96it/s]
Power Factorization: 68%	338/500 [01:57<00:53, 3.04it/s]
Power Factorization: 68%	339/500 [01:57<00:52, 3.04it/s]
Power Factorization: 68%	340/500 [01:57<00:53, 3.01it/s]
Power Factorization: 68%	341/500 [01:58<00:52, 3.06it/s]
Power Factorization: 68%	342/500 [01:58<00:53, 2.94it/s]
Power Factorization: 69%	343/500 [01:58<00:53, 2.92it/s]
Power Factorization: 69%	344/500 [01:59<00:54, 2.88it/s]
Power Factorization: 69%	345/500 [01:59<00:53, 2.88it/s]
Power Factorization: 69%	346/500 [01:59<00:56, 2.72it/s]
Power Factorization: 69%	347/500 [02:00<00:53, 2.88it/s]
Power Factorization: 70%	348/500 [02:00<00:51, 2.96it/s]
Power Factorization: 70%	349/500 [02:00<00:50, 2.99it/s]
Power Factorization: 70%	350/500 [02:01<00:49, 3.01it/s]

Power Factorization: 70%	351/500 [02:01<00:49, 3.03it/s]
Power Factorization: 70%	352/500 [02:01<00:49, 2.97it/s]
Power Factorization: 71%	353/500 [02:02<00:51, 2.86it/s]
Power Factorization: 71%	354/500 [02:02<00:51, 2.83it/s]
Power Factorization: 71%	355/500 [02:03<00:51, 2.84it/s]
Power Factorization: 71%	356/500 [02:03<00:49, 2.89it/s]
Power Factorization: 71%	357/500 [02:03<00:48, 2.94it/s]
Power Factorization: 72%	358/500 [02:04<00:49, 2.86it/s]
Power Factorization: 72%	359/500 [02:04<00:50, 2.80it/s]
Power Factorization: 72%	360/500 [02:04<00:50, 2.77it/s]
Power Factorization: 72%	361/500 [02:05<00:50, 2.78it/s]
Power Factorization: 72%	362/500 [02:05<00:54, 2.52it/s]
Power Factorization: 73%	363/500 [02:05<00:52, 2.63it/s]
Power Factorization: 73%	364/500 [02:06<00:50, 2.72it/s]
Power Factorization: 73%	365/500 [02:06<00:48, 2.76it/s]
Power Factorization: 73%	366/500 [02:06<00:46, 2.87it/s]
Power Factorization: 73%	367/500 [02:07<00:47, 2.80it/s]
Power Factorization: 74%	368/500 [02:07<00:45, 2.88it/s]
Power Factorization: 74%	369/500 [02:07<00:43, 3.03it/s]
Power Factorization: 74%	370/500 [02:08<00:41, 3.17it/s]
Power Factorization: 74%	371/500 [02:08<00:41, 3.14it/s]
Power Factorization: 74%	372/500 [02:08<00:40, 3.15it/s]
Power Factorization: 75%	373/500 [02:09<00:41, 3.08it/s]
Power Factorization: 75%	374/500 [02:09<00:40, 3.13it/s]

Power Factorization: 75%	375/500 [02:09<00:39,	3.16it/s]
Power Factorization: 75%	376/500 [02:10<00:40,	3.04it/s]
Power Factorization: 75%	377/500 [02:10<00:40,	3.05it/s]
Power Factorization: 76%	378/500 [02:10<00:40,	2.98it/s]
Power Factorization: 76%	379/500 [02:11<00:40,	2.98it/s]
Power Factorization: 76%	380/500 [02:11<00:41,	2.88it/s]
Power Factorization: 76%	381/500 [02:11<00:41,	2.85it/s]
Power Factorization: 76%	382/500 [02:12<00:41,	2.87it/s]
Power Factorization: 77%	383/500 [02:12<00:41,	2.84it/s]
Power Factorization: 77%	384/500 [02:13<00:42,	2.73it/s]
Power Factorization: 77%	385/500 [02:13<00:43,	2.67it/s]
Power Factorization: 77%	386/500 [02:13<00:40,	2.80it/s]
Power Factorization: 77%	387/500 [02:14<00:39,	2.88it/s]
Power Factorization: 78%	388/500 [02:14<00:39,	2.80it/s]
Power Factorization: 78%	389/500 [02:14<00:40,	2.72it/s]
Power Factorization: 78%	390/500 [02:15<00:38,	2.83it/s]
Power Factorization: 78%	391/500 [02:15<00:37,	2.88it/s]
Power Factorization: 78%	392/500 [02:15<00:38,	2.84it/s]
Power Factorization: 79%	393/500 [02:16<00:36,	2.95it/s]
Power Factorization: 79%	394/500 [02:16<00:35,	2.97it/s]
Power Factorization: 79%	395/500 [02:16<00:35,	2.97it/s]
Power Factorization: 79%	396/500 [02:17<00:35,	2.94it/s]
Power Factorization: 79%	397/500 [02:17<00:34,	2.96it/s]
Power Factorization: 80%	398/500 [02:17<00:35,	2.87it/s]

Power Factorization: 80%	399/500 [02:18<00:34,	2.96it/s]
Power Factorization: 80%	400/500 [02:18<00:34,	2.93it/s]
Power Factorization: 80%	401/500 [02:18<00:34,	2.86it/s]
Power Factorization: 80%	402/500 [02:19<00:33,	2.92it/s]
Power Factorization: 81%	403/500 [02:19<00:32,	2.97it/s]
Power Factorization: 81%	404/500 [02:19<00:31,	3.08it/s]
Power Factorization: 81%	405/500 [02:20<00:32,	2.94it/s]
Power Factorization: 81%	406/500 [02:20<00:32,	2.92it/s]
Power Factorization: 81%	407/500 [02:20<00:31,	2.98it/s]
Power Factorization: 82%	408/500 [02:21<00:30,	3.01it/s]
Power Factorization: 82%	409/500 [02:21<00:30,	2.96it/s]
Power Factorization: 82%	410/500 [02:21<00:30,	2.95it/s]
Power Factorization: 82%	411/500 [02:22<00:32,	2.73it/s]
Power Factorization: 82%	412/500 [02:22<00:32,	2.70it/s]
Power Factorization: 83%	413/500 [02:23<00:31,	2.73it/s]
Power Factorization: 83%	414/500 [02:23<00:30,	2.79it/s]
Power Factorization: 83%	415/500 [02:23<00:29,	2.90it/s]
Power Factorization: 83%	416/500 [02:24<00:28,	2.92it/s]
Power Factorization: 83%	417/500 [02:24<00:29,	2.81it/s]
Power Factorization: 84%	418/500 [02:24<00:29,	2.77it/s]
Power Factorization: 84%	419/500 [02:25<00:27,	2.93it/s]
Power Factorization: 84%	420/500 [02:25<00:26,	2.97it/s]
Power Factorization: 84%	421/500 [02:25<00:27,	2.91it/s]
Power Factorization: 84%	422/500 [02:26<00:27,	2.85it/s]

Power Factorization: 85%	423/500 [02:26<00:27,	2.83it/s]
Power Factorization: 85%	424/500 [02:26<00:25,	2.97it/s]
Power Factorization: 85%	425/500 [02:27<00:25,	2.91it/s]
Power Factorization: 85%	426/500 [02:27<00:25,	2.89it/s]
Power Factorization: 85%	427/500 [02:27<00:25,	2.87it/s]
Power Factorization: 86%	428/500 [02:28<00:26,	2.76it/s]
Power Factorization: 86%	429/500 [02:28<00:25,	2.83it/s]
Power Factorization: 86%	430/500 [02:29<00:24,	2.81it/s]
Power Factorization: 86%	431/500 [02:29<00:25,	2.76it/s]
Power Factorization: 86%	432/500 [02:29<00:25,	2.68it/s]
Power Factorization: 87%	433/500 [02:30<00:24,	2.72it/s]
Power Factorization: 87%	434/500 [02:30<00:23,	2.85it/s]
Power Factorization: 87%	435/500 [02:30<00:22,	2.83it/s]
Power Factorization: 87%	436/500 [02:31<00:23,	2.67it/s]
Power Factorization: 87%	437/500 [02:31<00:23,	2.66it/s]
Power Factorization: 88%	438/500 [02:32<00:23,	2.62it/s]
Power Factorization: 88%	439/500 [02:32<00:23,	2.58it/s]
Power Factorization: 88%	440/500 [02:32<00:22,	2.62it/s]
Power Factorization: 88%	441/500 [02:33<00:21,	2.73it/s]
Power Factorization: 88%	442/500 [02:33<00:20,	2.79it/s]
Power Factorization: 89%	443/500 [02:33<00:20,	2.77it/s]
Power Factorization: 89%	444/500 [02:34<00:19,	2.81it/s]
Power Factorization: 89%	445/500 [02:34<00:19,	2.80it/s]
Power Factorization: 89%	446/500 [02:34<00:19,	2.84it/s]

Power Factorization: 89%	447/500 [02:35<00:18,	2.93it/s]
Power Factorization: 90%	448/500 [02:35<00:18,	2.89it/s]
Power Factorization: 90%	449/500 [02:35<00:17,	2.85it/s]
Power Factorization: 90%	450/500 [02:36<00:17,	2.91it/s]
Power Factorization: 90%	451/500 [02:36<00:16,	3.01it/s]
Power Factorization: 90%	452/500 [02:36<00:15,	3.05it/s]
Power Factorization: 91%	453/500 [02:37<00:15,	3.09it/s]
Power Factorization: 91%	454/500 [02:37<00:15,	3.06it/s]
Power Factorization: 91%	455/500 [02:37<00:15,	2.97it/s]
Power Factorization: 91%	456/500 [02:38<00:14,	2.97it/s]
Power Factorization: 91%	457/500 [02:38<00:14,	3.00it/s]
Power Factorization: 92%	458/500 [02:38<00:13,	3.05it/s]
Power Factorization: 92%	459/500 [02:39<00:14,	2.91it/s]
Power Factorization: 92%	460/500 [02:39<00:13,	2.91it/s]
Power Factorization: 92%	461/500 [02:39<00:13,	2.91it/s]
Power Factorization: 92%	462/500 [02:40<00:13,	2.82it/s]
Power Factorization: 93%	463/500 [02:40<00:12,	2.87it/s]
Power Factorization: 93%	464/500 [02:41<00:13,	2.71it/s]
Power Factorization: 93%	465/500 [02:41<00:12,	2.73it/s]
Power Factorization: 93%	466/500 [02:41<00:12,	2.80it/s]
Power Factorization: 93%	467/500 [02:42<00:11,	2.80it/s]
Power Factorization: 94%	468/500 [02:42<00:11,	2.81it/s]
Power Factorization: 94%	469/500 [02:42<00:10,	2.87it/s]
Power Factorization: 94%	470/500 [02:43<00:10,	2.83it/s]

Power Factorization: 94%	471/500 [02:43<00:09, 2.93it/s]
Power Factorization: 94%	472/500 [02:43<00:09, 2.89it/s]
Power Factorization: 95%	473/500 [02:44<00:09, 2.91it/s]
Power Factorization: 95%	474/500 [02:44<00:08, 2.96it/s]
Power Factorization: 95%	475/500 [02:44<00:08, 2.93it/s]
Power Factorization: 95%	476/500 [02:45<00:08, 2.89it/s]
Power Factorization: 95%	477/500 [02:45<00:07, 2.91it/s]
Power Factorization: 96%	478/500 [02:45<00:07, 3.00it/s]
Power Factorization: 96%	479/500 [02:46<00:07, 2.91it/s]
Power Factorization: 96%	480/500 [02:46<00:06, 2.86it/s]
Power Factorization: 96%	481/500 [02:46<00:06, 2.88it/s]
Power Factorization: 96%	482/500 [02:47<00:06, 2.80it/s]
Power Factorization: 97%	483/500 [02:47<00:06, 2.68it/s]
Power Factorization: 97%	484/500 [02:48<00:06, 2.54it/s]
Power Factorization: 97%	485/500 [02:48<00:05, 2.52it/s]
Power Factorization: 97%	486/500 [02:48<00:04, 2.81it/s]
Power Factorization: 97%	487/500 [02:49<00:04, 2.74it/s]
Power Factorization: 98%	488/500 [02:49<00:04, 2.78it/s]
Power Factorization: 98%	489/500 [02:49<00:03, 2.83it/s]
Power Factorization: 98%	490/500 [02:50<00:03, 2.79it/s]
Power Factorization: 98%	491/500 [02:50<00:03, 2.86it/s]
Power Factorization: 98%	492/500 [02:50<00:02, 2.88it/s]
Power Factorization: 99%	493/500 [02:51<00:02, 2.87it/s]
Power Factorization: 99%	494/500 [02:51<00:02, 2.86it/s]

Power Factorization: 99%	495/500 [02:52<00:01, 2.72it/s]
Power Factorization: 99%	496/500 [02:52<00:01, 2.65it/s]
Power Factorization: 99%	497/500 [02:52<00:01, 2.77it/s]
Power Factorization: 100%	498/500 [02:53<00:00, 2.87it/s]
Power Factorization: 100%	499/500 [02:53<00:00, 2.75it/s]
Power Factorization: 100%	500/500 [02:53<00:00, 2.88it/s]
Cross Validation: 20%	1/5 [02:53<11:35, 173.84s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:45, 3.01it/s]
Power Factorization: 0%	2/500 [00:00<02:45, 3.01it/s]
Power Factorization: 1%	3/500 [00:01<02:49, 2.93it/s]
Power Factorization: 1%	4/500 [00:01<02:55, 2.83it/s]
Power Factorization: 1%	5/500 [00:01<02:58, 2.77it/s]
Power Factorization: 1%	6/500 [00:02<02:53, 2.85it/s]
Power Factorization: 1%	7/500 [00:02<02:53, 2.85it/s]
Power Factorization: 2%	8/500 [00:02<02:52, 2.86it/s]
Power Factorization: 2%	9/500 [00:03<02:50, 2.88it/s]
Power Factorization: 2%	10/500 [00:03<03:00, 2.72it/s]
Power Factorization: 2%	11/500 [00:03<03:05, 2.64it/s]
Power Factorization: 2%	12/500 [00:04<03:00, 2.71it/s]
Power Factorization: 3%	13/500 [00:04<02:55, 2.77it/s]
Power Factorization: 3%	14/500 [00:04<02:53, 2.80it/s]
Power Factorization: 3%	15/500 [00:05<02:51, 2.82it/s]
Power Factorization: 3%	16/500 [00:05<02:51, 2.82it/s]

Power Factorization:	3%	17/500	[00:06<02:51,	2.82it/s]
Power Factorization:	4%	18/500	[00:06<02:43,	2.95it/s]
Power Factorization:	4%	19/500	[00:06<02:40,	3.00it/s]
Power Factorization:	4%	20/500	[00:06<02:37,	3.04it/s]
Power Factorization:	4%	21/500	[00:07<02:39,	3.00it/s]
Power Factorization:	4%	22/500	[00:07<02:41,	2.96it/s]
Power Factorization:	5%	23/500	[00:08<02:51,	2.79it/s]
Power Factorization:	5%	24/500	[00:08<02:45,	2.87it/s]
Power Factorization:	5%	25/500	[00:08<02:46,	2.86it/s]
Power Factorization:	5%	26/500	[00:09<02:45,	2.86it/s]
Power Factorization:	5%	27/500	[00:09<02:53,	2.72it/s]
Power Factorization:	6%	28/500	[00:09<02:56,	2.68it/s]
Power Factorization:	6%	29/500	[00:10<02:55,	2.69it/s]
Power Factorization:	6%	30/500	[00:10<02:49,	2.77it/s]
Power Factorization:	6%	31/500	[00:10<02:43,	2.87it/s]
Power Factorization:	6%	32/500	[00:11<02:41,	2.89it/s]
Power Factorization:	7%	33/500	[00:11<02:41,	2.89it/s]
Power Factorization:	7%	34/500	[00:11<02:43,	2.85it/s]
Power Factorization:	7%	35/500	[00:12<02:46,	2.80it/s]
Power Factorization:	7%	36/500	[00:12<02:44,	2.82it/s]
Power Factorization:	7%	37/500	[00:13<02:38,	2.91it/s]
Power Factorization:	8%	38/500	[00:13<02:35,	2.98it/s]
Power Factorization:	8%	39/500	[00:13<02:37,	2.93it/s]
Power Factorization:	8%	40/500	[00:13<02:28,	3.10it/s]

Power Factorization:	8%	41/500 [00:14<02:30, 3.06it/s]
Power Factorization:	8%	42/500 [00:14<02:38, 2.89it/s]
Power Factorization:	9%	43/500 [00:15<02:32, 3.00it/s]
Power Factorization:	9%	44/500 [00:15<02:29, 3.06it/s]
Power Factorization:	9%	45/500 [00:15<02:34, 2.95it/s]
Power Factorization:	9%	46/500 [00:16<02:37, 2.89it/s]
Power Factorization:	9%	47/500 [00:16<02:39, 2.84it/s]
Power Factorization:	10%	48/500 [00:16<02:39, 2.84it/s]
Power Factorization:	10%	49/500 [00:17<02:41, 2.79it/s]
Power Factorization:	10%	50/500 [00:17<02:43, 2.75it/s]
Power Factorization:	10%	51/500 [00:17<02:46, 2.70it/s]
Power Factorization:	10%	52/500 [00:18<02:41, 2.78it/s]
Power Factorization:	11%	53/500 [00:18<02:36, 2.85it/s]
Power Factorization:	11%	54/500 [00:18<02:36, 2.85it/s]
Power Factorization:	11%	55/500 [00:19<02:31, 2.94it/s]
Power Factorization:	11%	56/500 [00:19<02:30, 2.96it/s]
Power Factorization:	11%	57/500 [00:19<02:31, 2.92it/s]
Power Factorization:	12%	58/500 [00:20<02:31, 2.91it/s]
Power Factorization:	12%	59/500 [00:20<02:26, 3.02it/s]
Power Factorization:	12%	60/500 [00:20<02:28, 2.97it/s]
Power Factorization:	12%	61/500 [00:21<02:31, 2.90it/s]
Power Factorization:	12%	62/500 [00:21<02:33, 2.86it/s]
Power Factorization:	13%	63/500 [00:21<02:33, 2.85it/s]
Power Factorization:	13%	64/500 [00:22<02:30, 2.89it/s]

Power Factorization: 13%	65/500 [00:22<02:27,	2.94it/s]
Power Factorization: 13%	66/500 [00:23<02:31,	2.87it/s]
Power Factorization: 13%	67/500 [00:23<02:29,	2.89it/s]
Power Factorization: 14%	68/500 [00:23<02:25,	2.97it/s]
Power Factorization: 14%	69/500 [00:24<02:30,	2.87it/s]
Power Factorization: 14%	70/500 [00:24<02:29,	2.87it/s]
Power Factorization: 14%	71/500 [00:24<02:29,	2.87it/s]
Power Factorization: 14%	72/500 [00:25<02:31,	2.83it/s]
Power Factorization: 15%	73/500 [00:25<02:29,	2.85it/s]
Power Factorization: 15%	74/500 [00:25<02:31,	2.81it/s]
Power Factorization: 15%	75/500 [00:26<02:31,	2.81it/s]
Power Factorization: 15%	76/500 [00:26<02:37,	2.70it/s]
Power Factorization: 15%	77/500 [00:26<02:37,	2.68it/s]
Power Factorization: 16%	78/500 [00:27<02:34,	2.73it/s]
Power Factorization: 16%	79/500 [00:27<02:28,	2.83it/s]
Power Factorization: 16%	80/500 [00:27<02:24,	2.91it/s]
Power Factorization: 16%	81/500 [00:28<02:19,	3.00it/s]
Power Factorization: 16%	82/500 [00:28<02:30,	2.77it/s]
Power Factorization: 17%	83/500 [00:29<02:34,	2.70it/s]
Power Factorization: 17%	84/500 [00:29<02:41,	2.57it/s]
Power Factorization: 17%	85/500 [00:29<02:38,	2.62it/s]
Power Factorization: 17%	86/500 [00:30<02:31,	2.73it/s]
Power Factorization: 17%	87/500 [00:30<02:30,	2.74it/s]
Power Factorization: 18%	88/500 [00:30<02:31,	2.71it/s]

Power Factorization: 18%	89/500 [00:31<02:28, 2.78it/s]
Power Factorization: 18%	90/500 [00:31<02:27, 2.78it/s]
Power Factorization: 18%	91/500 [00:31<02:23, 2.84it/s]
Power Factorization: 18%	92/500 [00:32<02:20, 2.90it/s]
Power Factorization: 19%	93/500 [00:32<02:15, 3.00it/s]
Power Factorization: 19%	94/500 [00:32<02:12, 3.06it/s]
Power Factorization: 19%	95/500 [00:33<02:14, 3.02it/s]
Power Factorization: 19%	96/500 [00:33<02:13, 3.02it/s]
Power Factorization: 19%	97/500 [00:33<02:14, 3.00it/s]
Power Factorization: 20%	98/500 [00:34<02:11, 3.05it/s]
Power Factorization: 20%	99/500 [00:34<02:13, 3.01it/s]
Power Factorization: 20%	100/500 [00:34<02:15, 2.95it/s]
Power Factorization: 20%	101/500 [00:35<02:16, 2.93it/s]
Power Factorization: 20%	102/500 [00:35<02:11, 3.03it/s]
Power Factorization: 21%	103/500 [00:35<02:11, 3.01it/s]
Power Factorization: 21%	104/500 [00:36<02:11, 3.01it/s]
Power Factorization: 21%	105/500 [00:36<02:10, 3.02it/s]
Power Factorization: 21%	106/500 [00:36<02:15, 2.90it/s]
Power Factorization: 21%	107/500 [00:37<02:17, 2.87it/s]
Power Factorization: 22%	108/500 [00:37<02:13, 2.93it/s]
Power Factorization: 22%	109/500 [00:38<02:15, 2.89it/s]
Power Factorization: 22%	110/500 [00:38<02:11, 2.98it/s]
Power Factorization: 22%	111/500 [00:38<02:11, 2.95it/s]
Power Factorization: 22%	112/500 [00:39<02:10, 2.97it/s]

Power Factorization: 23%	113/500 [00:39<02:10, 2.97it/s]
Power Factorization: 23%	114/500 [00:39<02:09, 2.98it/s]
Power Factorization: 23%	115/500 [00:40<02:10, 2.94it/s]
Power Factorization: 23%	116/500 [00:40<02:13, 2.88it/s]
Power Factorization: 23%	117/500 [00:40<02:09, 2.97it/s]
Power Factorization: 24%	118/500 [00:41<02:13, 2.86it/s]
Power Factorization: 24%	119/500 [00:41<02:12, 2.87it/s]
Power Factorization: 24%	120/500 [00:41<02:12, 2.87it/s]
Power Factorization: 24%	121/500 [00:42<02:09, 2.93it/s]
Power Factorization: 24%	122/500 [00:42<02:07, 2.96it/s]
Power Factorization: 25%	123/500 [00:42<02:08, 2.93it/s]
Power Factorization: 25%	124/500 [00:43<02:14, 2.79it/s]
Power Factorization: 25%	125/500 [00:43<02:18, 2.70it/s]
Power Factorization: 25%	126/500 [00:43<02:12, 2.83it/s]
Power Factorization: 25%	127/500 [00:44<02:10, 2.87it/s]
Power Factorization: 26%	128/500 [00:44<02:20, 2.65it/s]
Power Factorization: 26%	129/500 [00:45<02:26, 2.54it/s]
Power Factorization: 26%	130/500 [00:45<02:26, 2.53it/s]
Power Factorization: 26%	131/500 [00:45<02:19, 2.65it/s]
Power Factorization: 26%	132/500 [00:46<02:13, 2.77it/s]
Power Factorization: 27%	133/500 [00:46<02:16, 2.68it/s]
Power Factorization: 27%	134/500 [00:46<02:14, 2.73it/s]
Power Factorization: 27%	135/500 [00:47<02:09, 2.82it/s]
Power Factorization: 27%	136/500 [00:47<02:08, 2.84it/s]

Power Factorization: 27%	137/500 [00:47<02:07, 2.84it/s]
Power Factorization: 28%	138/500 [00:48<02:01, 2.97it/s]
Power Factorization: 28%	139/500 [00:48<02:05, 2.87it/s]
Power Factorization: 28%	140/500 [00:48<02:05, 2.87it/s]
Power Factorization: 28%	141/500 [00:49<02:04, 2.89it/s]
Power Factorization: 28%	142/500 [00:49<02:04, 2.87it/s]
Power Factorization: 29%	143/500 [00:49<02:02, 2.93it/s]
Power Factorization: 29%	144/500 [00:50<02:06, 2.82it/s]
Power Factorization: 29%	145/500 [00:50<02:08, 2.76it/s]
Power Factorization: 29%	146/500 [00:51<02:11, 2.69it/s]
Power Factorization: 29%	147/500 [00:51<02:06, 2.80it/s]
Power Factorization: 30%	148/500 [00:51<02:06, 2.77it/s]
Power Factorization: 30%	149/500 [00:52<02:05, 2.80it/s]
Power Factorization: 30%	150/500 [00:52<02:01, 2.89it/s]
Power Factorization: 30%	151/500 [00:52<02:02, 2.86it/s]
Power Factorization: 30%	152/500 [00:53<02:00, 2.88it/s]
Power Factorization: 31%	153/500 [00:53<01:57, 2.94it/s]
Power Factorization: 31%	154/500 [00:53<01:56, 2.97it/s]
Power Factorization: 31%	155/500 [00:54<01:53, 3.03it/s]
Power Factorization: 31%	156/500 [00:54<01:55, 2.99it/s]
Power Factorization: 31%	157/500 [00:54<02:00, 2.84it/s]
Power Factorization: 32%	158/500 [00:55<01:57, 2.90it/s]
Power Factorization: 32%	159/500 [00:55<01:51, 3.05it/s]
Power Factorization: 32%	160/500 [00:55<01:53, 2.99it/s]

Power Factorization: 32%	161/500 [00:56<01:55, 2.93it/s]
Power Factorization: 32%	162/500 [00:56<01:53, 2.99it/s]
Power Factorization: 33%	163/500 [00:56<01:48, 3.12it/s]
Power Factorization: 33%	164/500 [00:57<01:50, 3.04it/s]
Power Factorization: 33%	165/500 [00:57<01:50, 3.02it/s]
Power Factorization: 33%	166/500 [00:57<01:52, 2.96it/s]
Power Factorization: 33%	167/500 [00:58<01:57, 2.84it/s]
Power Factorization: 34%	168/500 [00:58<01:59, 2.78it/s]
Power Factorization: 34%	169/500 [00:58<01:55, 2.86it/s]
Power Factorization: 34%	170/500 [00:59<01:56, 2.82it/s]
Power Factorization: 34%	171/500 [00:59<01:57, 2.80it/s]
Power Factorization: 34%	172/500 [01:00<01:53, 2.90it/s]
Power Factorization: 35%	173/500 [01:00<01:50, 2.97it/s]
Power Factorization: 35%	174/500 [01:00<01:50, 2.96it/s]
Power Factorization: 35%	175/500 [01:01<01:53, 2.86it/s]
Power Factorization: 35%	176/500 [01:01<01:51, 2.91it/s]
Power Factorization: 35%	177/500 [01:01<01:52, 2.88it/s]
Power Factorization: 36%	178/500 [01:02<01:53, 2.83it/s]
Power Factorization: 36%	179/500 [01:02<01:57, 2.72it/s]
Power Factorization: 36%	180/500 [01:02<01:58, 2.70it/s]
Power Factorization: 36%	181/500 [01:03<01:55, 2.76it/s]
Power Factorization: 36%	182/500 [01:03<01:53, 2.81it/s]
Power Factorization: 37%	183/500 [01:03<01:51, 2.84it/s]
Power Factorization: 37%	184/500 [01:04<01:45, 3.00it/s]

Power Factorization: 37%	185/500 [01:04<01:46,	2.95it/s]
Power Factorization: 37%	186/500 [01:04<01:44,	3.00it/s]
Power Factorization: 37%	187/500 [01:05<01:43,	3.02it/s]
Power Factorization: 38%	188/500 [01:05<01:43,	3.00it/s]
Power Factorization: 38%	189/500 [01:05<01:48,	2.86it/s]
Power Factorization: 38%	190/500 [01:06<01:46,	2.91it/s]
Power Factorization: 38%	191/500 [01:06<01:43,	2.99it/s]
Power Factorization: 38%	192/500 [01:06<01:41,	3.03it/s]
Power Factorization: 39%	193/500 [01:07<01:44,	2.94it/s]
Power Factorization: 39%	194/500 [01:07<01:41,	3.01it/s]
Power Factorization: 39%	195/500 [01:07<01:43,	2.96it/s]
Power Factorization: 39%	196/500 [01:08<01:42,	2.96it/s]
Power Factorization: 39%	197/500 [01:08<01:41,	2.99it/s]
Power Factorization: 40%	198/500 [01:08<01:41,	2.97it/s]
Power Factorization: 40%	199/500 [01:09<01:40,	3.00it/s]
Power Factorization: 40%	200/500 [01:09<01:41,	2.96it/s]
Power Factorization: 40%	201/500 [01:09<01:40,	2.99it/s]
Power Factorization: 40%	202/500 [01:10<01:40,	2.98it/s]
Power Factorization: 41%	203/500 [01:10<01:37,	3.05it/s]
Power Factorization: 41%	204/500 [01:10<01:38,	3.00it/s]
Power Factorization: 41%	205/500 [01:11<01:40,	2.93it/s]
Power Factorization: 41%	206/500 [01:11<01:46,	2.75it/s]
Power Factorization: 41%	207/500 [01:12<01:42,	2.85it/s]
Power Factorization: 42%	208/500 [01:12<01:43,	2.82it/s]

Power Factorization: 42%	209/500 [01:12<01:41, 2.88it/s]
Power Factorization: 42%	210/500 [01:13<01:39, 2.91it/s]
Power Factorization: 42%	211/500 [01:13<01:42, 2.83it/s]
Power Factorization: 42%	212/500 [01:13<01:43, 2.78it/s]
Power Factorization: 43%	213/500 [01:14<01:39, 2.90it/s]
Power Factorization: 43%	214/500 [01:14<01:47, 2.67it/s]
Power Factorization: 43%	215/500 [01:14<01:51, 2.56it/s]
Power Factorization: 43%	216/500 [01:15<01:47, 2.64it/s]
Power Factorization: 43%	217/500 [01:15<01:41, 2.79it/s]
Power Factorization: 44%	218/500 [01:15<01:40, 2.81it/s]
Power Factorization: 44%	219/500 [01:16<01:32, 3.05it/s]
Power Factorization: 44%	220/500 [01:16<01:33, 2.99it/s]
Power Factorization: 44%	221/500 [01:16<01:34, 2.96it/s]
Power Factorization: 44%	222/500 [01:17<01:33, 2.96it/s]
Power Factorization: 45%	223/500 [01:17<01:32, 2.99it/s]
Power Factorization: 45%	224/500 [01:17<01:32, 3.00it/s]
Power Factorization: 45%	225/500 [01:18<01:33, 2.93it/s]
Power Factorization: 45%	226/500 [01:18<01:34, 2.90it/s]
Power Factorization: 45%	227/500 [01:19<01:34, 2.90it/s]
Power Factorization: 46%	228/500 [01:19<01:35, 2.86it/s]
Power Factorization: 46%	229/500 [01:19<01:37, 2.77it/s]
Power Factorization: 46%	230/500 [01:20<01:34, 2.84it/s]
Power Factorization: 46%	231/500 [01:20<01:31, 2.95it/s]
Power Factorization: 46%	232/500 [01:20<01:29, 2.99it/s]

Power Factorization: 47%	233/500 [01:21<01:30, 2.95it/s]
Power Factorization: 47%	234/500 [01:21<01:27, 3.05it/s]
Power Factorization: 47%	235/500 [01:21<01:26, 3.05it/s]
Power Factorization: 47%	236/500 [01:22<01:29, 2.97it/s]
Power Factorization: 47%	237/500 [01:22<01:26, 3.04it/s]
Power Factorization: 48%	238/500 [01:22<01:28, 2.95it/s]
Power Factorization: 48%	239/500 [01:23<01:29, 2.92it/s]
Power Factorization: 48%	240/500 [01:23<01:31, 2.84it/s]
Power Factorization: 48%	241/500 [01:23<01:33, 2.78it/s]
Power Factorization: 48%	242/500 [01:24<01:32, 2.80it/s]
Power Factorization: 49%	243/500 [01:24<01:29, 2.87it/s]
Power Factorization: 49%	244/500 [01:24<01:31, 2.80it/s]
Power Factorization: 49%	245/500 [01:25<01:30, 2.82it/s]
Power Factorization: 49%	246/500 [01:25<01:29, 2.83it/s]
Power Factorization: 49%	247/500 [01:25<01:27, 2.88it/s]
Power Factorization: 50%	248/500 [01:26<01:24, 2.97it/s]
Power Factorization: 50%	249/500 [01:26<01:25, 2.94it/s]
Power Factorization: 50%	250/500 [01:26<01:21, 3.05it/s]
Power Factorization: 50%	251/500 [01:27<01:26, 2.87it/s]
Power Factorization: 50%	252/500 [01:27<01:26, 2.87it/s]
Power Factorization: 51%	253/500 [01:27<01:26, 2.85it/s]
Power Factorization: 51%	254/500 [01:28<01:26, 2.86it/s]
Power Factorization: 51%	255/500 [01:28<01:26, 2.83it/s]
Power Factorization: 51%	256/500 [01:29<01:25, 2.85it/s]

Power Factorization: 51%	257/500 [01:29<01:24, 2.88it/s]
Power Factorization: 52%	258/500 [01:29<01:25, 2.84it/s]
Power Factorization: 52%	259/500 [01:30<01:26, 2.78it/s]
Power Factorization: 52%	260/500 [01:30<01:23, 2.88it/s]
Power Factorization: 52%	261/500 [01:30<01:23, 2.86it/s]
Power Factorization: 52%	262/500 [01:31<01:21, 2.91it/s]
Power Factorization: 53%	263/500 [01:31<01:21, 2.92it/s]
Power Factorization: 53%	264/500 [01:31<01:20, 2.95it/s]
Power Factorization: 53%	265/500 [01:32<01:20, 2.91it/s]
Power Factorization: 53%	266/500 [01:32<01:20, 2.90it/s]
Power Factorization: 53%	267/500 [01:32<01:20, 2.88it/s]
Power Factorization: 54%	268/500 [01:33<01:22, 2.82it/s]
Power Factorization: 54%	269/500 [01:33<01:17, 2.97it/s]
Power Factorization: 54%	270/500 [01:33<01:15, 3.05it/s]
Power Factorization: 54%	271/500 [01:34<01:15, 3.02it/s]
Power Factorization: 54%	272/500 [01:34<01:16, 2.97it/s]
Power Factorization: 55%	273/500 [01:34<01:19, 2.87it/s]
Power Factorization: 55%	274/500 [01:35<01:18, 2.88it/s]
Power Factorization: 55%	275/500 [01:35<01:20, 2.81it/s]
Power Factorization: 55%	276/500 [01:35<01:21, 2.74it/s]
Power Factorization: 55%	277/500 [01:36<01:21, 2.75it/s]
Power Factorization: 56%	278/500 [01:36<01:19, 2.78it/s]
Power Factorization: 56%	279/500 [01:36<01:15, 2.92it/s]
Power Factorization: 56%	280/500 [01:37<01:14, 2.96it/s]

Power Factorization: 56%	281/500 [01:37<01:12, 3.01it/s]
Power Factorization: 56%	282/500 [01:38<01:16, 2.84it/s]
Power Factorization: 57%	283/500 [01:38<01:20, 2.71it/s]
Power Factorization: 57%	284/500 [01:38<01:20, 2.68it/s]
Power Factorization: 57%	285/500 [01:39<01:17, 2.77it/s]
Power Factorization: 57%	286/500 [01:39<01:16, 2.81it/s]
Power Factorization: 57%	287/500 [01:39<01:15, 2.81it/s]
Power Factorization: 58%	288/500 [01:40<01:16, 2.78it/s]
Power Factorization: 58%	289/500 [01:40<01:10, 2.97it/s]
Power Factorization: 58%	290/500 [01:40<01:12, 2.91it/s]
Power Factorization: 58%	291/500 [01:41<01:13, 2.85it/s]
Power Factorization: 58%	292/500 [01:41<01:14, 2.80it/s]
Power Factorization: 59%	293/500 [01:41<01:15, 2.76it/s]
Power Factorization: 59%	294/500 [01:42<01:10, 2.92it/s]
Power Factorization: 59%	295/500 [01:42<01:11, 2.86it/s]
Power Factorization: 59%	296/500 [01:43<01:12, 2.80it/s]
Power Factorization: 59%	297/500 [01:43<01:12, 2.80it/s]
Power Factorization: 60%	298/500 [01:43<01:09, 2.91it/s]
Power Factorization: 60%	299/500 [01:44<01:09, 2.88it/s]
Power Factorization: 60%	300/500 [01:44<01:11, 2.80it/s]
Power Factorization: 60%	301/500 [01:44<01:11, 2.80it/s]
Power Factorization: 60%	302/500 [01:45<01:11, 2.78it/s]
Power Factorization: 61%	303/500 [01:45<01:11, 2.77it/s]
Power Factorization: 61%	304/500 [01:45<01:08, 2.86it/s]

Power Factorization: 61%	305/500 [01:46<01:07, 2.89it/s]
Power Factorization: 61%	306/500 [01:46<01:08, 2.83it/s]
Power Factorization: 61%	307/500 [01:46<01:08, 2.83it/s]
Power Factorization: 62%	308/500 [01:47<01:06, 2.89it/s]
Power Factorization: 62%	309/500 [01:47<01:05, 2.91it/s]
Power Factorization: 62%	310/500 [01:47<01:06, 2.87it/s]
Power Factorization: 62%	311/500 [01:48<01:06, 2.83it/s]
Power Factorization: 62%	312/500 [01:48<01:07, 2.77it/s]
Power Factorization: 63%	313/500 [01:49<01:07, 2.76it/s]
Power Factorization: 63%	314/500 [01:49<01:07, 2.75it/s]
Power Factorization: 63%	315/500 [01:49<01:06, 2.76it/s]
Power Factorization: 63%	316/500 [01:50<01:04, 2.86it/s]
Power Factorization: 63%	317/500 [01:50<01:02, 2.91it/s]
Power Factorization: 64%	318/500 [01:50<01:03, 2.84it/s]
Power Factorization: 64%	319/500 [01:51<01:06, 2.74it/s]
Power Factorization: 64%	320/500 [01:51<01:06, 2.70it/s]
Power Factorization: 64%	321/500 [01:51<01:02, 2.84it/s]
Power Factorization: 64%	322/500 [01:52<01:02, 2.83it/s]
Power Factorization: 65%	323/500 [01:52<01:02, 2.83it/s]
Power Factorization: 65%	324/500 [01:52<01:01, 2.88it/s]
Power Factorization: 65%	325/500 [01:53<01:01, 2.85it/s]
Power Factorization: 65%	326/500 [01:53<01:01, 2.81it/s]
Power Factorization: 65%	327/500 [01:53<01:00, 2.88it/s]
Power Factorization: 66%	328/500 [01:54<00:59, 2.91it/s]

Power Factorization: 66%	329/500 [01:54<00:59, 2.87it/s]
Power Factorization: 66%	330/500 [01:55<01:00, 2.82it/s]
Power Factorization: 66%	331/500 [01:55<01:00, 2.81it/s]
Power Factorization: 66%	332/500 [01:55<00:57, 2.91it/s]
Power Factorization: 67%	333/500 [01:56<00:55, 3.04it/s]
Power Factorization: 67%	334/500 [01:56<00:55, 3.01it/s]
Power Factorization: 67%	335/500 [01:56<00:54, 3.04it/s]
Power Factorization: 67%	336/500 [01:56<00:53, 3.08it/s]
Power Factorization: 67%	337/500 [01:57<00:54, 2.98it/s]
Power Factorization: 68%	338/500 [01:57<00:57, 2.80it/s]
Power Factorization: 68%	339/500 [01:58<00:57, 2.78it/s]
Power Factorization: 68%	340/500 [01:58<00:58, 2.73it/s]
Power Factorization: 68%	341/500 [01:58<00:55, 2.85it/s]
Power Factorization: 68%	342/500 [01:59<00:54, 2.89it/s]
Power Factorization: 69%	343/500 [01:59<00:56, 2.80it/s]
Power Factorization: 69%	344/500 [01:59<00:55, 2.80it/s]
Power Factorization: 69%	345/500 [02:00<00:53, 2.88it/s]
Power Factorization: 69%	346/500 [02:00<00:54, 2.85it/s]
Power Factorization: 69%	347/500 [02:00<00:53, 2.88it/s]
Power Factorization: 70%	348/500 [02:01<00:52, 2.87it/s]
Power Factorization: 70%	349/500 [02:01<00:52, 2.86it/s]
Power Factorization: 70%	350/500 [02:01<00:51, 2.89it/s]
Power Factorization: 70%	351/500 [02:02<00:52, 2.85it/s]
Power Factorization: 70%	352/500 [02:02<00:49, 3.00it/s]

Power Factorization: 71%	353/500 [02:02<00:50, 2.89it/s]
Power Factorization: 71%	354/500 [02:03<00:48, 3.01it/s]
Power Factorization: 71%	355/500 [02:03<00:48, 2.98it/s]
Power Factorization: 71%	356/500 [02:03<00:50, 2.88it/s]
Power Factorization: 71%	357/500 [02:04<00:48, 2.92it/s]
Power Factorization: 72%	358/500 [02:04<00:48, 2.90it/s]
Power Factorization: 72%	359/500 [02:05<00:47, 2.94it/s]
Power Factorization: 72%	360/500 [02:05<00:47, 2.94it/s]
Power Factorization: 72%	361/500 [02:05<00:48, 2.89it/s]
Power Factorization: 72%	362/500 [02:06<00:49, 2.80it/s]
Power Factorization: 73%	363/500 [02:06<00:48, 2.85it/s]
Power Factorization: 73%	364/500 [02:06<00:48, 2.78it/s]
Power Factorization: 73%	365/500 [02:07<00:47, 2.84it/s]
Power Factorization: 73%	366/500 [02:07<00:46, 2.90it/s]
Power Factorization: 73%	367/500 [02:07<00:44, 3.01it/s]
Power Factorization: 74%	368/500 [02:08<00:43, 3.01it/s]
Power Factorization: 74%	369/500 [02:08<00:44, 2.96it/s]
Power Factorization: 74%	370/500 [02:08<00:43, 2.99it/s]
Power Factorization: 74%	371/500 [02:09<00:43, 2.94it/s]
Power Factorization: 74%	372/500 [02:09<00:44, 2.89it/s]
Power Factorization: 75%	373/500 [02:09<00:43, 2.91it/s]
Power Factorization: 75%	374/500 [02:10<00:42, 2.97it/s]
Power Factorization: 75%	375/500 [02:10<00:40, 3.05it/s]
Power Factorization: 75%	376/500 [02:10<00:42, 2.90it/s]

Power Factorization: 75%	377/500 [02:11<00:43, 2.86it/s]
Power Factorization: 76%	378/500 [02:11<00:44, 2.74it/s]
Power Factorization: 76%	379/500 [02:11<00:44, 2.74it/s]
Power Factorization: 76%	380/500 [02:12<00:43, 2.73it/s]
Power Factorization: 76%	381/500 [02:12<00:44, 2.70it/s]
Power Factorization: 76%	382/500 [02:13<00:42, 2.76it/s]
Power Factorization: 77%	383/500 [02:13<00:41, 2.85it/s]
Power Factorization: 77%	384/500 [02:13<00:40, 2.87it/s]
Power Factorization: 77%	385/500 [02:14<00:40, 2.87it/s]
Power Factorization: 77%	386/500 [02:14<00:40, 2.81it/s]
Power Factorization: 77%	387/500 [02:14<00:38, 2.91it/s]
Power Factorization: 78%	388/500 [02:15<00:38, 2.88it/s]
Power Factorization: 78%	389/500 [02:15<00:37, 2.93it/s]
Power Factorization: 78%	390/500 [02:15<00:40, 2.73it/s]
Power Factorization: 78%	391/500 [02:16<00:39, 2.73it/s]
Power Factorization: 78%	392/500 [02:16<00:39, 2.74it/s]
Power Factorization: 79%	393/500 [02:16<00:39, 2.70it/s]
Power Factorization: 79%	394/500 [02:17<00:37, 2.81it/s]
Power Factorization: 79%	395/500 [02:17<00:38, 2.74it/s]
Power Factorization: 79%	396/500 [02:18<00:38, 2.74it/s]
Power Factorization: 79%	397/500 [02:18<00:37, 2.76it/s]
Power Factorization: 80%	398/500 [02:18<00:35, 2.91it/s]
Power Factorization: 80%	399/500 [02:19<00:35, 2.86it/s]
Power Factorization: 80%	400/500 [02:19<00:35, 2.81it/s]

Power Factorization: 80%	401/500 [02:19<00:35,	2.77it/s]
Power Factorization: 80%	402/500 [02:20<00:36,	2.66it/s]
Power Factorization: 81%	403/500 [02:20<00:36,	2.63it/s]
Power Factorization: 81%	404/500 [02:20<00:35,	2.72it/s]
Power Factorization: 81%	405/500 [02:21<00:34,	2.73it/s]
Power Factorization: 81%	406/500 [02:21<00:34,	2.74it/s]
Power Factorization: 81%	407/500 [02:22<00:33,	2.77it/s]
Power Factorization: 82%	408/500 [02:22<00:32,	2.82it/s]
Power Factorization: 82%	409/500 [02:22<00:31,	2.89it/s]
Power Factorization: 82%	410/500 [02:23<00:30,	2.93it/s]
Power Factorization: 82%	411/500 [02:23<00:31,	2.83it/s]
Power Factorization: 82%	412/500 [02:23<00:30,	2.86it/s]
Power Factorization: 83%	413/500 [02:24<00:29,	2.95it/s]
Power Factorization: 83%	414/500 [02:24<00:29,	2.91it/s]
Power Factorization: 83%	415/500 [02:24<00:28,	3.04it/s]
Power Factorization: 83%	416/500 [02:25<00:28,	3.00it/s]
Power Factorization: 83%	417/500 [02:25<00:28,	2.96it/s]
Power Factorization: 84%	418/500 [02:25<00:28,	2.88it/s]
Power Factorization: 84%	419/500 [02:26<00:28,	2.86it/s]
Power Factorization: 84%	420/500 [02:26<00:28,	2.80it/s]
Power Factorization: 84%	421/500 [02:26<00:28,	2.74it/s]
Power Factorization: 84%	422/500 [02:27<00:27,	2.84it/s]
Power Factorization: 85%	423/500 [02:27<00:27,	2.83it/s]
Power Factorization: 85%	424/500 [02:27<00:26,	2.91it/s]

Power Factorization: 85%	425/500 [02:28<00:25,	2.95it/s]
Power Factorization: 85%	426/500 [02:28<00:25,	2.91it/s]
Power Factorization: 85%	427/500 [02:28<00:25,	2.89it/s]
Power Factorization: 86%	428/500 [02:29<00:24,	2.93it/s]
Power Factorization: 86%	429/500 [02:29<00:26,	2.73it/s]
Power Factorization: 86%	430/500 [02:30<00:24,	2.83it/s]
Power Factorization: 86%	431/500 [02:30<00:23,	2.88it/s]
Power Factorization: 86%	432/500 [02:30<00:23,	2.92it/s]
Power Factorization: 87%	433/500 [02:31<00:23,	2.82it/s]
Power Factorization: 87%	434/500 [02:31<00:23,	2.80it/s]
Power Factorization: 87%	435/500 [02:31<00:22,	2.90it/s]
Power Factorization: 87%	436/500 [02:32<00:23,	2.74it/s]
Power Factorization: 87%	437/500 [02:32<00:22,	2.75it/s]
Power Factorization: 88%	438/500 [02:32<00:22,	2.71it/s]
Power Factorization: 88%	439/500 [02:33<00:23,	2.64it/s]
Power Factorization: 88%	440/500 [02:33<00:22,	2.66it/s]
Power Factorization: 88%	441/500 [02:33<00:21,	2.77it/s]
Power Factorization: 88%	442/500 [02:34<00:20,	2.82it/s]
Power Factorization: 89%	443/500 [02:34<00:20,	2.84it/s]
Power Factorization: 89%	444/500 [02:35<00:20,	2.72it/s]
Power Factorization: 89%	445/500 [02:35<00:20,	2.73it/s]
Power Factorization: 89%	446/500 [02:35<00:20,	2.62it/s]
Power Factorization: 89%	447/500 [02:36<00:19,	2.70it/s]
Power Factorization: 90%	448/500 [02:36<00:18,	2.75it/s]

Power Factorization: 90%	449/500 [02:36<00:18,	2.72it/s]
Power Factorization: 90%	450/500 [02:37<00:18,	2.77it/s]
Power Factorization: 90%	451/500 [02:37<00:17,	2.87it/s]
Power Factorization: 90%	452/500 [02:38<00:17,	2.71it/s]
Power Factorization: 91%	453/500 [02:38<00:16,	2.81it/s]
Power Factorization: 91%	454/500 [02:38<00:16,	2.83it/s]
Power Factorization: 91%	455/500 [02:39<00:15,	2.86it/s]
Power Factorization: 91%	456/500 [02:39<00:14,	2.97it/s]
Power Factorization: 91%	457/500 [02:39<00:14,	2.87it/s]
Power Factorization: 92%	458/500 [02:40<00:14,	2.84it/s]
Power Factorization: 92%	459/500 [02:40<00:14,	2.87it/s]
Power Factorization: 92%	460/500 [02:40<00:14,	2.82it/s]
Power Factorization: 92%	461/500 [02:41<00:13,	2.92it/s]
Power Factorization: 92%	462/500 [02:41<00:13,	2.92it/s]
Power Factorization: 93%	463/500 [02:41<00:13,	2.84it/s]
Power Factorization: 93%	464/500 [02:42<00:12,	2.87it/s]
Power Factorization: 93%	465/500 [02:42<00:12,	2.91it/s]
Power Factorization: 93%	466/500 [02:42<00:11,	3.04it/s]
Power Factorization: 93%	467/500 [02:43<00:11,	2.86it/s]
Power Factorization: 94%	468/500 [02:43<00:11,	2.76it/s]
Power Factorization: 94%	469/500 [02:43<00:11,	2.76it/s]
Power Factorization: 94%	470/500 [02:44<00:10,	2.80it/s]
Power Factorization: 94%	471/500 [02:44<00:09,	2.91it/s]
Power Factorization: 94%	472/500 [02:44<00:10,	2.79it/s]

Power Factorization: 95%	473/500 [02:45<00:09, 2.73it/s]
Power Factorization: 95%	474/500 [02:45<00:09, 2.79it/s]
Power Factorization: 95%	475/500 [02:46<00:08, 2.82it/s]
Power Factorization: 95%	476/500 [02:46<00:08, 2.81it/s]
Power Factorization: 95%	477/500 [02:46<00:08, 2.87it/s]
Power Factorization: 96%	478/500 [02:47<00:07, 2.94it/s]
Power Factorization: 96%	479/500 [02:47<00:07, 2.95it/s]
Power Factorization: 96%	480/500 [02:47<00:06, 2.86it/s]
Power Factorization: 96%	481/500 [02:48<00:06, 2.94it/s]
Power Factorization: 96%	482/500 [02:48<00:06, 2.96it/s]
Power Factorization: 97%	483/500 [02:48<00:05, 2.97it/s]
Power Factorization: 97%	484/500 [02:49<00:05, 2.91it/s]
Power Factorization: 97%	485/500 [02:49<00:05, 2.86it/s]
Power Factorization: 97%	486/500 [02:49<00:04, 2.89it/s]
Power Factorization: 97%	487/500 [02:50<00:04, 2.96it/s]
Power Factorization: 98%	488/500 [02:50<00:04, 3.00it/s]
Power Factorization: 98%	489/500 [02:50<00:03, 2.94it/s]
Power Factorization: 98%	490/500 [02:51<00:03, 2.92it/s]
Power Factorization: 98%	491/500 [02:51<00:03, 2.91it/s]
Power Factorization: 98%	492/500 [02:51<00:02, 2.98it/s]
Power Factorization: 99%	493/500 [02:52<00:02, 2.72it/s]
Power Factorization: 99%	494/500 [02:52<00:02, 2.74it/s]
Power Factorization: 99%	495/500 [02:52<00:01, 2.73it/s]
Power Factorization: 99%	496/500 [02:53<00:01, 2.85it/s]

Power Factorization: 99%	497/500 [02:53<00:01, 2.90it/s]
Power Factorization: 100%	498/500 [02:53<00:00, 2.90it/s]
Power Factorization: 100%	499/500 [02:54<00:00, 2.83it/s]
Power Factorization: 100%	500/500 [02:54<00:00, 2.86it/s]
Cross Validation: 40%	2/5 [05:48<08:43, 174.40s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:43, 3.06it/s]
Power Factorization: 0%	2/500 [00:00<02:41, 3.09it/s]
Power Factorization: 1%	3/500 [00:01<02:50, 2.91it/s]
Power Factorization: 1%	4/500 [00:01<02:56, 2.81it/s]
Power Factorization: 1%	5/500 [00:01<02:49, 2.92it/s]
Power Factorization: 1%	6/500 [00:02<02:50, 2.90it/s]
Power Factorization: 1%	7/500 [00:02<02:49, 2.90it/s]
Power Factorization: 2%	8/500 [00:02<02:47, 2.93it/s]
Power Factorization: 2%	9/500 [00:03<02:50, 2.87it/s]
Power Factorization: 2%	10/500 [00:03<03:03, 2.67it/s]
Power Factorization: 2%	11/500 [00:03<03:00, 2.72it/s]
Power Factorization: 2%	12/500 [00:04<02:58, 2.74it/s]
Power Factorization: 3%	13/500 [00:04<02:55, 2.78it/s]
Power Factorization: 3%	14/500 [00:04<02:54, 2.78it/s]
Power Factorization: 3%	15/500 [00:05<03:04, 2.64it/s]
Power Factorization: 3%	16/500 [00:05<03:00, 2.68it/s]
Power Factorization: 3%	17/500 [00:06<02:57, 2.72it/s]
Power Factorization: 4%	18/500 [00:06<02:50, 2.82it/s]

Power Factorization:	4%	19/500	[00:06<02:50,	2.81it/s]
Power Factorization:	4%	20/500	[00:07<02:54,	2.75it/s]
Power Factorization:	4%	21/500	[00:07<02:53,	2.76it/s]
Power Factorization:	4%	22/500	[00:07<02:49,	2.82it/s]
Power Factorization:	5%	23/500	[00:08<02:45,	2.88it/s]
Power Factorization:	5%	24/500	[00:08<02:44,	2.89it/s]
Power Factorization:	5%	25/500	[00:08<02:43,	2.91it/s]
Power Factorization:	5%	26/500	[00:09<02:50,	2.79it/s]
Power Factorization:	5%	27/500	[00:09<03:00,	2.62it/s]
Power Factorization:	6%	28/500	[00:10<02:57,	2.66it/s]
Power Factorization:	6%	29/500	[00:10<02:54,	2.70it/s]
Power Factorization:	6%	30/500	[00:10<02:55,	2.69it/s]
Power Factorization:	6%	31/500	[00:11<02:49,	2.77it/s]
Power Factorization:	6%	32/500	[00:11<02:46,	2.80it/s]
Power Factorization:	7%	33/500	[00:11<02:47,	2.79it/s]
Power Factorization:	7%	34/500	[00:12<02:40,	2.91it/s]
Power Factorization:	7%	35/500	[00:12<02:38,	2.93it/s]
Power Factorization:	7%	36/500	[00:12<02:45,	2.81it/s]
Power Factorization:	7%	37/500	[00:13<02:50,	2.72it/s]
Power Factorization:	8%	38/500	[00:13<02:44,	2.80it/s]
Power Factorization:	8%	39/500	[00:13<02:43,	2.82it/s]
Power Factorization:	8%	40/500	[00:14<02:38,	2.90it/s]
Power Factorization:	8%	41/500	[00:14<02:39,	2.88it/s]
Power Factorization:	8%	42/500	[00:14<02:38,	2.89it/s]

Power Factorization:	9%	43/500 [00:15<02:38, 2.88it/s]
Power Factorization:	9%	44/500 [00:15<02:40, 2.83it/s]
Power Factorization:	9%	45/500 [00:15<02:34, 2.94it/s]
Power Factorization:	9%	46/500 [00:16<02:35, 2.92it/s]
Power Factorization:	9%	47/500 [00:16<02:39, 2.85it/s]
Power Factorization:	10%	48/500 [00:17<02:50, 2.66it/s]
Power Factorization:	10%	49/500 [00:17<02:42, 2.78it/s]
Power Factorization:	10%	50/500 [00:17<02:39, 2.82it/s]
Power Factorization:	10%	51/500 [00:18<02:35, 2.88it/s]
Power Factorization:	10%	52/500 [00:18<02:37, 2.84it/s]
Power Factorization:	11%	53/500 [00:18<02:41, 2.77it/s]
Power Factorization:	11%	54/500 [00:19<02:38, 2.81it/s]
Power Factorization:	11%	55/500 [00:19<02:37, 2.83it/s]
Power Factorization:	11%	56/500 [00:19<02:36, 2.83it/s]
Power Factorization:	11%	57/500 [00:20<02:50, 2.60it/s]
Power Factorization:	12%	58/500 [00:20<02:45, 2.67it/s]
Power Factorization:	12%	59/500 [00:21<02:39, 2.77it/s]
Power Factorization:	12%	60/500 [00:21<02:41, 2.72it/s]
Power Factorization:	12%	61/500 [00:21<02:33, 2.86it/s]
Power Factorization:	12%	62/500 [00:22<02:37, 2.79it/s]
Power Factorization:	13%	63/500 [00:22<02:40, 2.72it/s]
Power Factorization:	13%	64/500 [00:22<02:41, 2.70it/s]
Power Factorization:	13%	65/500 [00:23<02:35, 2.81it/s]
Power Factorization:	13%	66/500 [00:23<02:34, 2.81it/s]

Power Factorization: 13%	67/500 [00:23<02:38,	2.73it/s]
Power Factorization: 14%	68/500 [00:24<02:34,	2.80it/s]
Power Factorization: 14%	69/500 [00:24<02:34,	2.79it/s]
Power Factorization: 14%	70/500 [00:25<02:36,	2.75it/s]
Power Factorization: 14%	71/500 [00:25<02:34,	2.77it/s]
Power Factorization: 14%	72/500 [00:25<02:29,	2.86it/s]
Power Factorization: 15%	73/500 [00:26<02:29,	2.86it/s]
Power Factorization: 15%	74/500 [00:26<02:26,	2.92it/s]
Power Factorization: 15%	75/500 [00:26<02:23,	2.95it/s]
Power Factorization: 15%	76/500 [00:27<02:29,	2.84it/s]
Power Factorization: 15%	77/500 [00:27<02:24,	2.93it/s]
Power Factorization: 16%	78/500 [00:27<02:23,	2.93it/s]
Power Factorization: 16%	79/500 [00:28<02:29,	2.82it/s]
Power Factorization: 16%	80/500 [00:28<02:30,	2.79it/s]
Power Factorization: 16%	81/500 [00:28<02:26,	2.86it/s]
Power Factorization: 16%	82/500 [00:29<02:29,	2.80it/s]
Power Factorization: 17%	83/500 [00:29<02:32,	2.74it/s]
Power Factorization: 17%	84/500 [00:29<02:28,	2.81it/s]
Power Factorization: 17%	85/500 [00:30<02:27,	2.81it/s]
Power Factorization: 17%	86/500 [00:30<02:27,	2.82it/s]
Power Factorization: 17%	87/500 [00:30<02:23,	2.88it/s]
Power Factorization: 18%	88/500 [00:31<02:22,	2.89it/s]
Power Factorization: 18%	89/500 [00:31<02:20,	2.92it/s]
Power Factorization: 18%	90/500 [00:32<02:26,	2.80it/s]

Power Factorization: 18%	91/500 [00:32<02:26, 2.79it/s]
Power Factorization: 18%	92/500 [00:32<02:27, 2.76it/s]
Power Factorization: 19%	93/500 [00:33<02:29, 2.72it/s]
Power Factorization: 19%	94/500 [00:33<02:26, 2.78it/s]
Power Factorization: 19%	95/500 [00:33<02:24, 2.80it/s]
Power Factorization: 19%	96/500 [00:34<02:23, 2.81it/s]
Power Factorization: 19%	97/500 [00:34<02:20, 2.87it/s]
Power Factorization: 20%	98/500 [00:34<02:25, 2.76it/s]
Power Factorization: 20%	99/500 [00:35<02:24, 2.77it/s]
Power Factorization: 20%	100/500 [00:35<02:22, 2.81it/s]
Power Factorization: 20%	101/500 [00:35<02:23, 2.79it/s]
Power Factorization: 20%	102/500 [00:36<02:27, 2.70it/s]
Power Factorization: 21%	103/500 [00:36<02:28, 2.68it/s]
Power Factorization: 21%	104/500 [00:37<02:23, 2.77it/s]
Power Factorization: 21%	105/500 [00:37<02:18, 2.86it/s]
Power Factorization: 21%	106/500 [00:37<02:19, 2.82it/s]
Power Factorization: 21%	107/500 [00:38<02:20, 2.81it/s]
Power Factorization: 22%	108/500 [00:38<02:23, 2.74it/s]
Power Factorization: 22%	109/500 [00:38<02:16, 2.86it/s]
Power Factorization: 22%	110/500 [00:39<02:14, 2.91it/s]
Power Factorization: 22%	111/500 [00:39<02:16, 2.85it/s]
Power Factorization: 22%	112/500 [00:39<02:16, 2.83it/s]
Power Factorization: 23%	113/500 [00:40<02:15, 2.86it/s]
Power Factorization: 23%	114/500 [00:40<02:13, 2.90it/s]

Power Factorization: 23%	115/500 [00:40<02:14, 2.87it/s]
Power Factorization: 23%	116/500 [00:41<02:12, 2.90it/s]
Power Factorization: 23%	117/500 [00:41<02:15, 2.83it/s]
Power Factorization: 24%	118/500 [00:41<02:11, 2.91it/s]
Power Factorization: 24%	119/500 [00:42<02:15, 2.80it/s]
Power Factorization: 24%	120/500 [00:42<02:14, 2.82it/s]
Power Factorization: 24%	121/500 [00:43<02:15, 2.81it/s]
Power Factorization: 24%	122/500 [00:43<02:22, 2.66it/s]
Power Factorization: 25%	123/500 [00:43<02:25, 2.59it/s]
Power Factorization: 25%	124/500 [00:44<02:21, 2.66it/s]
Power Factorization: 25%	125/500 [00:44<02:14, 2.80it/s]
Power Factorization: 25%	126/500 [00:44<02:15, 2.77it/s]
Power Factorization: 25%	127/500 [00:45<02:10, 2.85it/s]
Power Factorization: 26%	128/500 [00:45<02:11, 2.82it/s]
Power Factorization: 26%	129/500 [00:46<02:13, 2.78it/s]
Power Factorization: 26%	130/500 [00:46<02:16, 2.72it/s]
Power Factorization: 26%	131/500 [00:46<02:17, 2.69it/s]
Power Factorization: 26%	132/500 [00:47<02:17, 2.68it/s]
Power Factorization: 27%	133/500 [00:47<02:17, 2.66it/s]
Power Factorization: 27%	134/500 [00:47<02:20, 2.60it/s]
Power Factorization: 27%	135/500 [00:48<02:10, 2.80it/s]
Power Factorization: 27%	136/500 [00:48<02:07, 2.85it/s]
Power Factorization: 27%	137/500 [00:48<02:07, 2.84it/s]
Power Factorization: 28%	138/500 [00:49<02:05, 2.88it/s]

Power Factorization: 28%	139/500 [00:49<02:08, 2.81it/s]
Power Factorization: 28%	140/500 [00:49<02:03, 2.90it/s]
Power Factorization: 28%	141/500 [00:50<02:03, 2.91it/s]
Power Factorization: 28%	142/500 [00:50<02:05, 2.84it/s]
Power Factorization: 29%	143/500 [00:51<02:05, 2.85it/s]
Power Factorization: 29%	144/500 [00:51<02:04, 2.87it/s]
Power Factorization: 29%	145/500 [00:51<02:04, 2.85it/s]
Power Factorization: 29%	146/500 [00:52<02:17, 2.58it/s]
Power Factorization: 29%	147/500 [00:52<02:18, 2.56it/s]
Power Factorization: 30%	148/500 [00:52<02:10, 2.70it/s]
Power Factorization: 30%	149/500 [00:53<02:05, 2.79it/s]
Power Factorization: 30%	150/500 [00:53<02:06, 2.76it/s]
Power Factorization: 30%	151/500 [00:54<02:10, 2.68it/s]
Power Factorization: 30%	152/500 [00:54<02:08, 2.72it/s]
Power Factorization: 31%	153/500 [00:54<02:00, 2.89it/s]
Power Factorization: 31%	154/500 [00:54<01:55, 2.98it/s]
Power Factorization: 31%	155/500 [00:55<01:59, 2.89it/s]
Power Factorization: 31%	156/500 [00:55<02:03, 2.80it/s]
Power Factorization: 31%	157/500 [00:56<01:56, 2.94it/s]
Power Factorization: 32%	158/500 [00:56<01:58, 2.89it/s]
Power Factorization: 32%	159/500 [00:56<02:07, 2.68it/s]
Power Factorization: 32%	160/500 [00:57<02:00, 2.81it/s]
Power Factorization: 32%	161/500 [00:57<02:00, 2.81it/s]
Power Factorization: 32%	162/500 [00:57<02:00, 2.81it/s]

Power Factorization: 33%	163/500 [00:58<01:57, 2.88it/s]
Power Factorization: 33%	164/500 [00:58<02:01, 2.77it/s]
Power Factorization: 33%	165/500 [00:58<02:06, 2.64it/s]
Power Factorization: 33%	166/500 [00:59<02:04, 2.67it/s]
Power Factorization: 33%	167/500 [00:59<02:12, 2.51it/s]
Power Factorization: 34%	168/500 [01:00<02:12, 2.51it/s]
Power Factorization: 34%	169/500 [01:00<02:07, 2.60it/s]
Power Factorization: 34%	170/500 [01:00<02:03, 2.67it/s]
Power Factorization: 34%	171/500 [01:01<02:01, 2.70it/s]
Power Factorization: 34%	172/500 [01:01<02:01, 2.70it/s]
Power Factorization: 35%	173/500 [01:01<01:57, 2.79it/s]
Power Factorization: 35%	174/500 [01:02<01:55, 2.82it/s]
Power Factorization: 35%	175/500 [01:02<01:59, 2.72it/s]
Power Factorization: 35%	176/500 [01:03<01:59, 2.70it/s]
Power Factorization: 35%	177/500 [01:03<01:58, 2.72it/s]
Power Factorization: 36%	178/500 [01:03<01:54, 2.82it/s]
Power Factorization: 36%	179/500 [01:04<01:51, 2.89it/s]
Power Factorization: 36%	180/500 [01:04<01:48, 2.94it/s]
Power Factorization: 36%	181/500 [01:04<01:53, 2.81it/s]
Power Factorization: 36%	182/500 [01:05<01:54, 2.77it/s]
Power Factorization: 37%	183/500 [01:05<01:52, 2.82it/s]
Power Factorization: 37%	184/500 [01:05<01:45, 3.01it/s]
Power Factorization: 37%	185/500 [01:06<01:46, 2.96it/s]
Power Factorization: 37%	186/500 [01:06<01:57, 2.67it/s]

Power Factorization: 37%	187/500 [01:07<02:02, 2.55it/s]
Power Factorization: 38%	188/500 [01:07<01:56, 2.67it/s]
Power Factorization: 38%	189/500 [01:07<01:54, 2.71it/s]
Power Factorization: 38%	190/500 [01:08<01:52, 2.75it/s]
Power Factorization: 38%	191/500 [01:08<01:53, 2.72it/s]
Power Factorization: 38%	192/500 [01:08<01:48, 2.84it/s]
Power Factorization: 39%	193/500 [01:09<01:46, 2.88it/s]
Power Factorization: 39%	194/500 [01:09<01:45, 2.90it/s]
Power Factorization: 39%	195/500 [01:09<01:46, 2.88it/s]
Power Factorization: 39%	196/500 [01:10<01:52, 2.70it/s]
Power Factorization: 39%	197/500 [01:10<01:58, 2.56it/s]
Power Factorization: 40%	198/500 [01:11<01:55, 2.62it/s]
Power Factorization: 40%	199/500 [01:11<01:57, 2.55it/s]
Power Factorization: 40%	200/500 [01:11<01:55, 2.60it/s]
Power Factorization: 40%	201/500 [01:12<01:52, 2.66it/s]
Power Factorization: 40%	202/500 [01:12<01:46, 2.80it/s]
Power Factorization: 41%	203/500 [01:12<01:47, 2.77it/s]
Power Factorization: 41%	204/500 [01:13<01:47, 2.76it/s]
Power Factorization: 41%	205/500 [01:13<01:41, 2.90it/s]
Power Factorization: 41%	206/500 [01:13<01:41, 2.90it/s]
Power Factorization: 41%	207/500 [01:14<01:40, 2.93it/s]
Power Factorization: 42%	208/500 [01:14<01:42, 2.84it/s]
Power Factorization: 42%	209/500 [01:14<01:43, 2.80it/s]
Power Factorization: 42%	210/500 [01:15<01:40, 2.90it/s]

Power Factorization: 42%	211/500 [01:15<01:36, 2.99it/s]
Power Factorization: 42%	212/500 [01:15<01:35, 3.02it/s]
Power Factorization: 43%	213/500 [01:16<01:36, 2.97it/s]
Power Factorization: 43%	214/500 [01:16<01:32, 3.08it/s]
Power Factorization: 43%	215/500 [01:16<01:33, 3.05it/s]
Power Factorization: 43%	216/500 [01:17<01:36, 2.93it/s]
Power Factorization: 43%	217/500 [01:17<01:37, 2.89it/s]
Power Factorization: 44%	218/500 [01:17<01:39, 2.84it/s]
Power Factorization: 44%	219/500 [01:18<01:42, 2.75it/s]
Power Factorization: 44%	220/500 [01:18<01:44, 2.67it/s]
Power Factorization: 44%	221/500 [01:19<01:39, 2.80it/s]
Power Factorization: 44%	222/500 [01:19<01:41, 2.73it/s]
Power Factorization: 45%	223/500 [01:19<01:48, 2.55it/s]
Power Factorization: 45%	224/500 [01:20<01:39, 2.77it/s]
Power Factorization: 45%	225/500 [01:20<01:39, 2.75it/s]
Power Factorization: 45%	226/500 [01:20<01:38, 2.78it/s]
Power Factorization: 45%	227/500 [01:21<01:35, 2.87it/s]
Power Factorization: 46%	228/500 [01:21<01:36, 2.81it/s]
Power Factorization: 46%	229/500 [01:21<01:34, 2.85it/s]
Power Factorization: 46%	230/500 [01:22<01:32, 2.92it/s]
Power Factorization: 46%	231/500 [01:22<01:30, 2.99it/s]
Power Factorization: 46%	232/500 [01:22<01:31, 2.93it/s]
Power Factorization: 47%	233/500 [01:23<01:29, 2.97it/s]
Power Factorization: 47%	234/500 [01:23<01:41, 2.62it/s]

Power Factorization: 47%	235/500 [01:24<01:41, 2.60it/s]
Power Factorization: 47%	236/500 [01:24<01:40, 2.64it/s]
Power Factorization: 47%	237/500 [01:24<01:34, 2.78it/s]
Power Factorization: 48%	238/500 [01:25<01:33, 2.80it/s]
Power Factorization: 48%	239/500 [01:25<01:29, 2.90it/s]
Power Factorization: 48%	240/500 [01:25<01:29, 2.91it/s]
Power Factorization: 48%	241/500 [01:26<01:31, 2.84it/s]
Power Factorization: 48%	242/500 [01:26<01:32, 2.79it/s]
Power Factorization: 49%	243/500 [01:26<01:26, 2.98it/s]
Power Factorization: 49%	244/500 [01:27<01:25, 2.99it/s]
Power Factorization: 49%	245/500 [01:27<01:33, 2.74it/s]
Power Factorization: 49%	246/500 [01:28<01:34, 2.69it/s]
Power Factorization: 49%	247/500 [01:28<01:30, 2.81it/s]
Power Factorization: 50%	248/500 [01:28<01:28, 2.85it/s]
Power Factorization: 50%	249/500 [01:29<01:25, 2.93it/s]
Power Factorization: 50%	250/500 [01:29<01:27, 2.86it/s]
Power Factorization: 50%	251/500 [01:29<01:25, 2.90it/s]
Power Factorization: 50%	252/500 [01:30<01:23, 2.97it/s]
Power Factorization: 51%	253/500 [01:30<01:22, 3.01it/s]
Power Factorization: 51%	254/500 [01:30<01:23, 2.94it/s]
Power Factorization: 51%	255/500 [01:31<01:21, 2.99it/s]
Power Factorization: 51%	256/500 [01:31<01:23, 2.91it/s]
Power Factorization: 51%	257/500 [01:31<01:25, 2.84it/s]
Power Factorization: 52%	258/500 [01:32<01:22, 2.92it/s]

Power Factorization: 52%	259/500 [01:32<01:19, 3.02it/s]
Power Factorization: 52%	260/500 [01:32<01:23, 2.89it/s]
Power Factorization: 52%	261/500 [01:33<01:25, 2.78it/s]
Power Factorization: 52%	262/500 [01:33<01:23, 2.85it/s]
Power Factorization: 53%	263/500 [01:33<01:23, 2.82it/s]
Power Factorization: 53%	264/500 [01:34<01:23, 2.82it/s]
Power Factorization: 53%	265/500 [01:34<01:21, 2.87it/s]
Power Factorization: 53%	266/500 [01:34<01:21, 2.88it/s]
Power Factorization: 53%	267/500 [01:35<01:20, 2.89it/s]
Power Factorization: 54%	268/500 [01:35<01:25, 2.72it/s]
Power Factorization: 54%	269/500 [01:36<01:29, 2.59it/s]
Power Factorization: 54%	270/500 [01:36<01:26, 2.67it/s]
Power Factorization: 54%	271/500 [01:36<01:23, 2.75it/s]
Power Factorization: 54%	272/500 [01:37<01:21, 2.79it/s]
Power Factorization: 55%	273/500 [01:37<01:21, 2.78it/s]
Power Factorization: 55%	274/500 [01:37<01:18, 2.87it/s]
Power Factorization: 55%	275/500 [01:38<01:20, 2.80it/s]
Power Factorization: 55%	276/500 [01:38<01:18, 2.84it/s]
Power Factorization: 55%	277/500 [01:38<01:19, 2.79it/s]
Power Factorization: 56%	278/500 [01:39<01:18, 2.83it/s]
Power Factorization: 56%	279/500 [01:39<01:24, 2.60it/s]
Power Factorization: 56%	280/500 [01:40<01:21, 2.69it/s]
Power Factorization: 56%	281/500 [01:40<01:21, 2.70it/s]
Power Factorization: 56%	282/500 [01:40<01:18, 2.79it/s]

Power Factorization: 57%	283/500 [01:41<01:14, 2.89it/s]
Power Factorization: 57%	284/500 [01:41<01:14, 2.91it/s]
Power Factorization: 57%	285/500 [01:41<01:12, 2.98it/s]
Power Factorization: 57%	286/500 [01:42<01:15, 2.82it/s]
Power Factorization: 57%	287/500 [01:42<01:16, 2.78it/s]
Power Factorization: 58%	288/500 [01:42<01:14, 2.84it/s]
Power Factorization: 58%	289/500 [01:43<01:12, 2.93it/s]
Power Factorization: 58%	290/500 [01:43<01:09, 3.02it/s]
Power Factorization: 58%	291/500 [01:43<01:07, 3.12it/s]
Power Factorization: 58%	292/500 [01:44<01:11, 2.89it/s]
Power Factorization: 59%	293/500 [01:44<01:11, 2.89it/s]
Power Factorization: 59%	294/500 [01:44<01:12, 2.84it/s]
Power Factorization: 59%	295/500 [01:45<01:12, 2.81it/s]
Power Factorization: 59%	296/500 [01:45<01:11, 2.84it/s]
Power Factorization: 59%	297/500 [01:45<01:08, 2.97it/s]
Power Factorization: 60%	298/500 [01:46<01:06, 3.03it/s]
Power Factorization: 60%	299/500 [01:46<01:05, 3.07it/s]
Power Factorization: 60%	300/500 [01:46<01:06, 3.02it/s]
Power Factorization: 60%	301/500 [01:47<01:08, 2.91it/s]
Power Factorization: 60%	302/500 [01:47<01:06, 2.97it/s]
Power Factorization: 61%	303/500 [01:47<01:07, 2.91it/s]
Power Factorization: 61%	304/500 [01:48<01:06, 2.95it/s]
Power Factorization: 61%	305/500 [01:48<01:03, 3.07it/s]
Power Factorization: 61%	306/500 [01:48<01:04, 3.01it/s]

Power Factorization: 61%	307/500 [01:49<01:05, 2.96it/s]
Power Factorization: 62%	308/500 [01:49<01:03, 3.03it/s]
Power Factorization: 62%	309/500 [01:49<01:03, 3.02it/s]
Power Factorization: 62%	310/500 [01:50<01:04, 2.95it/s]
Power Factorization: 62%	311/500 [01:50<01:04, 2.95it/s]
Power Factorization: 62%	312/500 [01:50<01:03, 2.95it/s]
Power Factorization: 63%	313/500 [01:51<01:05, 2.84it/s]
Power Factorization: 63%	314/500 [01:51<01:05, 2.84it/s]
Power Factorization: 63%	315/500 [01:51<01:04, 2.88it/s]
Power Factorization: 63%	316/500 [01:52<01:04, 2.87it/s]
Power Factorization: 63%	317/500 [01:52<01:01, 2.97it/s]
Power Factorization: 64%	318/500 [01:52<00:59, 3.04it/s]
Power Factorization: 64%	319/500 [01:53<01:00, 2.98it/s]
Power Factorization: 64%	320/500 [01:53<00:59, 3.04it/s]
Power Factorization: 64%	321/500 [01:53<00:59, 3.03it/s]
Power Factorization: 64%	322/500 [01:54<00:59, 2.97it/s]
Power Factorization: 65%	323/500 [01:54<00:59, 2.97it/s]
Power Factorization: 65%	324/500 [01:54<00:58, 2.98it/s]
Power Factorization: 65%	325/500 [01:55<01:00, 2.87it/s]
Power Factorization: 65%	326/500 [01:55<00:59, 2.92it/s]
Power Factorization: 65%	327/500 [01:56<01:00, 2.85it/s]
Power Factorization: 66%	328/500 [01:56<00:58, 2.92it/s]
Power Factorization: 66%	329/500 [01:56<00:59, 2.87it/s]
Power Factorization: 66%	330/500 [01:57<01:00, 2.82it/s]

Power Factorization: 66%	331/500 [01:57<00:59, 2.83it/s]
Power Factorization: 66%	332/500 [01:57<00:56, 2.98it/s]
Power Factorization: 67%	333/500 [01:58<00:53, 3.13it/s]
Power Factorization: 67%	334/500 [01:58<00:52, 3.16it/s]
Power Factorization: 67%	335/500 [01:58<00:54, 3.02it/s]
Power Factorization: 67%	336/500 [01:59<00:56, 2.91it/s]
Power Factorization: 67%	337/500 [01:59<00:55, 2.94it/s]
Power Factorization: 68%	338/500 [01:59<00:54, 2.99it/s]
Power Factorization: 68%	339/500 [02:00<00:54, 2.97it/s]
Power Factorization: 68%	340/500 [02:00<00:54, 2.96it/s]
Power Factorization: 68%	341/500 [02:00<00:52, 3.01it/s]
Power Factorization: 68%	342/500 [02:01<00:56, 2.77it/s]
Power Factorization: 69%	343/500 [02:01<00:55, 2.82it/s]
Power Factorization: 69%	344/500 [02:01<00:55, 2.82it/s]
Power Factorization: 69%	345/500 [02:02<00:53, 2.89it/s]
Power Factorization: 69%	346/500 [02:02<00:51, 3.02it/s]
Power Factorization: 69%	347/500 [02:02<00:51, 3.00it/s]
Power Factorization: 70%	348/500 [02:03<00:51, 2.96it/s]
Power Factorization: 70%	349/500 [02:03<00:51, 2.95it/s]
Power Factorization: 70%	350/500 [02:03<00:49, 3.04it/s]
Power Factorization: 70%	351/500 [02:04<00:49, 2.99it/s]
Power Factorization: 70%	352/500 [02:04<00:49, 3.01it/s]
Power Factorization: 71%	353/500 [02:04<00:51, 2.84it/s]
Power Factorization: 71%	354/500 [02:05<00:49, 2.97it/s]

Power Factorization: 71%	355/500 [02:05<00:49, 2.92it/s]
Power Factorization: 71%	356/500 [02:05<00:50, 2.86it/s]
Power Factorization: 71%	357/500 [02:06<00:50, 2.82it/s]
Power Factorization: 72%	358/500 [02:06<00:49, 2.86it/s]
Power Factorization: 72%	359/500 [02:06<00:51, 2.76it/s]
Power Factorization: 72%	360/500 [02:07<00:48, 2.90it/s]
Power Factorization: 72%	361/500 [02:07<00:46, 2.98it/s]
Power Factorization: 72%	362/500 [02:07<00:47, 2.91it/s]
Power Factorization: 73%	363/500 [02:08<00:47, 2.90it/s]
Power Factorization: 73%	364/500 [02:08<00:49, 2.75it/s]
Power Factorization: 73%	365/500 [02:09<00:48, 2.76it/s]
Power Factorization: 73%	366/500 [02:09<00:48, 2.79it/s]
Power Factorization: 73%	367/500 [02:09<00:46, 2.85it/s]
Power Factorization: 74%	368/500 [02:10<00:44, 2.94it/s]
Power Factorization: 74%	369/500 [02:10<00:44, 2.95it/s]
Power Factorization: 74%	370/500 [02:10<00:44, 2.91it/s]
Power Factorization: 74%	371/500 [02:11<00:44, 2.88it/s]
Power Factorization: 74%	372/500 [02:11<00:46, 2.74it/s]
Power Factorization: 75%	373/500 [02:11<00:47, 2.69it/s]
Power Factorization: 75%	374/500 [02:12<00:45, 2.79it/s]
Power Factorization: 75%	375/500 [02:12<00:44, 2.83it/s]
Power Factorization: 75%	376/500 [02:12<00:44, 2.76it/s]
Power Factorization: 75%	377/500 [02:13<00:44, 2.74it/s]
Power Factorization: 76%	378/500 [02:13<00:43, 2.83it/s]

Power Factorization: 76%	379/500 [02:13<00:41,	2.88it/s]
Power Factorization: 76%	380/500 [02:14<00:41,	2.86it/s]
Power Factorization: 76%	381/500 [02:14<00:41,	2.90it/s]
Power Factorization: 76%	382/500 [02:15<00:40,	2.94it/s]
Power Factorization: 77%	383/500 [02:15<00:40,	2.90it/s]
Power Factorization: 77%	384/500 [02:15<00:39,	2.94it/s]
Power Factorization: 77%	385/500 [02:16<00:39,	2.94it/s]
Power Factorization: 77%	386/500 [02:16<00:40,	2.83it/s]
Power Factorization: 77%	387/500 [02:16<00:41,	2.70it/s]
Power Factorization: 78%	388/500 [02:17<00:40,	2.76it/s]
Power Factorization: 78%	389/500 [02:17<00:39,	2.80it/s]
Power Factorization: 78%	390/500 [02:17<00:39,	2.79it/s]
Power Factorization: 78%	391/500 [02:18<00:39,	2.77it/s]
Power Factorization: 78%	392/500 [02:18<00:36,	2.94it/s]
Power Factorization: 79%	393/500 [02:18<00:37,	2.89it/s]
Power Factorization: 79%	394/500 [02:19<00:36,	2.89it/s]
Power Factorization: 79%	395/500 [02:19<00:35,	2.96it/s]
Power Factorization: 79%	396/500 [02:19<00:36,	2.85it/s]
Power Factorization: 79%	397/500 [02:20<00:35,	2.87it/s]
Power Factorization: 80%	398/500 [02:20<00:35,	2.89it/s]
Power Factorization: 80%	399/500 [02:20<00:35,	2.85it/s]
Power Factorization: 80%	400/500 [02:21<00:35,	2.84it/s]
Power Factorization: 80%	401/500 [02:21<00:34,	2.85it/s]
Power Factorization: 80%	402/500 [02:22<00:34,	2.87it/s]

Power Factorization: 81%	403/500 [02:22<00:34,	2.85it/s]
Power Factorization: 81%	404/500 [02:22<00:33,	2.89it/s]
Power Factorization: 81%	405/500 [02:23<00:33,	2.82it/s]
Power Factorization: 81%	406/500 [02:23<00:33,	2.83it/s]
Power Factorization: 81%	407/500 [02:23<00:32,	2.85it/s]
Power Factorization: 82%	408/500 [02:24<00:32,	2.86it/s]
Power Factorization: 82%	409/500 [02:24<00:32,	2.81it/s]
Power Factorization: 82%	410/500 [02:24<00:33,	2.70it/s]
Power Factorization: 82%	411/500 [02:25<00:32,	2.77it/s]
Power Factorization: 82%	412/500 [02:25<00:31,	2.78it/s]
Power Factorization: 83%	413/500 [02:25<00:30,	2.86it/s]
Power Factorization: 83%	414/500 [02:26<00:32,	2.61it/s]
Power Factorization: 83%	415/500 [02:26<00:32,	2.60it/s]
Power Factorization: 83%	416/500 [02:27<00:32,	2.60it/s]
Power Factorization: 83%	417/500 [02:27<00:31,	2.64it/s]
Power Factorization: 84%	418/500 [02:27<00:31,	2.63it/s]
Power Factorization: 84%	419/500 [02:28<00:29,	2.72it/s]
Power Factorization: 84%	420/500 [02:28<00:28,	2.76it/s]
Power Factorization: 84%	421/500 [02:28<00:28,	2.78it/s]
Power Factorization: 84%	422/500 [02:29<00:27,	2.79it/s]
Power Factorization: 85%	423/500 [02:29<00:26,	2.87it/s]
Power Factorization: 85%	424/500 [02:30<00:27,	2.78it/s]
Power Factorization: 85%	425/500 [02:30<00:26,	2.86it/s]
Power Factorization: 85%	426/500 [02:30<00:25,	2.86it/s]

Power Factorization: 85%	427/500 [02:31<00:25,	2.85it/s]
Power Factorization: 86%	428/500 [02:31<00:24,	2.90it/s]
Power Factorization: 86%	429/500 [02:31<00:24,	2.87it/s]
Power Factorization: 86%	430/500 [02:32<00:24,	2.84it/s]
Power Factorization: 86%	431/500 [02:32<00:25,	2.74it/s]
Power Factorization: 86%	432/500 [02:32<00:24,	2.77it/s]
Power Factorization: 87%	433/500 [02:33<00:24,	2.69it/s]
Power Factorization: 87%	434/500 [02:33<00:23,	2.85it/s]
Power Factorization: 87%	435/500 [02:33<00:23,	2.78it/s]
Power Factorization: 87%	436/500 [02:34<00:24,	2.59it/s]
Power Factorization: 87%	437/500 [02:34<00:23,	2.67it/s]
Power Factorization: 88%	438/500 [02:35<00:22,	2.72it/s]
Power Factorization: 88%	439/500 [02:35<00:22,	2.75it/s]
Power Factorization: 88%	440/500 [02:35<00:21,	2.83it/s]
Power Factorization: 88%	441/500 [02:36<00:20,	2.92it/s]
Power Factorization: 88%	442/500 [02:36<00:29,	1.95it/s]
Power Factorization: 89%	443/500 [02:38<00:38,	1.49it/s]
Power Factorization: 89%	444/500 [02:38<00:34,	1.62it/s]
Power Factorization: 89%	445/500 [02:38<00:29,	1.84it/s]
Power Factorization: 89%	446/500 [02:39<00:35,	1.52it/s]
Power Factorization: 89%	447/500 [02:40<00:41,	1.27it/s]
Power Factorization: 90%	448/500 [02:41<00:35,	1.46it/s]
Power Factorization: 90%	449/500 [02:41<00:30,	1.66it/s]
Power Factorization: 90%	450/500 [02:42<00:27,	1.83it/s]

Power Factorization: 90%	451/500 [02:42<00:25,	1.95it/s]
Power Factorization: 90%	452/500 [02:43<00:22,	2.12it/s]
Power Factorization: 91%	453/500 [02:43<00:21,	2.20it/s]
Power Factorization: 91%	454/500 [02:43<00:19,	2.32it/s]
Power Factorization: 91%	455/500 [02:44<00:19,	2.35it/s]
Power Factorization: 91%	456/500 [02:44<00:18,	2.33it/s]
Power Factorization: 91%	457/500 [02:45<00:18,	2.38it/s]
Power Factorization: 92%	458/500 [02:45<00:17,	2.45it/s]
Power Factorization: 92%	459/500 [02:45<00:16,	2.53it/s]
Power Factorization: 92%	460/500 [02:46<00:14,	2.69it/s]
Power Factorization: 92%	461/500 [02:46<00:14,	2.64it/s]
Power Factorization: 92%	462/500 [02:46<00:14,	2.67it/s]
Power Factorization: 93%	463/500 [02:47<00:13,	2.75it/s]
Power Factorization: 93%	464/500 [02:47<00:12,	2.79it/s]
Power Factorization: 93%	465/500 [02:47<00:11,	2.92it/s]
Power Factorization: 93%	466/500 [02:48<00:11,	2.85it/s]
Power Factorization: 93%	467/500 [02:48<00:11,	2.78it/s]
Power Factorization: 94%	468/500 [02:48<00:11,	2.78it/s]
Power Factorization: 94%	469/500 [02:49<00:11,	2.70it/s]
Power Factorization: 94%	470/500 [02:49<00:10,	2.74it/s]
Power Factorization: 94%	471/500 [02:50<00:10,	2.84it/s]
Power Factorization: 94%	472/500 [02:50<00:09,	2.91it/s]
Power Factorization: 95%	473/500 [02:50<00:09,	2.95it/s]
Power Factorization: 95%	474/500 [02:51<00:09,	2.83it/s]

Power Factorization: 95%	475/500 [02:51<00:08, 2.85it/s]
Power Factorization: 95%	476/500 [02:51<00:08, 2.76it/s]
Power Factorization: 95%	477/500 [02:52<00:09, 2.41it/s]
Power Factorization: 96%	478/500 [02:52<00:08, 2.48it/s]
Power Factorization: 96%	479/500 [02:53<00:08, 2.60it/s]
Power Factorization: 96%	480/500 [02:53<00:07, 2.67it/s]
Power Factorization: 96%	481/500 [02:53<00:07, 2.70it/s]
Power Factorization: 96%	482/500 [02:54<00:06, 2.68it/s]
Power Factorization: 97%	483/500 [02:54<00:06, 2.65it/s]
Power Factorization: 97%	484/500 [02:54<00:06, 2.57it/s]
Power Factorization: 97%	485/500 [02:55<00:05, 2.59it/s]
Power Factorization: 97%	486/500 [02:55<00:05, 2.60it/s]
Power Factorization: 97%	487/500 [02:56<00:04, 2.61it/s]
Power Factorization: 98%	488/500 [02:56<00:04, 2.74it/s]
Power Factorization: 98%	489/500 [02:56<00:03, 2.81it/s]
Power Factorization: 98%	490/500 [02:57<00:03, 2.56it/s]
Power Factorization: 98%	491/500 [02:57<00:03, 2.43it/s]
Power Factorization: 98%	492/500 [02:58<00:03, 2.43it/s]
Power Factorization: 99%	493/500 [02:58<00:02, 2.50it/s]
Power Factorization: 99%	494/500 [02:58<00:02, 2.49it/s]
Power Factorization: 99%	495/500 [02:59<00:01, 2.52it/s]
Power Factorization: 99%	496/500 [02:59<00:01, 2.54it/s]
Power Factorization: 99%	497/500 [03:00<00:01, 2.53it/s]
Power Factorization: 100%	498/500 [03:00<00:00, 2.58it/s]

Power Factorization: 100%	499/500 [03:00<00:00, 2.72it/s]
Power Factorization: 100%	500/500 [03:01<00:00, 2.76it/s]
Cross Validation: 60%	3/5 [08:49<05:55, 177.51s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:11, 2.60it/s]
Power Factorization: 0%	2/500 [00:00<03:09, 2.63it/s]
Power Factorization: 1%	3/500 [00:01<03:03, 2.70it/s]
Power Factorization: 1%	4/500 [00:01<02:51, 2.90it/s]
Power Factorization: 1%	5/500 [00:01<02:52, 2.87it/s]
Power Factorization: 1%	6/500 [00:02<02:52, 2.86it/s]
Power Factorization: 1%	7/500 [00:02<02:54, 2.82it/s]
Power Factorization: 2%	8/500 [00:02<02:52, 2.86it/s]
Power Factorization: 2%	9/500 [00:03<02:52, 2.84it/s]
Power Factorization: 2%	10/500 [00:03<02:56, 2.77it/s]
Power Factorization: 2%	11/500 [00:03<02:58, 2.74it/s]
Power Factorization: 2%	12/500 [00:04<02:58, 2.74it/s]
Power Factorization: 3%	13/500 [00:04<03:03, 2.65it/s]
Power Factorization: 3%	14/500 [00:05<03:02, 2.66it/s]
Power Factorization: 3%	15/500 [00:05<03:13, 2.51it/s]
Power Factorization: 3%	16/500 [00:05<03:00, 2.68it/s]
Power Factorization: 3%	17/500 [00:06<02:50, 2.84it/s]
Power Factorization: 4%	18/500 [00:06<02:50, 2.83it/s]
Power Factorization: 4%	19/500 [00:06<02:46, 2.88it/s]
Power Factorization: 4%	20/500 [00:07<02:43, 2.93it/s]

Power Factorization:	4%	21/500	[00:07<02:38, 3.03it/s]
Power Factorization:	4%	22/500	[00:07<02:39, 3.00it/s]
Power Factorization:	5%	23/500	[00:08<02:32, 3.14it/s]
Power Factorization:	5%	24/500	[00:08<02:25, 3.27it/s]
Power Factorization:	5%	25/500	[00:08<02:24, 3.29it/s]
Power Factorization:	5%	26/500	[00:09<02:29, 3.17it/s]
Power Factorization:	5%	27/500	[00:09<02:32, 3.10it/s]
Power Factorization:	6%	28/500	[00:09<02:36, 3.02it/s]
Power Factorization:	6%	29/500	[00:10<02:32, 3.08it/s]
Power Factorization:	6%	30/500	[00:10<02:34, 3.05it/s]
Power Factorization:	6%	31/500	[00:10<02:31, 3.10it/s]
Power Factorization:	6%	32/500	[00:11<02:34, 3.03it/s]
Power Factorization:	7%	33/500	[00:11<02:27, 3.17it/s]
Power Factorization:	7%	34/500	[00:11<02:34, 3.02it/s]
Power Factorization:	7%	35/500	[00:12<02:43, 2.85it/s]
Power Factorization:	7%	36/500	[00:12<02:46, 2.79it/s]
Power Factorization:	7%	37/500	[00:12<02:36, 2.96it/s]
Power Factorization:	8%	38/500	[00:13<02:33, 3.01it/s]
Power Factorization:	8%	39/500	[00:13<02:31, 3.04it/s]
Power Factorization:	8%	40/500	[00:13<02:26, 3.13it/s]
Power Factorization:	8%	41/500	[00:14<02:30, 3.05it/s]
Power Factorization:	8%	42/500	[00:14<02:32, 3.00it/s]
Power Factorization:	9%	43/500	[00:14<02:33, 2.97it/s]
Power Factorization:	9%	44/500	[00:15<02:31, 3.02it/s]

Power Factorization:	9%	45/500 [00:15<02:24,	3.14it/s]
Power Factorization:	9%	46/500 [00:15<02:25,	3.12it/s]
Power Factorization:	9%	47/500 [00:16<02:34,	2.92it/s]
Power Factorization:	10%	48/500 [00:16<02:32,	2.97it/s]
Power Factorization:	10%	49/500 [00:16<02:36,	2.89it/s]
Power Factorization:	10%	50/500 [00:17<02:33,	2.93it/s]
Power Factorization:	10%	51/500 [00:17<02:36,	2.88it/s]
Power Factorization:	10%	52/500 [00:17<02:29,	3.01it/s]
Power Factorization:	11%	53/500 [00:18<02:28,	3.02it/s]
Power Factorization:	11%	54/500 [00:18<02:28,	3.01it/s]
Power Factorization:	11%	55/500 [00:18<02:27,	3.02it/s]
Power Factorization:	11%	56/500 [00:19<02:31,	2.94it/s]
Power Factorization:	11%	57/500 [00:19<02:26,	3.03it/s]
Power Factorization:	12%	58/500 [00:19<02:26,	3.01it/s]
Power Factorization:	12%	59/500 [00:20<02:30,	2.92it/s]
Power Factorization:	12%	60/500 [00:20<02:29,	2.94it/s]
Power Factorization:	12%	61/500 [00:20<02:24,	3.04it/s]
Power Factorization:	12%	62/500 [00:21<02:26,	2.99it/s]
Power Factorization:	13%	63/500 [00:21<02:26,	2.99it/s]
Power Factorization:	13%	64/500 [00:21<02:22,	3.06it/s]
Power Factorization:	13%	65/500 [00:22<02:26,	2.98it/s]
Power Factorization:	13%	66/500 [00:22<02:24,	3.00it/s]
Power Factorization:	13%	67/500 [00:22<02:25,	2.97it/s]
Power Factorization:	14%	68/500 [00:23<02:24,	2.98it/s]

Power Factorization: 14%	69/500 [00:23<02:24,	2.98it/s]
Power Factorization: 14%	70/500 [00:23<02:36,	2.75it/s]
Power Factorization: 14%	71/500 [00:24<02:33,	2.80it/s]
Power Factorization: 14%	72/500 [00:24<02:31,	2.82it/s]
Power Factorization: 15%	73/500 [00:24<02:32,	2.79it/s]
Power Factorization: 15%	74/500 [00:25<02:27,	2.89it/s]
Power Factorization: 15%	75/500 [00:25<02:22,	2.97it/s]
Power Factorization: 15%	76/500 [00:25<02:18,	3.06it/s]
Power Factorization: 15%	77/500 [00:26<02:14,	3.14it/s]
Power Factorization: 16%	78/500 [00:26<02:17,	3.08it/s]
Power Factorization: 16%	79/500 [00:26<02:14,	3.14it/s]
Power Factorization: 16%	80/500 [00:27<02:11,	3.20it/s]
Power Factorization: 16%	81/500 [00:27<02:08,	3.26it/s]
Power Factorization: 16%	82/500 [00:27<02:08,	3.25it/s]
Power Factorization: 17%	83/500 [00:27<02:07,	3.27it/s]
Power Factorization: 17%	84/500 [00:28<02:13,	3.12it/s]
Power Factorization: 17%	85/500 [00:28<02:10,	3.18it/s]
Power Factorization: 17%	86/500 [00:28<02:08,	3.22it/s]
Power Factorization: 17%	87/500 [00:29<02:08,	3.22it/s]
Power Factorization: 18%	88/500 [00:29<02:09,	3.17it/s]
Power Factorization: 18%	89/500 [00:29<02:03,	3.32it/s]
Power Factorization: 18%	90/500 [00:30<02:09,	3.16it/s]
Power Factorization: 18%	91/500 [00:30<02:13,	3.06it/s]
Power Factorization: 18%	92/500 [00:30<02:16,	2.99it/s]

Power Factorization: 19%	93/500 [00:31<02:17, 2.97it/s]
Power Factorization: 19%	94/500 [00:31<02:15, 3.00it/s]
Power Factorization: 19%	95/500 [00:31<02:16, 2.97it/s]
Power Factorization: 19%	96/500 [00:32<02:12, 3.04it/s]
Power Factorization: 19%	97/500 [00:32<02:17, 2.94it/s]
Power Factorization: 20%	98/500 [00:32<02:19, 2.88it/s]
Power Factorization: 20%	99/500 [00:33<02:25, 2.76it/s]
Power Factorization: 20%	100/500 [00:33<02:23, 2.79it/s]
Power Factorization: 20%	101/500 [00:34<02:20, 2.83it/s]
Power Factorization: 20%	102/500 [00:34<02:22, 2.79it/s]
Power Factorization: 21%	103/500 [00:34<02:17, 2.89it/s]
Power Factorization: 21%	104/500 [00:35<02:12, 2.99it/s]
Power Factorization: 21%	105/500 [00:35<02:10, 3.02it/s]
Power Factorization: 21%	106/500 [00:35<02:07, 3.10it/s]
Power Factorization: 21%	107/500 [00:36<02:12, 2.96it/s]
Power Factorization: 22%	108/500 [00:36<02:15, 2.90it/s]
Power Factorization: 22%	109/500 [00:36<02:09, 3.01it/s]
Power Factorization: 22%	110/500 [00:37<02:10, 2.99it/s]
Power Factorization: 22%	111/500 [00:37<02:10, 2.98it/s]
Power Factorization: 22%	112/500 [00:37<02:08, 3.01it/s]
Power Factorization: 23%	113/500 [00:38<02:17, 2.82it/s]
Power Factorization: 23%	114/500 [00:38<02:16, 2.83it/s]
Power Factorization: 23%	115/500 [00:38<02:08, 2.99it/s]
Power Factorization: 23%	116/500 [00:39<02:04, 3.08it/s]

Power Factorization: 23%	117/500 [00:39<02:01, 3.15it/s]
Power Factorization: 24%	118/500 [00:39<02:04, 3.08it/s]
Power Factorization: 24%	119/500 [00:39<02:02, 3.12it/s]
Power Factorization: 24%	120/500 [00:40<02:04, 3.04it/s]
Power Factorization: 24%	121/500 [00:40<02:03, 3.07it/s]
Power Factorization: 24%	122/500 [00:41<02:05, 3.01it/s]
Power Factorization: 25%	123/500 [00:41<02:01, 3.11it/s]
Power Factorization: 25%	124/500 [00:41<02:01, 3.09it/s]
Power Factorization: 25%	125/500 [00:41<02:02, 3.06it/s]
Power Factorization: 25%	126/500 [00:42<01:59, 3.12it/s]
Power Factorization: 25%	127/500 [00:42<02:01, 3.06it/s]
Power Factorization: 26%	128/500 [00:43<02:08, 2.90it/s]
Power Factorization: 26%	129/500 [00:43<02:05, 2.95it/s]
Power Factorization: 26%	130/500 [00:43<02:14, 2.76it/s]
Power Factorization: 26%	131/500 [00:44<02:13, 2.77it/s]
Power Factorization: 26%	132/500 [00:44<02:11, 2.79it/s]
Power Factorization: 27%	133/500 [00:44<02:06, 2.91it/s]
Power Factorization: 27%	134/500 [00:45<02:09, 2.82it/s]
Power Factorization: 27%	135/500 [00:45<01:57, 3.10it/s]
Power Factorization: 27%	136/500 [00:45<01:54, 3.18it/s]
Power Factorization: 27%	137/500 [00:45<01:52, 3.24it/s]
Power Factorization: 28%	138/500 [00:46<01:57, 3.08it/s]
Power Factorization: 28%	139/500 [00:46<01:56, 3.09it/s]
Power Factorization: 28%	140/500 [00:46<01:54, 3.14it/s]

Power Factorization: 28%	141/500 [00:47<01:52, 3.18it/s]
Power Factorization: 28%	142/500 [00:47<02:02, 2.93it/s]
Power Factorization: 29%	143/500 [00:47<01:58, 3.02it/s]
Power Factorization: 29%	144/500 [00:48<02:03, 2.89it/s]
Power Factorization: 29%	145/500 [00:48<02:05, 2.82it/s]
Power Factorization: 29%	146/500 [00:49<02:09, 2.74it/s]
Power Factorization: 29%	147/500 [00:49<02:07, 2.77it/s]
Power Factorization: 30%	148/500 [00:49<02:00, 2.91it/s]
Power Factorization: 30%	149/500 [00:50<01:57, 2.98it/s]
Power Factorization: 30%	150/500 [00:50<01:58, 2.94it/s]
Power Factorization: 30%	151/500 [00:50<01:57, 2.98it/s]
Power Factorization: 30%	152/500 [00:51<01:58, 2.95it/s]
Power Factorization: 31%	153/500 [00:51<01:56, 2.99it/s]
Power Factorization: 31%	154/500 [00:51<01:54, 3.01it/s]
Power Factorization: 31%	155/500 [00:52<01:57, 2.94it/s]
Power Factorization: 31%	156/500 [00:52<01:55, 2.98it/s]
Power Factorization: 31%	157/500 [00:52<01:54, 3.00it/s]
Power Factorization: 32%	158/500 [00:53<01:51, 3.06it/s]
Power Factorization: 32%	159/500 [00:53<01:50, 3.08it/s]
Power Factorization: 32%	160/500 [00:53<01:49, 3.10it/s]
Power Factorization: 32%	161/500 [00:54<01:49, 3.10it/s]
Power Factorization: 32%	162/500 [00:54<01:46, 3.16it/s]
Power Factorization: 33%	163/500 [00:54<01:44, 3.24it/s]
Power Factorization: 33%	164/500 [00:54<01:44, 3.23it/s]

Power Factorization: 33%	165/500 [00:55<01:43,	3.23it/s]
Power Factorization: 33%	166/500 [00:55<01:51,	3.00it/s]
Power Factorization: 33%	167/500 [00:55<01:50,	3.02it/s]
Power Factorization: 34%	168/500 [00:56<01:49,	3.05it/s]
Power Factorization: 34%	169/500 [00:56<01:47,	3.08it/s]
Power Factorization: 34%	170/500 [00:57<01:56,	2.83it/s]
Power Factorization: 34%	171/500 [00:57<01:56,	2.82it/s]
Power Factorization: 34%	172/500 [00:57<01:59,	2.74it/s]
Power Factorization: 35%	173/500 [00:58<01:55,	2.82it/s]
Power Factorization: 35%	174/500 [00:58<01:52,	2.91it/s]
Power Factorization: 35%	175/500 [00:58<01:49,	2.97it/s]
Power Factorization: 35%	176/500 [00:59<01:42,	3.16it/s]
Power Factorization: 35%	177/500 [00:59<01:37,	3.33it/s]
Power Factorization: 36%	178/500 [00:59<01:37,	3.29it/s]
Power Factorization: 36%	179/500 [00:59<01:40,	3.18it/s]
Power Factorization: 36%	180/500 [01:00<01:43,	3.09it/s]
Power Factorization: 36%	181/500 [01:00<01:42,	3.10it/s]
Power Factorization: 36%	182/500 [01:00<01:43,	3.06it/s]
Power Factorization: 37%	183/500 [01:01<01:39,	3.20it/s]
Power Factorization: 37%	184/500 [01:01<01:36,	3.26it/s]
Power Factorization: 37%	185/500 [01:01<01:41,	3.10it/s]
Power Factorization: 37%	186/500 [01:02<01:41,	3.10it/s]
Power Factorization: 37%	187/500 [01:02<01:39,	3.15it/s]
Power Factorization: 38%	188/500 [01:02<01:39,	3.12it/s]

Power Factorization: 38%	189/500 [01:03<01:39, 3.12it/s]
Power Factorization: 38%	190/500 [01:03<01:40, 3.10it/s]
Power Factorization: 38%	191/500 [01:03<01:33, 3.30it/s]
Power Factorization: 38%	192/500 [01:04<01:35, 3.21it/s]
Power Factorization: 39%	193/500 [01:04<01:39, 3.10it/s]
Power Factorization: 39%	194/500 [01:04<01:42, 2.99it/s]
Power Factorization: 39%	195/500 [01:05<01:43, 2.94it/s]
Power Factorization: 39%	196/500 [01:05<01:38, 3.08it/s]
Power Factorization: 39%	197/500 [01:05<01:36, 3.15it/s]
Power Factorization: 40%	198/500 [01:06<01:36, 3.14it/s]
Power Factorization: 40%	199/500 [01:06<01:38, 3.05it/s]
Power Factorization: 40%	200/500 [01:06<01:36, 3.12it/s]
Power Factorization: 40%	201/500 [01:06<01:33, 3.21it/s]
Power Factorization: 40%	202/500 [01:07<01:31, 3.25it/s]
Power Factorization: 41%	203/500 [01:07<01:33, 3.17it/s]
Power Factorization: 41%	204/500 [01:07<01:36, 3.08it/s]
Power Factorization: 41%	205/500 [01:08<01:36, 3.06it/s]
Power Factorization: 41%	206/500 [01:08<01:32, 3.18it/s]
Power Factorization: 41%	207/500 [01:08<01:34, 3.09it/s]
Power Factorization: 42%	208/500 [01:09<01:34, 3.09it/s]
Power Factorization: 42%	209/500 [01:09<01:32, 3.15it/s]
Power Factorization: 42%	210/500 [01:09<01:30, 3.22it/s]
Power Factorization: 42%	211/500 [01:10<01:29, 3.23it/s]
Power Factorization: 42%	212/500 [01:10<01:30, 3.18it/s]

Power Factorization: 43%	213/500 [01:10<01:30, 3.17it/s]
Power Factorization: 43%	214/500 [01:11<01:27, 3.27it/s]
Power Factorization: 43%	215/500 [01:11<01:30, 3.16it/s]
Power Factorization: 43%	216/500 [01:11<01:31, 3.12it/s]
Power Factorization: 43%	217/500 [01:12<01:34, 2.99it/s]
Power Factorization: 44%	218/500 [01:12<01:35, 2.97it/s]
Power Factorization: 44%	219/500 [01:12<01:39, 2.81it/s]
Power Factorization: 44%	220/500 [01:13<01:38, 2.84it/s]
Power Factorization: 44%	221/500 [01:13<01:36, 2.89it/s]
Power Factorization: 44%	222/500 [01:13<01:35, 2.91it/s]
Power Factorization: 45%	223/500 [01:14<01:31, 3.03it/s]
Power Factorization: 45%	224/500 [01:14<01:31, 3.02it/s]
Power Factorization: 45%	225/500 [01:14<01:27, 3.13it/s]
Power Factorization: 45%	226/500 [01:15<01:28, 3.08it/s]
Power Factorization: 45%	227/500 [01:15<01:33, 2.91it/s]
Power Factorization: 46%	228/500 [01:15<01:34, 2.88it/s]
Power Factorization: 46%	229/500 [01:16<01:37, 2.78it/s]
Power Factorization: 46%	230/500 [01:16<01:33, 2.88it/s]
Power Factorization: 46%	231/500 [01:16<01:31, 2.94it/s]
Power Factorization: 46%	232/500 [01:17<01:28, 3.01it/s]
Power Factorization: 47%	233/500 [01:17<01:27, 3.05it/s]
Power Factorization: 47%	234/500 [01:17<01:26, 3.08it/s]
Power Factorization: 47%	235/500 [01:18<01:26, 3.08it/s]
Power Factorization: 47%	236/500 [01:18<01:27, 3.01it/s]

Power Factorization: 47%	237/500 [01:18<01:29, 2.93it/s]
Power Factorization: 48%	238/500 [01:19<01:25, 3.07it/s]
Power Factorization: 48%	239/500 [01:19<01:27, 2.98it/s]
Power Factorization: 48%	240/500 [01:19<01:25, 3.04it/s]
Power Factorization: 48%	241/500 [01:20<01:24, 3.05it/s]
Power Factorization: 48%	242/500 [01:20<01:21, 3.16it/s]
Power Factorization: 49%	243/500 [01:20<01:20, 3.19it/s]
Power Factorization: 49%	244/500 [01:21<01:20, 3.18it/s]
Power Factorization: 49%	245/500 [01:21<01:21, 3.11it/s]
Power Factorization: 49%	246/500 [01:21<01:19, 3.21it/s]
Power Factorization: 49%	247/500 [01:22<01:22, 3.06it/s]
Power Factorization: 50%	248/500 [01:22<01:25, 2.95it/s]
Power Factorization: 50%	249/500 [01:22<01:25, 2.94it/s]
Power Factorization: 50%	250/500 [01:23<01:22, 3.04it/s]
Power Factorization: 50%	251/500 [01:23<01:24, 2.95it/s]
Power Factorization: 50%	252/500 [01:23<01:24, 2.94it/s]
Power Factorization: 51%	253/500 [01:24<01:22, 3.00it/s]
Power Factorization: 51%	254/500 [01:24<01:21, 3.03it/s]
Power Factorization: 51%	255/500 [01:24<01:17, 3.15it/s]
Power Factorization: 51%	256/500 [01:25<01:19, 3.05it/s]
Power Factorization: 51%	257/500 [01:25<01:17, 3.15it/s]
Power Factorization: 52%	258/500 [01:25<01:18, 3.07it/s]
Power Factorization: 52%	259/500 [01:26<01:17, 3.12it/s]
Power Factorization: 52%	260/500 [01:26<01:25, 2.82it/s]

Power Factorization: 52%	261/500 [01:26<01:25, 2.80it/s]
Power Factorization: 52%	262/500 [01:27<01:19, 3.00it/s]
Power Factorization: 53%	263/500 [01:27<01:16, 3.11it/s]
Power Factorization: 53%	264/500 [01:27<01:12, 3.25it/s]
Power Factorization: 53%	265/500 [01:28<01:14, 3.17it/s]
Power Factorization: 53%	266/500 [01:28<01:16, 3.07it/s]
Power Factorization: 53%	267/500 [01:28<01:26, 2.69it/s]
Power Factorization: 54%	268/500 [01:29<01:23, 2.77it/s]
Power Factorization: 54%	269/500 [01:29<01:21, 2.82it/s]
Power Factorization: 54%	270/500 [01:29<01:19, 2.89it/s]
Power Factorization: 54%	271/500 [01:30<01:17, 2.95it/s]
Power Factorization: 54%	272/500 [01:30<01:16, 3.00it/s]
Power Factorization: 55%	273/500 [01:30<01:17, 2.95it/s]
Power Factorization: 55%	274/500 [01:31<01:15, 2.99it/s]
Power Factorization: 55%	275/500 [01:31<01:13, 3.06it/s]
Power Factorization: 55%	276/500 [01:31<01:17, 2.88it/s]
Power Factorization: 55%	277/500 [01:32<01:15, 2.94it/s]
Power Factorization: 56%	278/500 [01:32<01:13, 3.02it/s]
Power Factorization: 56%	279/500 [01:32<01:14, 2.98it/s]
Power Factorization: 56%	280/500 [01:33<01:17, 2.84it/s]
Power Factorization: 56%	281/500 [01:33<01:15, 2.88it/s]
Power Factorization: 56%	282/500 [01:33<01:12, 3.00it/s]
Power Factorization: 57%	283/500 [01:34<01:12, 2.99it/s]
Power Factorization: 57%	284/500 [01:34<01:11, 3.03it/s]

Power Factorization: 57%	285/500 [01:34<01:11, 3.02it/s]
Power Factorization: 57%	286/500 [01:35<01:12, 2.97it/s]
Power Factorization: 57%	287/500 [01:35<01:06, 3.19it/s]
Power Factorization: 58%	288/500 [01:35<01:05, 3.25it/s]
Power Factorization: 58%	289/500 [01:36<01:05, 3.23it/s]
Power Factorization: 58%	290/500 [01:36<01:04, 3.24it/s]
Power Factorization: 58%	291/500 [01:36<01:04, 3.22it/s]
Power Factorization: 58%	292/500 [01:37<01:10, 2.95it/s]
Power Factorization: 59%	293/500 [01:37<01:09, 2.98it/s]
Power Factorization: 59%	294/500 [01:37<01:05, 3.12it/s]
Power Factorization: 59%	295/500 [01:38<01:04, 3.17it/s]
Power Factorization: 59%	296/500 [01:38<01:04, 3.15it/s]
Power Factorization: 59%	297/500 [01:38<01:03, 3.22it/s]
Power Factorization: 60%	298/500 [01:38<01:04, 3.13it/s]
Power Factorization: 60%	299/500 [01:39<01:02, 3.20it/s]
Power Factorization: 60%	300/500 [01:39<01:00, 3.30it/s]
Power Factorization: 60%	301/500 [01:39<01:02, 3.19it/s]
Power Factorization: 60%	302/500 [01:40<01:01, 3.19it/s]
Power Factorization: 61%	303/500 [01:40<00:59, 3.31it/s]
Power Factorization: 61%	304/500 [01:40<01:00, 3.24it/s]
Power Factorization: 61%	305/500 [01:41<00:59, 3.28it/s]
Power Factorization: 61%	306/500 [01:41<01:00, 3.20it/s]
Power Factorization: 61%	307/500 [01:41<01:01, 3.14it/s]
Power Factorization: 62%	308/500 [01:42<01:01, 3.14it/s]

Power Factorization: 62%	309/500 [01:42<01:00, 3.14it/s]
Power Factorization: 62%	310/500 [01:42<01:00, 3.13it/s]
Power Factorization: 62%	311/500 [01:43<00:58, 3.21it/s]
Power Factorization: 62%	312/500 [01:43<01:00, 3.10it/s]
Power Factorization: 63%	313/500 [01:43<01:02, 2.97it/s]
Power Factorization: 63%	314/500 [01:44<01:00, 3.07it/s]
Power Factorization: 63%	315/500 [01:44<00:57, 3.20it/s]
Power Factorization: 63%	316/500 [01:44<00:58, 3.14it/s]
Power Factorization: 63%	317/500 [01:45<01:00, 3.02it/s]
Power Factorization: 64%	318/500 [01:45<01:03, 2.86it/s]
Power Factorization: 64%	319/500 [01:45<01:01, 2.96it/s]
Power Factorization: 64%	320/500 [01:46<00:59, 3.02it/s]
Power Factorization: 64%	321/500 [01:46<00:58, 3.06it/s]
Power Factorization: 64%	322/500 [01:46<00:56, 3.14it/s]
Power Factorization: 65%	323/500 [01:46<00:55, 3.19it/s]
Power Factorization: 65%	324/500 [01:47<00:54, 3.23it/s]
Power Factorization: 65%	325/500 [01:47<00:54, 3.20it/s]
Power Factorization: 65%	326/500 [01:47<00:53, 3.25it/s]
Power Factorization: 65%	327/500 [01:48<00:52, 3.31it/s]
Power Factorization: 66%	328/500 [01:48<00:54, 3.17it/s]
Power Factorization: 66%	329/500 [01:48<00:53, 3.20it/s]
Power Factorization: 66%	330/500 [01:49<00:53, 3.19it/s]
Power Factorization: 66%	331/500 [01:49<00:51, 3.26it/s]
Power Factorization: 66%	332/500 [01:49<00:50, 3.31it/s]

Power Factorization: 67%	333/500 [01:50<00:51,	3.22it/s]
Power Factorization: 67%	334/500 [01:50<00:52,	3.14it/s]
Power Factorization: 67%	335/500 [01:50<00:52,	3.12it/s]
Power Factorization: 67%	336/500 [01:51<00:53,	3.08it/s]
Power Factorization: 67%	337/500 [01:51<00:51,	3.15it/s]
Power Factorization: 68%	338/500 [01:51<00:51,	3.16it/s]
Power Factorization: 68%	339/500 [01:51<00:50,	3.21it/s]
Power Factorization: 68%	340/500 [01:52<00:50,	3.19it/s]
Power Factorization: 68%	341/500 [01:52<00:47,	3.32it/s]
Power Factorization: 68%	342/500 [01:52<00:48,	3.23it/s]
Power Factorization: 69%	343/500 [01:53<00:47,	3.30it/s]
Power Factorization: 69%	344/500 [01:53<00:49,	3.13it/s]
Power Factorization: 69%	345/500 [01:53<00:51,	3.00it/s]
Power Factorization: 69%	346/500 [01:54<00:49,	3.10it/s]
Power Factorization: 69%	347/500 [01:54<00:49,	3.08it/s]
Power Factorization: 70%	348/500 [01:54<00:48,	3.16it/s]
Power Factorization: 70%	349/500 [01:55<00:49,	3.03it/s]
Power Factorization: 70%	350/500 [01:55<00:50,	2.96it/s]
Power Factorization: 70%	351/500 [01:55<00:48,	3.06it/s]
Power Factorization: 70%	352/500 [01:56<00:50,	2.95it/s]
Power Factorization: 71%	353/500 [01:56<00:48,	3.05it/s]
Power Factorization: 71%	354/500 [01:56<00:48,	3.02it/s]
Power Factorization: 71%	355/500 [01:57<00:46,	3.12it/s]
Power Factorization: 71%	356/500 [01:57<00:45,	3.18it/s]

Power Factorization: 71%	357/500 [01:57<00:45, 3.14it/s]
Power Factorization: 72%	358/500 [01:58<00:44, 3.19it/s]
Power Factorization: 72%	359/500 [01:58<00:43, 3.22it/s]
Power Factorization: 72%	360/500 [01:58<00:42, 3.29it/s]
Power Factorization: 72%	361/500 [01:58<00:42, 3.31it/s]
Power Factorization: 72%	362/500 [01:59<00:44, 3.13it/s]
Power Factorization: 73%	363/500 [01:59<00:45, 3.03it/s]
Power Factorization: 73%	364/500 [01:59<00:43, 3.14it/s]
Power Factorization: 73%	365/500 [02:00<00:43, 3.13it/s]
Power Factorization: 73%	366/500 [02:00<00:43, 3.07it/s]
Power Factorization: 73%	367/500 [02:00<00:42, 3.12it/s]
Power Factorization: 74%	368/500 [02:01<00:42, 3.08it/s]
Power Factorization: 74%	369/500 [02:01<00:41, 3.13it/s]
Power Factorization: 74%	370/500 [02:01<00:40, 3.17it/s]
Power Factorization: 74%	371/500 [02:02<00:39, 3.27it/s]
Power Factorization: 74%	372/500 [02:02<00:39, 3.24it/s]
Power Factorization: 75%	373/500 [02:02<00:38, 3.28it/s]
Power Factorization: 75%	374/500 [02:03<00:38, 3.23it/s]
Power Factorization: 75%	375/500 [02:03<00:38, 3.22it/s]
Power Factorization: 75%	376/500 [02:03<00:38, 3.20it/s]
Power Factorization: 75%	377/500 [02:04<00:37, 3.24it/s]
Power Factorization: 76%	378/500 [02:04<00:38, 3.17it/s]
Power Factorization: 76%	379/500 [02:04<00:36, 3.30it/s]
Power Factorization: 76%	380/500 [02:04<00:36, 3.28it/s]

Power Factorization: 76%	381/500 [02:05<00:39, 2.98it/s]
Power Factorization: 76%	382/500 [02:05<00:38, 3.06it/s]
Power Factorization: 77%	383/500 [02:05<00:38, 3.07it/s]
Power Factorization: 77%	384/500 [02:06<00:38, 3.02it/s]
Power Factorization: 77%	385/500 [02:06<00:38, 3.01it/s]
Power Factorization: 77%	386/500 [02:07<00:40, 2.79it/s]
Power Factorization: 77%	387/500 [02:07<00:39, 2.87it/s]
Power Factorization: 78%	388/500 [02:07<00:37, 3.01it/s]
Power Factorization: 78%	389/500 [02:07<00:34, 3.18it/s]
Power Factorization: 78%	390/500 [02:08<00:36, 3.04it/s]
Power Factorization: 78%	391/500 [02:08<00:34, 3.12it/s]
Power Factorization: 78%	392/500 [02:08<00:34, 3.11it/s]
Power Factorization: 79%	393/500 [02:09<00:34, 3.10it/s]
Power Factorization: 79%	394/500 [02:09<00:34, 3.05it/s]
Power Factorization: 79%	395/500 [02:09<00:33, 3.12it/s]
Power Factorization: 79%	396/500 [02:10<00:33, 3.08it/s]
Power Factorization: 79%	397/500 [02:10<00:33, 3.09it/s]
Power Factorization: 80%	398/500 [02:10<00:32, 3.13it/s]
Power Factorization: 80%	399/500 [02:11<00:32, 3.13it/s]
Power Factorization: 80%	400/500 [02:11<00:31, 3.19it/s]
Power Factorization: 80%	401/500 [02:11<00:31, 3.15it/s]
Power Factorization: 80%	402/500 [02:12<00:32, 3.04it/s]
Power Factorization: 81%	403/500 [02:12<00:31, 3.04it/s]
Power Factorization: 81%	404/500 [02:12<00:32, 2.94it/s]

Power Factorization: 81%	405/500 [02:13<00:32,	2.93it/s]
Power Factorization: 81%	406/500 [02:13<00:32,	2.90it/s]
Power Factorization: 81%	407/500 [02:13<00:31,	2.99it/s]
Power Factorization: 82%	408/500 [02:14<00:29,	3.08it/s]
Power Factorization: 82%	409/500 [02:14<00:29,	3.08it/s]
Power Factorization: 82%	410/500 [02:14<00:28,	3.11it/s]
Power Factorization: 82%	411/500 [02:15<00:27,	3.19it/s]
Power Factorization: 82%	412/500 [02:15<00:28,	3.12it/s]
Power Factorization: 83%	413/500 [02:15<00:28,	3.01it/s]
Power Factorization: 83%	414/500 [02:16<00:29,	2.87it/s]
Power Factorization: 83%	415/500 [02:16<00:28,	2.98it/s]
Power Factorization: 83%	416/500 [02:16<00:27,	3.04it/s]
Power Factorization: 83%	417/500 [02:17<00:27,	2.99it/s]
Power Factorization: 84%	418/500 [02:17<00:26,	3.08it/s]
Power Factorization: 84%	419/500 [02:17<00:27,	2.90it/s]
Power Factorization: 84%	420/500 [02:18<00:27,	2.87it/s]
Power Factorization: 84%	421/500 [02:18<00:27,	2.90it/s]
Power Factorization: 84%	422/500 [02:18<00:26,	2.93it/s]
Power Factorization: 85%	423/500 [02:19<00:25,	2.98it/s]
Power Factorization: 85%	424/500 [02:19<00:24,	3.06it/s]
Power Factorization: 85%	425/500 [02:19<00:24,	3.12it/s]
Power Factorization: 85%	426/500 [02:20<00:23,	3.16it/s]
Power Factorization: 85%	427/500 [02:20<00:22,	3.18it/s]
Power Factorization: 86%	428/500 [02:20<00:23,	3.06it/s]

Power Factorization: 86%	429/500 [02:21<00:22,	3.11it/s]
Power Factorization: 86%	430/500 [02:21<00:21,	3.21it/s]
Power Factorization: 86%	431/500 [02:21<00:21,	3.20it/s]
Power Factorization: 86%	432/500 [02:22<00:21,	3.18it/s]
Power Factorization: 87%	433/500 [02:22<00:21,	3.13it/s]
Power Factorization: 87%	434/500 [02:22<00:22,	2.99it/s]
Power Factorization: 87%	435/500 [02:23<00:22,	2.92it/s]
Power Factorization: 87%	436/500 [02:23<00:21,	3.02it/s]
Power Factorization: 87%	437/500 [02:23<00:20,	3.13it/s]
Power Factorization: 88%	438/500 [02:23<00:19,	3.14it/s]
Power Factorization: 88%	439/500 [02:24<00:19,	3.18it/s]
Power Factorization: 88%	440/500 [02:24<00:18,	3.24it/s]
Power Factorization: 88%	441/500 [02:24<00:19,	3.09it/s]
Power Factorization: 88%	442/500 [02:25<00:18,	3.13it/s]
Power Factorization: 89%	443/500 [02:25<00:18,	3.16it/s]
Power Factorization: 89%	444/500 [02:25<00:17,	3.20it/s]
Power Factorization: 89%	445/500 [02:26<00:18,	3.04it/s]
Power Factorization: 89%	446/500 [02:26<00:17,	3.14it/s]
Power Factorization: 89%	447/500 [02:26<00:16,	3.18it/s]
Power Factorization: 90%	448/500 [02:27<00:16,	3.21it/s]
Power Factorization: 90%	449/500 [02:27<00:16,	3.13it/s]
Power Factorization: 90%	450/500 [02:27<00:15,	3.17it/s]
Power Factorization: 90%	451/500 [02:28<00:15,	3.17it/s]
Power Factorization: 90%	452/500 [02:28<00:15,	3.05it/s]

Power Factorization: 91%	453/500 [02:28<00:16,	2.88it/s]
Power Factorization: 91%	454/500 [02:29<00:15,	2.90it/s]
Power Factorization: 91%	455/500 [02:29<00:14,	3.02it/s]
Power Factorization: 91%	456/500 [02:29<00:14,	2.99it/s]
Power Factorization: 91%	457/500 [02:30<00:13,	3.11it/s]
Power Factorization: 92%	458/500 [02:30<00:13,	3.18it/s]
Power Factorization: 92%	459/500 [02:30<00:12,	3.24it/s]
Power Factorization: 92%	460/500 [02:31<00:12,	3.21it/s]
Power Factorization: 92%	461/500 [02:31<00:12,	3.13it/s]
Power Factorization: 92%	462/500 [02:31<00:12,	3.13it/s]
Power Factorization: 93%	463/500 [02:32<00:12,	2.93it/s]
Power Factorization: 93%	464/500 [02:32<00:12,	2.82it/s]
Power Factorization: 93%	465/500 [02:32<00:11,	3.05it/s]
Power Factorization: 93%	466/500 [02:33<00:11,	2.94it/s]
Power Factorization: 93%	467/500 [02:33<00:11,	2.96it/s]
Power Factorization: 94%	468/500 [02:33<00:10,	2.96it/s]
Power Factorization: 94%	469/500 [02:34<00:10,	2.84it/s]
Power Factorization: 94%	470/500 [02:34<00:10,	2.87it/s]
Power Factorization: 94%	471/500 [02:34<00:09,	2.93it/s]
Power Factorization: 94%	472/500 [02:35<00:09,	3.04it/s]
Power Factorization: 95%	473/500 [02:35<00:09,	2.98it/s]
Power Factorization: 95%	474/500 [02:35<00:08,	3.09it/s]
Power Factorization: 95%	475/500 [02:36<00:08,	3.02it/s]
Power Factorization: 95%	476/500 [02:36<00:08,	2.97it/s]

Power Factorization: 95%	477/500 [02:36<00:07, 2.96it/s]
Power Factorization: 96%	478/500 [02:37<00:07, 2.96it/s]
Power Factorization: 96%	479/500 [02:37<00:07, 2.99it/s]
Power Factorization: 96%	480/500 [02:37<00:06, 3.07it/s]
Power Factorization: 96%	481/500 [02:38<00:06, 3.09it/s]
Power Factorization: 96%	482/500 [02:38<00:05, 3.02it/s]
Power Factorization: 97%	483/500 [02:38<00:05, 2.99it/s]
Power Factorization: 97%	484/500 [02:39<00:05, 3.08it/s]
Power Factorization: 97%	485/500 [02:39<00:04, 3.15it/s]
Power Factorization: 97%	486/500 [02:39<00:04, 3.12it/s]
Power Factorization: 97%	487/500 [02:40<00:04, 3.23it/s]
Power Factorization: 98%	488/500 [02:40<00:03, 3.34it/s]
Power Factorization: 98%	489/500 [02:40<00:03, 3.44it/s]
Power Factorization: 98%	490/500 [02:40<00:03, 3.16it/s]
Power Factorization: 98%	491/500 [02:41<00:02, 3.20it/s]
Power Factorization: 98%	492/500 [02:41<00:02, 3.15it/s]
Power Factorization: 99%	493/500 [02:41<00:02, 3.08it/s]
Power Factorization: 99%	494/500 [02:42<00:01, 3.05it/s]
Power Factorization: 99%	495/500 [02:42<00:01, 3.01it/s]
Power Factorization: 99%	496/500 [02:42<00:01, 3.04it/s]
Power Factorization: 99%	497/500 [02:43<00:01, 2.91it/s]
Power Factorization: 100%	498/500 [02:43<00:00, 2.88it/s]
Power Factorization: 100%	499/500 [02:43<00:00, 2.85it/s]
Power Factorization: 100%	500/500 [02:44<00:00, 3.04it/s]

Cross Validation:	80%		4/5	[11:34<02:52, 172.32s/it]
Power Factorization:	0%		0/500	[00:00<?, ?it/s]
Power Factorization:	0%		1/500	[00:00<02:46, 3.00it/s]
Power Factorization:	0%		2/500	[00:00<02:29, 3.33it/s]
Power Factorization:	1%		3/500	[00:00<02:31, 3.28it/s]
Power Factorization:	1%		4/500	[00:01<02:35, 3.19it/s]
Power Factorization:	1%		5/500	[00:01<02:43, 3.02it/s]
Power Factorization:	1%		6/500	[00:01<02:39, 3.09it/s]
Power Factorization:	1%		7/500	[00:02<02:34, 3.19it/s]
Power Factorization:	2%		8/500	[00:02<02:35, 3.16it/s]
Power Factorization:	2%		9/500	[00:02<02:34, 3.18it/s]
Power Factorization:	2%		10/500	[00:03<02:37, 3.11it/s]
Power Factorization:	2%		11/500	[00:03<02:36, 3.13it/s]
Power Factorization:	2%		12/500	[00:03<02:32, 3.21it/s]
Power Factorization:	3%		13/500	[00:04<02:32, 3.20it/s]
Power Factorization:	3%		14/500	[00:04<02:33, 3.17it/s]
Power Factorization:	3%		15/500	[00:04<02:33, 3.16it/s]
Power Factorization:	3%		16/500	[00:05<02:32, 3.17it/s]
Power Factorization:	3%		17/500	[00:05<02:30, 3.21it/s]
Power Factorization:	4%		18/500	[00:05<02:23, 3.36it/s]
Power Factorization:	4%		19/500	[00:05<02:25, 3.31it/s]
Power Factorization:	4%		20/500	[00:06<02:27, 3.24it/s]
Power Factorization:	4%		21/500	[00:06<02:31, 3.16it/s]
Power Factorization:	4%		22/500	[00:06<02:34, 3.09it/s]

Power Factorization:	5%	23/500	[00:07<02:30,	3.16it/s]
Power Factorization:	5%	24/500	[00:07<02:36,	3.04it/s]
Power Factorization:	5%	25/500	[00:07<02:38,	3.00it/s]
Power Factorization:	5%	26/500	[00:08<02:40,	2.95it/s]
Power Factorization:	5%	27/500	[00:08<02:40,	2.95it/s]
Power Factorization:	6%	28/500	[00:08<02:40,	2.95it/s]
Power Factorization:	6%	29/500	[00:09<02:34,	3.04it/s]
Power Factorization:	6%	30/500	[00:09<02:30,	3.12it/s]
Power Factorization:	6%	31/500	[00:09<02:26,	3.19it/s]
Power Factorization:	6%	32/500	[00:10<02:26,	3.19it/s]
Power Factorization:	7%	33/500	[00:10<02:26,	3.19it/s]
Power Factorization:	7%	34/500	[00:10<02:28,	3.15it/s]
Power Factorization:	7%	35/500	[00:11<02:30,	3.10it/s]
Power Factorization:	7%	36/500	[00:11<02:30,	3.09it/s]
Power Factorization:	7%	37/500	[00:11<02:25,	3.17it/s]
Power Factorization:	8%	38/500	[00:12<02:24,	3.20it/s]
Power Factorization:	8%	39/500	[00:12<02:22,	3.23it/s]
Power Factorization:	8%	40/500	[00:12<02:28,	3.11it/s]
Power Factorization:	8%	41/500	[00:13<02:27,	3.11it/s]
Power Factorization:	8%	42/500	[00:13<02:22,	3.21it/s]
Power Factorization:	9%	43/500	[00:13<02:20,	3.24it/s]
Power Factorization:	9%	44/500	[00:13<02:22,	3.20it/s]
Power Factorization:	9%	45/500	[00:14<02:21,	3.22it/s]
Power Factorization:	9%	46/500	[00:14<02:22,	3.19it/s]

Power Factorization:	9%	47/500 [00:14<02:20, 3.21it/s]
Power Factorization:	10%	48/500 [00:15<02:18, 3.27it/s]
Power Factorization:	10%	49/500 [00:15<02:20, 3.21it/s]
Power Factorization:	10%	50/500 [00:15<02:25, 3.08it/s]
Power Factorization:	10%	51/500 [00:16<02:29, 3.01it/s]
Power Factorization:	10%	52/500 [00:16<02:25, 3.07it/s]
Power Factorization:	11%	53/500 [00:16<02:25, 3.07it/s]
Power Factorization:	11%	54/500 [00:17<02:24, 3.09it/s]
Power Factorization:	11%	55/500 [00:17<02:22, 3.13it/s]
Power Factorization:	11%	56/500 [00:17<02:24, 3.07it/s]
Power Factorization:	11%	57/500 [00:18<02:23, 3.08it/s]
Power Factorization:	12%	58/500 [00:18<02:19, 3.17it/s]
Power Factorization:	12%	59/500 [00:18<02:16, 3.24it/s]
Power Factorization:	12%	60/500 [00:19<02:21, 3.11it/s]
Power Factorization:	12%	61/500 [00:19<02:17, 3.18it/s]
Power Factorization:	12%	62/500 [00:19<02:17, 3.19it/s]
Power Factorization:	13%	63/500 [00:20<02:16, 3.19it/s]
Power Factorization:	13%	64/500 [00:20<02:22, 3.07it/s]
Power Factorization:	13%	65/500 [00:20<02:28, 2.93it/s]
Power Factorization:	13%	66/500 [00:21<02:28, 2.93it/s]
Power Factorization:	13%	67/500 [00:21<02:25, 2.97it/s]
Power Factorization:	14%	68/500 [00:21<02:23, 3.02it/s]
Power Factorization:	14%	69/500 [00:22<02:27, 2.91it/s]
Power Factorization:	14%	70/500 [00:22<02:23, 2.99it/s]

Power Factorization: 14%	71/500 [00:22<02:18,	3.09it/s]
Power Factorization: 14%	72/500 [00:23<02:14,	3.19it/s]
Power Factorization: 15%	73/500 [00:23<02:12,	3.23it/s]
Power Factorization: 15%	74/500 [00:23<02:14,	3.18it/s]
Power Factorization: 15%	75/500 [00:23<02:10,	3.25it/s]
Power Factorization: 15%	76/500 [00:24<02:07,	3.33it/s]
Power Factorization: 15%	77/500 [00:24<02:12,	3.20it/s]
Power Factorization: 16%	78/500 [00:24<02:23,	2.95it/s]
Power Factorization: 16%	79/500 [00:25<02:18,	3.04it/s]
Power Factorization: 16%	80/500 [00:25<02:17,	3.04it/s]
Power Factorization: 16%	81/500 [00:25<02:15,	3.10it/s]
Power Factorization: 16%	82/500 [00:26<02:22,	2.94it/s]
Power Factorization: 17%	83/500 [00:26<02:21,	2.95it/s]
Power Factorization: 17%	84/500 [00:26<02:18,	3.00it/s]
Power Factorization: 17%	85/500 [00:27<02:15,	3.06it/s]
Power Factorization: 17%	86/500 [00:27<02:11,	3.16it/s]
Power Factorization: 17%	87/500 [00:27<02:11,	3.14it/s]
Power Factorization: 18%	88/500 [00:28<02:07,	3.22it/s]
Power Factorization: 18%	89/500 [00:28<02:13,	3.08it/s]
Power Factorization: 18%	90/500 [00:28<02:16,	3.00it/s]
Power Factorization: 18%	91/500 [00:29<02:16,	3.00it/s]
Power Factorization: 18%	92/500 [00:29<02:13,	3.06it/s]
Power Factorization: 19%	93/500 [00:29<02:09,	3.15it/s]
Power Factorization: 19%	94/500 [00:30<02:10,	3.12it/s]

Power Factorization: 19%	95/500 [00:30<02:18, 2.93it/s]
Power Factorization: 19%	96/500 [00:30<02:20, 2.87it/s]
Power Factorization: 19%	97/500 [00:31<02:16, 2.95it/s]
Power Factorization: 20%	98/500 [00:31<02:23, 2.81it/s]
Power Factorization: 20%	99/500 [00:31<02:27, 2.72it/s]
Power Factorization: 20%	100/500 [00:32<02:21, 2.83it/s]
Power Factorization: 20%	101/500 [00:32<02:26, 2.73it/s]
Power Factorization: 20%	102/500 [00:33<02:25, 2.73it/s]
Power Factorization: 21%	103/500 [00:33<02:17, 2.89it/s]
Power Factorization: 21%	104/500 [00:33<02:14, 2.94it/s]
Power Factorization: 21%	105/500 [00:33<02:05, 3.15it/s]
Power Factorization: 21%	106/500 [00:34<02:03, 3.19it/s]
Power Factorization: 21%	107/500 [00:34<02:06, 3.11it/s]
Power Factorization: 22%	108/500 [00:34<02:05, 3.13it/s]
Power Factorization: 22%	109/500 [00:35<02:01, 3.21it/s]
Power Factorization: 22%	110/500 [00:35<02:03, 3.15it/s]
Power Factorization: 22%	111/500 [00:35<02:06, 3.08it/s]
Power Factorization: 22%	112/500 [00:36<02:03, 3.14it/s]
Power Factorization: 23%	113/500 [00:36<02:00, 3.20it/s]
Power Factorization: 23%	114/500 [00:36<02:02, 3.15it/s]
Power Factorization: 23%	115/500 [00:37<02:05, 3.06it/s]
Power Factorization: 23%	116/500 [00:37<02:04, 3.09it/s]
Power Factorization: 23%	117/500 [00:37<02:03, 3.09it/s]
Power Factorization: 24%	118/500 [00:38<02:03, 3.09it/s]

Power Factorization: 24%	119/500 [00:38<02:00, 3.17it/s]
Power Factorization: 24%	120/500 [00:38<02:01, 3.12it/s]
Power Factorization: 24%	121/500 [00:39<01:59, 3.18it/s]
Power Factorization: 24%	122/500 [00:39<01:57, 3.21it/s]
Power Factorization: 25%	123/500 [00:39<01:57, 3.22it/s]
Power Factorization: 25%	124/500 [00:39<01:56, 3.22it/s]
Power Factorization: 25%	125/500 [00:40<01:58, 3.16it/s]
Power Factorization: 25%	126/500 [00:40<02:00, 3.12it/s]
Power Factorization: 25%	127/500 [00:40<01:58, 3.14it/s]
Power Factorization: 26%	128/500 [00:41<01:59, 3.10it/s]
Power Factorization: 26%	129/500 [00:41<02:05, 2.95it/s]
Power Factorization: 26%	130/500 [00:41<02:02, 3.02it/s]
Power Factorization: 26%	131/500 [00:42<02:00, 3.05it/s]
Power Factorization: 26%	132/500 [00:42<01:58, 3.09it/s]
Power Factorization: 27%	133/500 [00:42<01:59, 3.07it/s]
Power Factorization: 27%	134/500 [00:43<02:02, 2.99it/s]
Power Factorization: 27%	135/500 [00:43<01:59, 3.06it/s]
Power Factorization: 27%	136/500 [00:43<01:55, 3.16it/s]
Power Factorization: 27%	137/500 [00:44<01:50, 3.29it/s]
Power Factorization: 28%	138/500 [00:44<01:49, 3.31it/s]
Power Factorization: 28%	139/500 [00:44<01:57, 3.06it/s]
Power Factorization: 28%	140/500 [00:45<01:57, 3.06it/s]
Power Factorization: 28%	141/500 [00:45<02:08, 2.78it/s]
Power Factorization: 28%	142/500 [00:45<02:04, 2.88it/s]

Power Factorization: 29%	143/500 [00:46<02:02, 2.91it/s]
Power Factorization: 29%	144/500 [00:46<02:07, 2.80it/s]
Power Factorization: 29%	145/500 [00:47<02:05, 2.82it/s]
Power Factorization: 29%	146/500 [00:47<02:05, 2.83it/s]
Power Factorization: 29%	147/500 [00:47<02:09, 2.73it/s]
Power Factorization: 30%	148/500 [00:48<02:05, 2.80it/s]
Power Factorization: 30%	149/500 [00:48<02:05, 2.80it/s]
Power Factorization: 30%	150/500 [00:48<02:01, 2.88it/s]
Power Factorization: 30%	151/500 [00:49<02:00, 2.90it/s]
Power Factorization: 30%	152/500 [00:49<02:01, 2.87it/s]
Power Factorization: 31%	153/500 [00:49<01:59, 2.91it/s]
Power Factorization: 31%	154/500 [00:50<01:52, 3.06it/s]
Power Factorization: 31%	155/500 [00:50<01:53, 3.03it/s]
Power Factorization: 31%	156/500 [00:50<01:59, 2.88it/s]
Power Factorization: 31%	157/500 [00:51<02:00, 2.85it/s]
Power Factorization: 32%	158/500 [00:51<01:54, 2.98it/s]
Power Factorization: 32%	159/500 [00:51<01:50, 3.09it/s]
Power Factorization: 32%	160/500 [00:52<01:50, 3.08it/s]
Power Factorization: 32%	161/500 [00:52<01:47, 3.15it/s]
Power Factorization: 32%	162/500 [00:52<01:48, 3.12it/s]
Power Factorization: 33%	163/500 [00:53<01:50, 3.05it/s]
Power Factorization: 33%	164/500 [00:53<01:48, 3.09it/s]
Power Factorization: 33%	165/500 [00:53<01:46, 3.14it/s]
Power Factorization: 33%	166/500 [00:53<01:44, 3.19it/s]

Power Factorization: 33%	167/500 [00:54<01:48,	3.06it/s]
Power Factorization: 34%	168/500 [00:54<01:47,	3.09it/s]
Power Factorization: 34%	169/500 [00:54<01:44,	3.16it/s]
Power Factorization: 34%	170/500 [00:55<01:41,	3.24it/s]
Power Factorization: 34%	171/500 [00:55<01:40,	3.26it/s]
Power Factorization: 34%	172/500 [00:55<01:39,	3.31it/s]
Power Factorization: 35%	173/500 [00:56<01:38,	3.33it/s]
Power Factorization: 35%	174/500 [00:56<01:36,	3.36it/s]
Power Factorization: 35%	175/500 [00:56<01:43,	3.15it/s]
Power Factorization: 35%	176/500 [00:57<01:44,	3.11it/s]
Power Factorization: 35%	177/500 [00:57<01:46,	3.03it/s]
Power Factorization: 36%	178/500 [00:57<01:58,	2.71it/s]
Power Factorization: 36%	179/500 [00:58<01:59,	2.70it/s]
Power Factorization: 36%	180/500 [00:58<01:53,	2.81it/s]
Power Factorization: 36%	181/500 [00:58<01:52,	2.84it/s]
Power Factorization: 36%	182/500 [00:59<01:48,	2.94it/s]
Power Factorization: 37%	183/500 [00:59<01:49,	2.89it/s]
Power Factorization: 37%	184/500 [00:59<01:45,	2.98it/s]
Power Factorization: 37%	185/500 [01:00<01:42,	3.09it/s]
Power Factorization: 37%	186/500 [01:00<01:39,	3.16it/s]
Power Factorization: 37%	187/500 [01:00<01:40,	3.12it/s]
Power Factorization: 38%	188/500 [01:01<01:40,	3.10it/s]
Power Factorization: 38%	189/500 [01:01<01:38,	3.16it/s]
Power Factorization: 38%	190/500 [01:01<01:40,	3.08it/s]

Power Factorization: 38%	191/500 [01:02<01:43,	2.99it/s]
Power Factorization: 38%	192/500 [01:02<01:41,	3.04it/s]
Power Factorization: 39%	193/500 [01:02<01:38,	3.13it/s]
Power Factorization: 39%	194/500 [01:03<01:41,	3.01it/s]
Power Factorization: 39%	195/500 [01:03<01:44,	2.92it/s]
Power Factorization: 39%	196/500 [01:03<01:44,	2.90it/s]
Power Factorization: 39%	197/500 [01:04<01:45,	2.88it/s]
Power Factorization: 40%	198/500 [01:04<01:43,	2.92it/s]
Power Factorization: 40%	199/500 [01:04<01:41,	2.95it/s]
Power Factorization: 40%	200/500 [01:05<01:40,	2.98it/s]
Power Factorization: 40%	201/500 [01:05<01:37,	3.07it/s]
Power Factorization: 40%	202/500 [01:05<01:38,	3.04it/s]
Power Factorization: 41%	203/500 [01:06<01:35,	3.12it/s]
Power Factorization: 41%	204/500 [01:06<01:34,	3.12it/s]
Power Factorization: 41%	205/500 [01:06<01:33,	3.14it/s]
Power Factorization: 41%	206/500 [01:07<01:31,	3.20it/s]
Power Factorization: 41%	207/500 [01:07<01:33,	3.14it/s]
Power Factorization: 42%	208/500 [01:07<01:32,	3.16it/s]
Power Factorization: 42%	209/500 [01:08<01:33,	3.11it/s]
Power Factorization: 42%	210/500 [01:08<01:37,	2.97it/s]
Power Factorization: 42%	211/500 [01:08<01:41,	2.84it/s]
Power Factorization: 42%	212/500 [01:09<01:37,	2.96it/s]
Power Factorization: 43%	213/500 [01:09<01:33,	3.08it/s]
Power Factorization: 43%	214/500 [01:09<01:31,	3.11it/s]

Power Factorization: 43%	215/500 [01:10<01:31, 3.12it/s]
Power Factorization: 43%	216/500 [01:10<01:29, 3.16it/s]
Power Factorization: 43%	217/500 [01:10<01:28, 3.20it/s]
Power Factorization: 44%	218/500 [01:11<01:27, 3.22it/s]
Power Factorization: 44%	219/500 [01:11<01:29, 3.15it/s]
Power Factorization: 44%	220/500 [01:11<01:33, 2.99it/s]
Power Factorization: 44%	221/500 [01:12<01:37, 2.87it/s]
Power Factorization: 44%	222/500 [01:12<01:37, 2.86it/s]
Power Factorization: 45%	223/500 [01:12<01:39, 2.79it/s]
Power Factorization: 45%	224/500 [01:13<01:34, 2.94it/s]
Power Factorization: 45%	225/500 [01:13<01:33, 2.93it/s]
Power Factorization: 45%	226/500 [01:13<01:31, 3.01it/s]
Power Factorization: 45%	227/500 [01:14<01:32, 2.96it/s]
Power Factorization: 46%	228/500 [01:14<01:34, 2.89it/s]
Power Factorization: 46%	229/500 [01:14<01:34, 2.87it/s]
Power Factorization: 46%	230/500 [01:15<01:30, 2.98it/s]
Power Factorization: 46%	231/500 [01:15<01:27, 3.07it/s]
Power Factorization: 46%	232/500 [01:15<01:27, 3.08it/s]
Power Factorization: 47%	233/500 [01:16<01:27, 3.07it/s]
Power Factorization: 47%	234/500 [01:16<01:30, 2.94it/s]
Power Factorization: 47%	235/500 [01:16<01:30, 2.91it/s]
Power Factorization: 47%	236/500 [01:17<01:28, 2.97it/s]
Power Factorization: 47%	237/500 [01:17<01:26, 3.05it/s]
Power Factorization: 48%	238/500 [01:17<01:23, 3.15it/s]

Power Factorization: 48%	239/500 [01:18<01:26, 3.03it/s]
Power Factorization: 48%	240/500 [01:18<01:25, 3.05it/s]
Power Factorization: 48%	241/500 [01:18<01:25, 3.04it/s]
Power Factorization: 48%	242/500 [01:19<01:23, 3.08it/s]
Power Factorization: 49%	243/500 [01:19<01:21, 3.16it/s]
Power Factorization: 49%	244/500 [01:19<01:24, 3.01it/s]
Power Factorization: 49%	245/500 [01:20<01:27, 2.93it/s]
Power Factorization: 49%	246/500 [01:20<01:29, 2.84it/s]
Power Factorization: 49%	247/500 [01:20<01:31, 2.78it/s]
Power Factorization: 50%	248/500 [01:21<01:30, 2.78it/s]
Power Factorization: 50%	249/500 [01:21<01:26, 2.90it/s]
Power Factorization: 50%	250/500 [01:21<01:30, 2.76it/s]
Power Factorization: 50%	251/500 [01:22<01:32, 2.70it/s]
Power Factorization: 50%	252/500 [01:22<01:27, 2.85it/s]
Power Factorization: 51%	253/500 [01:22<01:27, 2.84it/s]
Power Factorization: 51%	254/500 [01:23<01:22, 2.98it/s]
Power Factorization: 51%	255/500 [01:23<01:21, 2.99it/s]
Power Factorization: 51%	256/500 [01:23<01:21, 3.01it/s]
Power Factorization: 51%	257/500 [01:24<01:18, 3.09it/s]
Power Factorization: 52%	258/500 [01:24<01:21, 2.97it/s]
Power Factorization: 52%	259/500 [01:24<01:22, 2.93it/s]
Power Factorization: 52%	260/500 [01:25<01:20, 2.98it/s]
Power Factorization: 52%	261/500 [01:25<01:19, 3.00it/s]
Power Factorization: 52%	262/500 [01:26<01:26, 2.77it/s]

Power Factorization: 53%	263/500 [01:26<01:27, 2.72it/s]
Power Factorization: 53%	264/500 [01:26<01:25, 2.76it/s]
Power Factorization: 53%	265/500 [01:27<01:22, 2.84it/s]
Power Factorization: 53%	266/500 [01:27<01:21, 2.88it/s]
Power Factorization: 53%	267/500 [01:27<01:18, 2.96it/s]
Power Factorization: 54%	268/500 [01:28<01:17, 3.01it/s]
Power Factorization: 54%	269/500 [01:28<01:15, 3.04it/s]
Power Factorization: 54%	270/500 [01:28<01:18, 2.92it/s]
Power Factorization: 54%	271/500 [01:29<01:19, 2.88it/s]
Power Factorization: 54%	272/500 [01:29<01:21, 2.79it/s]
Power Factorization: 55%	273/500 [01:29<01:22, 2.74it/s]
Power Factorization: 55%	274/500 [01:30<01:23, 2.71it/s]
Power Factorization: 55%	275/500 [01:30<01:19, 2.81it/s]
Power Factorization: 55%	276/500 [01:30<01:16, 2.94it/s]
Power Factorization: 55%	277/500 [01:31<01:17, 2.89it/s]
Power Factorization: 56%	278/500 [01:31<01:16, 2.88it/s]
Power Factorization: 56%	279/500 [01:31<01:16, 2.89it/s]
Power Factorization: 56%	280/500 [01:32<01:16, 2.89it/s]
Power Factorization: 56%	281/500 [01:32<01:14, 2.92it/s]
Power Factorization: 56%	282/500 [01:32<01:11, 3.04it/s]
Power Factorization: 57%	283/500 [01:33<01:08, 3.17it/s]
Power Factorization: 57%	284/500 [01:33<01:07, 3.21it/s]
Power Factorization: 57%	285/500 [01:33<01:11, 3.02it/s]
Power Factorization: 57%	286/500 [01:34<01:13, 2.89it/s]

Power Factorization: 57%	287/500 [01:34<01:14, 2.87it/s]
Power Factorization: 58%	288/500 [01:34<01:11, 2.97it/s]
Power Factorization: 58%	289/500 [01:35<01:11, 2.93it/s]
Power Factorization: 58%	290/500 [01:35<01:12, 2.89it/s]
Power Factorization: 58%	291/500 [01:36<01:13, 2.85it/s]
Power Factorization: 58%	292/500 [01:36<01:12, 2.87it/s]
Power Factorization: 59%	293/500 [01:36<01:12, 2.87it/s]
Power Factorization: 59%	294/500 [01:37<01:10, 2.93it/s]
Power Factorization: 59%	295/500 [01:37<01:11, 2.88it/s]
Power Factorization: 59%	296/500 [01:37<01:10, 2.89it/s]
Power Factorization: 59%	297/500 [01:38<01:11, 2.84it/s]
Power Factorization: 60%	298/500 [01:38<01:08, 2.94it/s]
Power Factorization: 60%	299/500 [01:38<01:04, 3.13it/s]
Power Factorization: 60%	300/500 [01:39<01:03, 3.13it/s]
Power Factorization: 60%	301/500 [01:39<01:03, 3.12it/s]
Power Factorization: 60%	302/500 [01:39<01:04, 3.06it/s]
Power Factorization: 61%	303/500 [01:40<01:07, 2.91it/s]
Power Factorization: 61%	304/500 [01:40<01:05, 3.00it/s]
Power Factorization: 61%	305/500 [01:40<01:05, 2.99it/s]
Power Factorization: 61%	306/500 [01:41<01:06, 2.94it/s]
Power Factorization: 61%	307/500 [01:41<01:02, 3.10it/s]
Power Factorization: 62%	308/500 [01:41<01:01, 3.14it/s]
Power Factorization: 62%	309/500 [01:41<01:01, 3.12it/s]
Power Factorization: 62%	310/500 [01:42<01:00, 3.16it/s]

Power Factorization: 62%	311/500 [01:42<00:58, 3.21it/s]
Power Factorization: 62%	312/500 [01:42<01:00, 3.12it/s]
Power Factorization: 63%	313/500 [01:43<01:00, 3.08it/s]
Power Factorization: 63%	314/500 [01:43<01:00, 3.07it/s]
Power Factorization: 63%	315/500 [01:43<01:00, 3.03it/s]
Power Factorization: 63%	316/500 [01:44<01:03, 2.89it/s]
Power Factorization: 63%	317/500 [01:44<01:05, 2.79it/s]
Power Factorization: 64%	318/500 [01:45<01:05, 2.79it/s]
Power Factorization: 64%	319/500 [01:45<01:03, 2.86it/s]
Power Factorization: 64%	320/500 [01:45<00:59, 3.01it/s]
Power Factorization: 64%	321/500 [01:46<01:02, 2.87it/s]
Power Factorization: 64%	322/500 [01:46<01:02, 2.86it/s]
Power Factorization: 65%	323/500 [01:46<01:02, 2.84it/s]
Power Factorization: 65%	324/500 [01:47<01:01, 2.86it/s]
Power Factorization: 65%	325/500 [01:47<01:00, 2.88it/s]
Power Factorization: 65%	326/500 [01:47<01:00, 2.88it/s]
Power Factorization: 65%	327/500 [01:48<01:02, 2.77it/s]
Power Factorization: 66%	328/500 [01:48<01:02, 2.76it/s]
Power Factorization: 66%	329/500 [01:48<00:59, 2.85it/s]
Power Factorization: 66%	330/500 [01:49<00:59, 2.85it/s]
Power Factorization: 66%	331/500 [01:49<00:57, 2.92it/s]
Power Factorization: 66%	332/500 [01:49<00:56, 3.00it/s]
Power Factorization: 67%	333/500 [01:50<00:56, 2.96it/s]
Power Factorization: 67%	334/500 [01:50<00:56, 2.96it/s]

Power Factorization: 67%	335/500 [01:50<00:55, 2.97it/s]
Power Factorization: 67%	336/500 [01:51<00:58, 2.79it/s]
Power Factorization: 67%	337/500 [01:51<00:56, 2.88it/s]
Power Factorization: 68%	338/500 [01:51<00:54, 2.96it/s]
Power Factorization: 68%	339/500 [01:52<00:56, 2.82it/s]
Power Factorization: 68%	340/500 [01:52<00:55, 2.87it/s]
Power Factorization: 68%	341/500 [01:52<00:52, 3.06it/s]
Power Factorization: 68%	342/500 [01:53<00:50, 3.16it/s]
Power Factorization: 69%	343/500 [01:53<00:48, 3.27it/s]
Power Factorization: 69%	344/500 [01:53<00:48, 3.24it/s]
Power Factorization: 69%	345/500 [01:54<00:48, 3.17it/s]
Power Factorization: 69%	346/500 [01:54<00:48, 3.15it/s]
Power Factorization: 69%	347/500 [01:54<00:49, 3.08it/s]
Power Factorization: 70%	348/500 [01:55<00:49, 3.05it/s]
Power Factorization: 70%	349/500 [01:55<00:49, 3.03it/s]
Power Factorization: 70%	350/500 [01:55<00:50, 2.95it/s]
Power Factorization: 70%	351/500 [01:56<00:50, 2.96it/s]
Power Factorization: 70%	352/500 [01:56<00:50, 2.95it/s]
Power Factorization: 71%	353/500 [01:56<00:49, 2.96it/s]
Power Factorization: 71%	354/500 [01:57<00:47, 3.08it/s]
Power Factorization: 71%	355/500 [01:57<00:46, 3.10it/s]
Power Factorization: 71%	356/500 [01:57<00:45, 3.16it/s]
Power Factorization: 71%	357/500 [01:58<00:45, 3.15it/s]
Power Factorization: 72%	358/500 [01:58<00:46, 3.05it/s]

Power Factorization: 72%	359/500 [01:58<00:44,	3.15it/s]
Power Factorization: 72%	360/500 [01:59<00:45,	3.10it/s]
Power Factorization: 72%	361/500 [01:59<00:45,	3.02it/s]
Power Factorization: 72%	362/500 [01:59<00:44,	3.08it/s]
Power Factorization: 73%	363/500 [02:00<00:43,	3.17it/s]
Power Factorization: 73%	364/500 [02:00<00:42,	3.20it/s]
Power Factorization: 73%	365/500 [02:00<00:45,	2.98it/s]
Power Factorization: 73%	366/500 [02:01<00:46,	2.90it/s]
Power Factorization: 73%	367/500 [02:01<00:47,	2.83it/s]
Power Factorization: 74%	368/500 [02:01<00:44,	2.96it/s]
Power Factorization: 74%	369/500 [02:02<00:47,	2.77it/s]
Power Factorization: 74%	370/500 [02:02<00:49,	2.65it/s]
Power Factorization: 74%	371/500 [02:02<00:46,	2.78it/s]
Power Factorization: 74%	372/500 [02:03<00:43,	2.93it/s]
Power Factorization: 75%	373/500 [02:03<00:41,	3.03it/s]
Power Factorization: 75%	374/500 [02:03<00:41,	3.06it/s]
Power Factorization: 75%	375/500 [02:04<00:40,	3.05it/s]
Power Factorization: 75%	376/500 [02:04<00:40,	3.04it/s]
Power Factorization: 75%	377/500 [02:04<00:41,	2.98it/s]
Power Factorization: 76%	378/500 [02:05<00:41,	2.92it/s]
Power Factorization: 76%	379/500 [02:05<00:40,	2.97it/s]
Power Factorization: 76%	380/500 [02:05<00:39,	3.06it/s]
Power Factorization: 76%	381/500 [02:06<00:44,	2.68it/s]
Power Factorization: 76%	382/500 [02:06<00:42,	2.76it/s]

Power Factorization: 77%	383/500 [02:06<00:41,	2.84it/s]
Power Factorization: 77%	384/500 [02:07<00:39,	2.92it/s]
Power Factorization: 77%	385/500 [02:07<00:38,	2.97it/s]
Power Factorization: 77%	386/500 [02:07<00:37,	3.01it/s]
Power Factorization: 77%	387/500 [02:08<00:39,	2.89it/s]
Power Factorization: 78%	388/500 [02:08<00:39,	2.80it/s]
Power Factorization: 78%	389/500 [02:09<00:39,	2.81it/s]
Power Factorization: 78%	390/500 [02:09<00:38,	2.87it/s]
Power Factorization: 78%	391/500 [02:09<00:38,	2.80it/s]
Power Factorization: 78%	392/500 [02:10<00:37,	2.86it/s]
Power Factorization: 79%	393/500 [02:10<00:36,	2.93it/s]
Power Factorization: 79%	394/500 [02:10<00:37,	2.83it/s]
Power Factorization: 79%	395/500 [02:11<00:37,	2.78it/s]
Power Factorization: 79%	396/500 [02:11<00:35,	2.93it/s]
Power Factorization: 79%	397/500 [02:11<00:35,	2.93it/s]
Power Factorization: 80%	398/500 [02:12<00:34,	2.93it/s]
Power Factorization: 80%	399/500 [02:12<00:34,	2.96it/s]
Power Factorization: 80%	400/500 [02:12<00:35,	2.82it/s]
Power Factorization: 80%	401/500 [02:13<00:33,	2.97it/s]
Power Factorization: 80%	402/500 [02:13<00:32,	2.99it/s]
Power Factorization: 81%	403/500 [02:13<00:31,	3.04it/s]
Power Factorization: 81%	404/500 [02:14<00:32,	2.99it/s]
Power Factorization: 81%	405/500 [02:14<00:31,	3.06it/s]
Power Factorization: 81%	406/500 [02:14<00:31,	2.97it/s]

Power Factorization: 81%	407/500 [02:15<00:31,	2.92it/s]
Power Factorization: 82%	408/500 [02:15<00:31,	2.95it/s]
Power Factorization: 82%	409/500 [02:15<00:31,	2.91it/s]
Power Factorization: 82%	410/500 [02:16<00:31,	2.84it/s]
Power Factorization: 82%	411/500 [02:16<00:30,	2.95it/s]
Power Factorization: 82%	412/500 [02:16<00:28,	3.06it/s]
Power Factorization: 83%	413/500 [02:17<00:28,	3.07it/s]
Power Factorization: 83%	414/500 [02:17<00:27,	3.10it/s]
Power Factorization: 83%	415/500 [02:17<00:28,	2.97it/s]
Power Factorization: 83%	416/500 [02:18<00:28,	2.91it/s]
Power Factorization: 83%	417/500 [02:18<00:28,	2.90it/s]
Power Factorization: 84%	418/500 [02:18<00:28,	2.87it/s]
Power Factorization: 84%	419/500 [02:19<00:27,	2.94it/s]
Power Factorization: 84%	420/500 [02:19<00:27,	2.95it/s]
Power Factorization: 84%	421/500 [02:19<00:27,	2.93it/s]
Power Factorization: 84%	422/500 [02:20<00:26,	2.91it/s]
Power Factorization: 85%	423/500 [02:20<00:26,	2.92it/s]
Power Factorization: 85%	424/500 [02:20<00:25,	2.96it/s]
Power Factorization: 85%	425/500 [02:21<00:25,	2.90it/s]
Power Factorization: 85%	426/500 [02:21<00:25,	2.88it/s]
Power Factorization: 85%	427/500 [02:22<00:25,	2.86it/s]
Power Factorization: 86%	428/500 [02:22<00:26,	2.74it/s]
Power Factorization: 86%	429/500 [02:22<00:25,	2.76it/s]
Power Factorization: 86%	430/500 [02:23<00:25,	2.80it/s]

Power Factorization: 86%	431/500 [02:23<00:25,	2.71it/s]
Power Factorization: 86%	432/500 [02:23<00:25,	2.69it/s]
Power Factorization: 87%	433/500 [02:24<00:23,	2.79it/s]
Power Factorization: 87%	434/500 [02:24<00:23,	2.82it/s]
Power Factorization: 87%	435/500 [02:24<00:23,	2.79it/s]
Power Factorization: 87%	436/500 [02:25<00:22,	2.82it/s]
Power Factorization: 87%	437/500 [02:25<00:22,	2.84it/s]
Power Factorization: 88%	438/500 [02:25<00:21,	2.90it/s]
Power Factorization: 88%	439/500 [02:26<00:20,	2.95it/s]
Power Factorization: 88%	440/500 [02:26<00:20,	2.96it/s]
Power Factorization: 88%	441/500 [02:27<00:21,	2.74it/s]
Power Factorization: 88%	442/500 [02:27<00:20,	2.86it/s]
Power Factorization: 89%	443/500 [02:27<00:18,	3.10it/s]
Power Factorization: 89%	444/500 [02:27<00:17,	3.15it/s]
Power Factorization: 89%	445/500 [02:28<00:17,	3.09it/s]
Power Factorization: 89%	446/500 [02:28<00:17,	3.07it/s]
Power Factorization: 89%	447/500 [02:28<00:17,	3.06it/s]
Power Factorization: 90%	448/500 [02:29<00:19,	2.73it/s]
Power Factorization: 90%	449/500 [02:29<00:18,	2.71it/s]
Power Factorization: 90%	450/500 [02:30<00:18,	2.73it/s]
Power Factorization: 90%	451/500 [02:30<00:17,	2.76it/s]
Power Factorization: 90%	452/500 [02:30<00:16,	2.85it/s]
Power Factorization: 91%	453/500 [02:31<00:16,	2.77it/s]
Power Factorization: 91%	454/500 [02:31<00:16,	2.74it/s]

Power Factorization: 91%	455/500 [02:31<00:17, 2.62it/s]
Power Factorization: 91%	456/500 [02:32<00:16, 2.65it/s]
Power Factorization: 91%	457/500 [02:32<00:15, 2.75it/s]
Power Factorization: 92%	458/500 [02:33<00:14, 2.83it/s]
Power Factorization: 92%	459/500 [02:33<00:14, 2.88it/s]
Power Factorization: 92%	460/500 [02:33<00:13, 2.88it/s]
Power Factorization: 92%	461/500 [02:34<00:13, 2.94it/s]
Power Factorization: 92%	462/500 [02:34<00:13, 2.91it/s]
Power Factorization: 93%	463/500 [02:34<00:12, 2.93it/s]
Power Factorization: 93%	464/500 [02:35<00:12, 2.88it/s]
Power Factorization: 93%	465/500 [02:35<00:12, 2.72it/s]
Power Factorization: 93%	466/500 [02:35<00:12, 2.79it/s]
Power Factorization: 93%	467/500 [02:36<00:11, 2.94it/s]
Power Factorization: 94%	468/500 [02:36<00:10, 2.96it/s]
Power Factorization: 94%	469/500 [02:36<00:10, 2.93it/s]
Power Factorization: 94%	470/500 [02:37<00:10, 3.00it/s]
Power Factorization: 94%	471/500 [02:37<00:09, 3.10it/s]
Power Factorization: 94%	472/500 [02:37<00:09, 3.10it/s]
Power Factorization: 95%	473/500 [02:38<00:09, 3.00it/s]
Power Factorization: 95%	474/500 [02:38<00:09, 2.89it/s]
Power Factorization: 95%	475/500 [02:38<00:08, 2.79it/s]
Power Factorization: 95%	476/500 [02:39<00:08, 2.79it/s]
Power Factorization: 95%	477/500 [02:39<00:08, 2.83it/s]
Power Factorization: 96%	478/500 [02:39<00:07, 2.82it/s]

Power Factorization: 96%	479/500 [02:40<00:07, 2.82it/s]
Power Factorization: 96%	480/500 [02:40<00:07, 2.84it/s]
Power Factorization: 96%	481/500 [02:40<00:06, 2.79it/s]
Power Factorization: 96%	482/500 [02:41<00:06, 2.89it/s]
Power Factorization: 97%	483/500 [02:41<00:05, 2.87it/s]
Power Factorization: 97%	484/500 [02:42<00:05, 2.86it/s]
Power Factorization: 97%	485/500 [02:42<00:05, 2.86it/s]
Power Factorization: 97%	486/500 [02:42<00:04, 2.84it/s]
Power Factorization: 97%	487/500 [02:43<00:04, 2.76it/s]
Power Factorization: 98%	488/500 [02:43<00:04, 2.71it/s]
Power Factorization: 98%	489/500 [02:43<00:03, 2.82it/s]
Power Factorization: 98%	490/500 [02:44<00:03, 2.80it/s]
Power Factorization: 98%	491/500 [02:44<00:03, 2.86it/s]
Power Factorization: 98%	492/500 [02:44<00:02, 2.81it/s]
Power Factorization: 99%	493/500 [02:45<00:02, 2.92it/s]
Power Factorization: 99%	494/500 [02:45<00:02, 2.99it/s]
Power Factorization: 99%	495/500 [02:45<00:01, 2.90it/s]
Power Factorization: 99%	496/500 [02:46<00:01, 2.74it/s]
Power Factorization: 99%	497/500 [02:46<00:01, 2.79it/s]
Power Factorization: 100%	498/500 [02:46<00:00, 2.94it/s]
Power Factorization: 100%	499/500 [02:47<00:00, 3.00it/s]
Power Factorization: 100%	500/500 [02:47<00:00, 2.98it/s]
Cross Validation: 100%	5/5 [14:21<00:00, 172.38s/it]
Grid Search: 69%	11/16 [1:49:37<1:05:37, 787.52s/it]

Average RMS for k=15, lambda=10: 2.5667, Execution time: 172.3155s

```
Cross Validation:  0%|          | 0/5 [00:00<?, ?it/s]

Power Factorization:  0%|          | 0/500 [00:00<?, ?it/s]

Power Factorization:  0%|          | 1/500 [00:00<03:02,  2.73it/s]

Power Factorization:  0%|          | 2/500 [00:00<03:08,  2.65it/s]

Power Factorization:  1%|          | 3/500 [00:01<03:16,  2.53it/s]

Power Factorization:  1%|          | 4/500 [00:01<03:20,  2.47it/s]

Power Factorization:  1%|          | 5/500 [00:01<02:58,  2.78it/s]

Power Factorization:  1%|          | 6/500 [00:02<02:59,  2.75it/s]

Power Factorization:  1%|          | 7/500 [00:02<03:05,  2.66it/s]

Power Factorization:  2%|          | 8/500 [00:02<02:59,  2.73it/s]

Power Factorization:  2%|          | 9/500 [00:03<02:50,  2.89it/s]

Power Factorization:  2%|          | 10/500 [00:03<02:56,  2.77it/s]

Power Factorization:  2%|          | 11/500 [00:04<03:11,  2.55it/s]

Power Factorization:  2%|          | 12/500 [00:04<03:08,  2.59it/s]

Power Factorization:  3%|          | 13/500 [00:05<03:09,  2.57it/s]

Cross Validation:  20%|          | 1/5 [00:05<00:20,  5.11s/it]

Power Factorization:  0%|          | 0/500 [00:00<?, ?it/s]

Power Factorization:  0%|          | 1/500 [00:00<02:38,  3.14it/s]

Power Factorization:  0%|          | 2/500 [00:00<02:44,  3.03it/s]

Power Factorization:  1%|          | 3/500 [00:01<02:49,  2.93it/s]

Power Factorization:  1%|          | 4/500 [00:01<02:56,  2.81it/s]

Power Factorization:  1%|          | 5/500 [00:01<02:50,  2.91it/s]

Power Factorization:  1%|          | 6/500 [00:02<02:58,  2.76it/s]
```

Power Factorization:	1%	7/500 [00:02<03:03, 2.68it/s]
Power Factorization:	2%	8/500 [00:02<02:58, 2.76it/s]
Power Factorization:	2%	9/500 [00:03<02:53, 2.84it/s]
Power Factorization:	2%	10/500 [00:03<02:49, 2.88it/s]
Power Factorization:	2%	11/500 [00:03<02:47, 2.92it/s]
Power Factorization:	2%	12/500 [00:04<02:42, 3.00it/s]
Power Factorization:	3%	13/500 [00:04<02:54, 2.79it/s]
Cross Validation:	40%	2/5 [00:09<00:14, 4.88s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<02:54, 2.85it/s]
Power Factorization:	0%	2/500 [00:00<03:08, 2.64it/s]
Power Factorization:	1%	3/500 [00:01<02:54, 2.85it/s]
Power Factorization:	1%	4/500 [00:01<02:56, 2.82it/s]
Power Factorization:	1%	5/500 [00:01<02:52, 2.87it/s]
Power Factorization:	1%	6/500 [00:02<02:48, 2.92it/s]
Power Factorization:	1%	7/500 [00:02<02:56, 2.79it/s]
Power Factorization:	2%	8/500 [00:02<03:02, 2.70it/s]
Power Factorization:	2%	9/500 [00:03<02:54, 2.82it/s]
Power Factorization:	2%	10/500 [00:03<02:49, 2.90it/s]
Power Factorization:	2%	11/500 [00:03<02:52, 2.84it/s]
Power Factorization:	2%	12/500 [00:04<02:47, 2.91it/s]
Power Factorization:	3%	13/500 [00:04<02:58, 2.72it/s]
Cross Validation:	60%	3/5 [00:14<00:09, 4.86s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]

Power Factorization:	0%	1/500	[00:00<02:29, 3.34it/s]
Power Factorization:	0%	2/500	[00:00<02:37, 3.16it/s]
Power Factorization:	1%	3/500	[00:01<02:53, 2.87it/s]
Power Factorization:	1%	4/500	[00:01<02:54, 2.83it/s]
Power Factorization:	1%	5/500	[00:01<02:57, 2.79it/s]
Power Factorization:	1%	6/500	[00:02<02:53, 2.85it/s]
Power Factorization:	1%	7/500	[00:02<02:52, 2.85it/s]
Power Factorization:	2%	8/500	[00:02<02:54, 2.83it/s]
Power Factorization:	2%	9/500	[00:03<02:52, 2.84it/s]
Power Factorization:	2%	10/500	[00:03<02:46, 2.94it/s]
Power Factorization:	2%	11/500	[00:03<02:46, 2.94it/s]
Power Factorization:	2%	12/500	[00:04<02:56, 2.77it/s]
Power Factorization:	3%	13/500	[00:04<02:57, 2.75it/s]
Cross Validation:	80%	4/5	[00:19<00:04, 4.83s/it]
Power Factorization:	0%	0/500	[00:00<?, ?it/s]
Power Factorization:	0%	1/500	[00:00<02:53, 2.88it/s]
Power Factorization:	0%	2/500	[00:00<02:50, 2.92it/s]
Power Factorization:	1%	3/500	[00:01<02:48, 2.96it/s]
Power Factorization:	1%	4/500	[00:01<02:46, 2.98it/s]
Power Factorization:	1%	5/500	[00:01<02:50, 2.90it/s]
Power Factorization:	1%	6/500	[00:02<02:51, 2.89it/s]
Power Factorization:	1%	7/500	[00:02<02:54, 2.82it/s]
Power Factorization:	2%	8/500	[00:02<02:53, 2.83it/s]
Power Factorization:	2%	9/500	[00:03<02:54, 2.81it/s]

Power Factorization: 2%| | 10/500 [00:03<02:51, 2.86it/s]
Power Factorization: 2%| | 11/500 [00:03<02:56, 2.77it/s]
Power Factorization: 2%| | 12/500 [00:04<02:57, 2.76it/s]
Power Factorization: 3%| | 13/500 [00:04<02:59, 2.71it/s]
Cross Validation: 100%| | 5/5 [00:24<00:00, 4.86s/it]
Grid Search: 75%| | 12/16 [1:50:02<37:01, 555.35s/it]
Average RMS for k=15, lambda=100: 5.1246, Execution time: 4.8086s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]
Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]
Power Factorization: 0%| | 1/500 [00:00<03:10, 2.62it/s]
Power Factorization: 0%| | 2/500 [00:00<03:17, 2.52it/s]
Power Factorization: 1%| | 3/500 [00:01<03:25, 2.42it/s]
Power Factorization: 1%| | 4/500 [00:01<03:30, 2.36it/s]
Power Factorization: 1%| | 5/500 [00:01<03:14, 2.55it/s]
Power Factorization: 1%| | 6/500 [00:02<03:27, 2.38it/s]
Power Factorization: 1%| | 7/500 [00:02<03:28, 2.37it/s]
Power Factorization: 2%| | 8/500 [00:03<03:24, 2.41it/s]
Power Factorization: 2%| | 9/500 [00:03<03:23, 2.41it/s]
Power Factorization: 2%| | 10/500 [00:04<03:21, 2.43it/s]
Power Factorization: 2%| | 11/500 [00:04<03:23, 2.41it/s]
Power Factorization: 2%| | 12/500 [00:04<03:15, 2.50it/s]
Power Factorization: 3%| | 13/500 [00:05<03:12, 2.53it/s]
Power Factorization: 3%| | 14/500 [00:05<03:17, 2.46it/s]
Power Factorization: 3%| | 15/500 [00:06<03:10, 2.55it/s]

Power Factorization:	3%	16/500	[00:06<03:08,	2.57it/s]
Power Factorization:	3%	17/500	[00:06<03:09,	2.55it/s]
Power Factorization:	4%	18/500	[00:07<03:22,	2.38it/s]
Power Factorization:	4%	19/500	[00:07<03:19,	2.41it/s]
Power Factorization:	4%	20/500	[00:08<03:16,	2.44it/s]
Power Factorization:	4%	21/500	[00:08<03:16,	2.43it/s]
Power Factorization:	4%	22/500	[00:08<03:08,	2.53it/s]
Power Factorization:	5%	23/500	[00:09<03:08,	2.54it/s]
Power Factorization:	5%	24/500	[00:09<03:01,	2.62it/s]
Power Factorization:	5%	25/500	[00:10<03:03,	2.59it/s]
Power Factorization:	5%	26/500	[00:10<03:04,	2.57it/s]
Power Factorization:	5%	27/500	[00:10<03:05,	2.56it/s]
Power Factorization:	6%	28/500	[00:11<03:04,	2.56it/s]
Power Factorization:	6%	29/500	[00:11<03:07,	2.51it/s]
Power Factorization:	6%	30/500	[00:12<03:05,	2.54it/s]
Power Factorization:	6%	31/500	[00:12<03:10,	2.46it/s]
Power Factorization:	6%	32/500	[00:12<03:08,	2.48it/s]
Power Factorization:	7%	33/500	[00:13<03:17,	2.36it/s]
Power Factorization:	7%	34/500	[00:13<03:16,	2.38it/s]
Power Factorization:	7%	35/500	[00:14<03:12,	2.42it/s]
Power Factorization:	7%	36/500	[00:14<03:12,	2.41it/s]
Power Factorization:	7%	37/500	[00:14<03:08,	2.46it/s]
Power Factorization:	8%	38/500	[00:15<03:09,	2.43it/s]
Power Factorization:	8%	39/500	[00:15<03:00,	2.56it/s]

Power Factorization:	8%	40/500 [00:16<03:01, 2.54it/s]
Power Factorization:	8%	41/500 [00:16<03:03, 2.51it/s]
Power Factorization:	8%	42/500 [00:16<03:06, 2.45it/s]
Power Factorization:	9%	43/500 [00:17<03:02, 2.51it/s]
Power Factorization:	9%	44/500 [00:17<02:59, 2.55it/s]
Power Factorization:	9%	45/500 [00:18<02:53, 2.62it/s]
Power Factorization:	9%	46/500 [00:18<02:56, 2.57it/s]
Power Factorization:	9%	47/500 [00:18<02:57, 2.56it/s]
Power Factorization:	10%	48/500 [00:19<02:56, 2.56it/s]
Power Factorization:	10%	49/500 [00:19<02:59, 2.51it/s]
Power Factorization:	10%	50/500 [00:20<03:04, 2.43it/s]
Power Factorization:	10%	51/500 [00:20<03:01, 2.47it/s]
Power Factorization:	10%	52/500 [00:20<03:03, 2.44it/s]
Power Factorization:	11%	53/500 [00:21<02:59, 2.49it/s]
Power Factorization:	11%	54/500 [00:21<03:03, 2.43it/s]
Power Factorization:	11%	55/500 [00:22<02:57, 2.50it/s]
Power Factorization:	11%	56/500 [00:22<02:54, 2.55it/s]
Power Factorization:	11%	57/500 [00:22<02:50, 2.59it/s]
Power Factorization:	12%	58/500 [00:23<02:47, 2.64it/s]
Power Factorization:	12%	59/500 [00:23<02:44, 2.68it/s]
Power Factorization:	12%	60/500 [00:23<02:46, 2.64it/s]
Power Factorization:	12%	61/500 [00:24<02:47, 2.61it/s]
Power Factorization:	12%	62/500 [00:24<02:47, 2.61it/s]
Power Factorization:	13%	63/500 [00:25<02:50, 2.56it/s]

Power Factorization: 13%	64/500 [00:25<02:49, 2.57it/s]
Power Factorization: 13%	65/500 [00:25<02:49, 2.57it/s]
Power Factorization: 13%	66/500 [00:26<02:54, 2.48it/s]
Power Factorization: 13%	67/500 [00:26<02:49, 2.56it/s]
Power Factorization: 14%	68/500 [00:27<02:49, 2.55it/s]
Power Factorization: 14%	69/500 [00:27<02:46, 2.59it/s]
Power Factorization: 14%	70/500 [00:27<02:42, 2.64it/s]
Power Factorization: 14%	71/500 [00:28<02:41, 2.66it/s]
Power Factorization: 14%	72/500 [00:28<02:46, 2.57it/s]
Power Factorization: 15%	73/500 [00:29<02:46, 2.56it/s]
Power Factorization: 15%	74/500 [00:29<02:41, 2.63it/s]
Power Factorization: 15%	75/500 [00:29<02:45, 2.57it/s]
Power Factorization: 15%	76/500 [00:30<02:51, 2.47it/s]
Power Factorization: 15%	77/500 [00:30<02:50, 2.48it/s]
Power Factorization: 16%	78/500 [00:31<02:50, 2.47it/s]
Power Factorization: 16%	79/500 [00:31<02:52, 2.43it/s]
Power Factorization: 16%	80/500 [00:31<02:52, 2.44it/s]
Power Factorization: 16%	81/500 [00:32<02:54, 2.40it/s]
Power Factorization: 16%	82/500 [00:32<02:54, 2.39it/s]
Power Factorization: 17%	83/500 [00:33<02:43, 2.55it/s]
Power Factorization: 17%	84/500 [00:33<02:30, 2.76it/s]
Power Factorization: 17%	85/500 [00:33<02:31, 2.75it/s]
Power Factorization: 17%	86/500 [00:34<02:31, 2.73it/s]
Power Factorization: 17%	87/500 [00:34<02:31, 2.72it/s]

Power Factorization: 18%	88/500 [00:34<02:38, 2.60it/s]
Power Factorization: 18%	89/500 [00:35<02:38, 2.59it/s]
Power Factorization: 18%	90/500 [00:35<02:29, 2.75it/s]
Power Factorization: 18%	91/500 [00:35<02:30, 2.72it/s]
Power Factorization: 18%	92/500 [00:36<02:25, 2.81it/s]
Power Factorization: 19%	93/500 [00:36<02:30, 2.70it/s]
Power Factorization: 19%	94/500 [00:37<02:28, 2.73it/s]
Power Factorization: 19%	95/500 [00:37<02:21, 2.86it/s]
Power Factorization: 19%	96/500 [00:37<02:20, 2.87it/s]
Power Factorization: 19%	97/500 [00:38<02:22, 2.83it/s]
Power Factorization: 20%	98/500 [00:38<02:23, 2.81it/s]
Power Factorization: 20%	99/500 [00:38<02:19, 2.86it/s]
Power Factorization: 20%	100/500 [00:39<02:20, 2.84it/s]
Power Factorization: 20%	101/500 [00:39<02:19, 2.85it/s]
Power Factorization: 20%	102/500 [00:39<02:24, 2.76it/s]
Power Factorization: 21%	103/500 [00:40<02:24, 2.74it/s]
Power Factorization: 21%	104/500 [00:40<02:20, 2.81it/s]
Power Factorization: 21%	105/500 [00:40<02:21, 2.80it/s]
Power Factorization: 21%	106/500 [00:41<02:14, 2.94it/s]
Power Factorization: 21%	107/500 [00:41<02:12, 2.96it/s]
Power Factorization: 22%	108/500 [00:41<02:15, 2.88it/s]
Power Factorization: 22%	109/500 [00:42<02:17, 2.85it/s]
Power Factorization: 22%	110/500 [00:42<02:22, 2.74it/s]
Power Factorization: 22%	111/500 [00:43<02:19, 2.80it/s]

Power Factorization: 22%	112/500 [00:43<02:20, 2.76it/s]
Power Factorization: 23%	113/500 [00:43<02:23, 2.70it/s]
Power Factorization: 23%	114/500 [00:44<02:20, 2.74it/s]
Power Factorization: 23%	115/500 [00:44<02:26, 2.63it/s]
Power Factorization: 23%	116/500 [00:45<02:32, 2.52it/s]
Power Factorization: 23%	117/500 [00:45<02:31, 2.52it/s]
Power Factorization: 24%	118/500 [00:45<02:27, 2.59it/s]
Power Factorization: 24%	119/500 [00:46<02:22, 2.68it/s]
Power Factorization: 24%	120/500 [00:46<02:17, 2.77it/s]
Power Factorization: 24%	121/500 [00:46<02:14, 2.81it/s]
Power Factorization: 24%	122/500 [00:47<02:20, 2.69it/s]
Power Factorization: 25%	123/500 [00:47<02:16, 2.76it/s]
Power Factorization: 25%	124/500 [00:47<02:18, 2.71it/s]
Power Factorization: 25%	125/500 [00:48<02:13, 2.81it/s]
Power Factorization: 25%	126/500 [00:48<02:14, 2.79it/s]
Power Factorization: 25%	127/500 [00:48<02:14, 2.77it/s]
Power Factorization: 26%	128/500 [00:49<02:10, 2.86it/s]
Power Factorization: 26%	129/500 [00:49<02:07, 2.92it/s]
Power Factorization: 26%	130/500 [00:49<02:05, 2.96it/s]
Power Factorization: 26%	131/500 [00:50<02:05, 2.94it/s]
Power Factorization: 26%	132/500 [00:50<02:10, 2.81it/s]
Power Factorization: 27%	133/500 [00:51<02:10, 2.80it/s]
Power Factorization: 27%	134/500 [00:51<02:09, 2.82it/s]
Power Factorization: 27%	135/500 [00:51<02:09, 2.82it/s]

Power Factorization: 27%	136/500 [00:52<02:09, 2.81it/s]
Power Factorization: 27%	137/500 [00:52<02:13, 2.72it/s]
Power Factorization: 28%	138/500 [00:52<02:08, 2.81it/s]
Power Factorization: 28%	139/500 [00:53<02:10, 2.77it/s]
Power Factorization: 28%	140/500 [00:53<02:11, 2.74it/s]
Power Factorization: 28%	141/500 [00:53<02:08, 2.80it/s]
Power Factorization: 28%	142/500 [00:54<02:06, 2.83it/s]
Power Factorization: 29%	143/500 [00:54<02:07, 2.80it/s]
Power Factorization: 29%	144/500 [00:54<02:04, 2.85it/s]
Power Factorization: 29%	145/500 [00:55<02:03, 2.88it/s]
Power Factorization: 29%	146/500 [00:55<02:06, 2.80it/s]
Power Factorization: 29%	147/500 [00:56<02:03, 2.86it/s]
Power Factorization: 30%	148/500 [00:56<02:03, 2.84it/s]
Power Factorization: 30%	149/500 [00:56<02:00, 2.91it/s]
Power Factorization: 30%	150/500 [00:57<02:06, 2.77it/s]
Power Factorization: 30%	151/500 [00:57<02:04, 2.80it/s]
Power Factorization: 30%	152/500 [00:57<02:01, 2.87it/s]
Power Factorization: 31%	153/500 [00:58<02:03, 2.82it/s]
Power Factorization: 31%	154/500 [00:58<02:02, 2.82it/s]
Power Factorization: 31%	155/500 [00:58<02:01, 2.83it/s]
Power Factorization: 31%	156/500 [00:59<02:07, 2.70it/s]
Power Factorization: 31%	157/500 [00:59<02:05, 2.72it/s]
Power Factorization: 32%	158/500 [00:59<02:03, 2.78it/s]
Power Factorization: 32%	159/500 [01:00<02:02, 2.79it/s]

Power Factorization: 32%	160/500 [01:00<02:00, 2.82it/s]
Power Factorization: 32%	161/500 [01:01<01:57, 2.89it/s]
Power Factorization: 32%	162/500 [01:01<01:57, 2.88it/s]
Power Factorization: 33%	163/500 [01:01<01:55, 2.92it/s]
Power Factorization: 33%	164/500 [01:02<01:55, 2.91it/s]
Power Factorization: 33%	165/500 [01:02<01:53, 2.96it/s]
Power Factorization: 33%	166/500 [01:02<01:55, 2.89it/s]
Power Factorization: 33%	167/500 [01:03<01:59, 2.79it/s]
Power Factorization: 34%	168/500 [01:03<02:00, 2.75it/s]
Power Factorization: 34%	169/500 [01:03<01:58, 2.80it/s]
Power Factorization: 34%	170/500 [01:04<01:58, 2.78it/s]
Power Factorization: 34%	171/500 [01:04<01:55, 2.85it/s]
Power Factorization: 34%	172/500 [01:04<01:52, 2.91it/s]
Power Factorization: 35%	173/500 [01:05<01:58, 2.75it/s]
Power Factorization: 35%	174/500 [01:05<02:02, 2.67it/s]
Power Factorization: 35%	175/500 [01:06<02:04, 2.62it/s]
Power Factorization: 35%	176/500 [01:06<02:03, 2.63it/s]
Power Factorization: 35%	177/500 [01:06<01:55, 2.80it/s]
Power Factorization: 36%	178/500 [01:07<02:02, 2.62it/s]
Power Factorization: 36%	179/500 [01:07<01:57, 2.74it/s]
Power Factorization: 36%	180/500 [01:07<02:03, 2.59it/s]
Power Factorization: 36%	181/500 [01:08<02:05, 2.55it/s]
Power Factorization: 36%	182/500 [01:08<02:02, 2.60it/s]
Power Factorization: 37%	183/500 [01:09<01:58, 2.68it/s]

Power Factorization: 37%	184/500 [01:09<01:59, 2.65it/s]
Power Factorization: 37%	185/500 [01:09<01:56, 2.71it/s]
Power Factorization: 37%	186/500 [01:10<01:54, 2.74it/s]
Power Factorization: 37%	187/500 [01:10<01:58, 2.65it/s]
Power Factorization: 38%	188/500 [01:10<01:57, 2.65it/s]
Power Factorization: 38%	189/500 [01:11<01:53, 2.74it/s]
Power Factorization: 38%	190/500 [01:11<01:52, 2.75it/s]
Power Factorization: 38%	191/500 [01:12<02:02, 2.53it/s]
Power Factorization: 38%	192/500 [01:12<02:08, 2.41it/s]
Power Factorization: 39%	193/500 [01:12<02:00, 2.54it/s]
Power Factorization: 39%	194/500 [01:13<01:52, 2.72it/s]
Power Factorization: 39%	195/500 [01:13<01:49, 2.78it/s]
Power Factorization: 39%	196/500 [01:13<01:51, 2.73it/s]
Power Factorization: 39%	197/500 [01:14<01:50, 2.74it/s]
Power Factorization: 40%	198/500 [01:14<01:48, 2.78it/s]
Power Factorization: 40%	199/500 [01:14<01:46, 2.83it/s]
Power Factorization: 40%	200/500 [01:15<01:43, 2.89it/s]
Power Factorization: 40%	201/500 [01:15<01:44, 2.87it/s]
Power Factorization: 40%	202/500 [01:16<01:44, 2.85it/s]
Power Factorization: 41%	203/500 [01:16<01:43, 2.88it/s]
Power Factorization: 41%	204/500 [01:16<01:44, 2.84it/s]
Power Factorization: 41%	205/500 [01:17<01:40, 2.93it/s]
Power Factorization: 41%	206/500 [01:17<01:40, 2.94it/s]
Power Factorization: 41%	207/500 [01:17<01:36, 3.02it/s]

Power Factorization: 42%	208/500 [01:18<01:38, 2.96it/s]
Power Factorization: 42%	209/500 [01:18<01:35, 3.05it/s]
Power Factorization: 42%	210/500 [01:18<01:38, 2.93it/s]
Power Factorization: 42%	211/500 [01:19<01:49, 2.63it/s]
Power Factorization: 42%	212/500 [01:19<01:49, 2.64it/s]
Power Factorization: 43%	213/500 [01:19<01:44, 2.75it/s]
Power Factorization: 43%	214/500 [01:20<01:48, 2.64it/s]
Power Factorization: 43%	215/500 [01:20<01:44, 2.72it/s]
Power Factorization: 43%	216/500 [01:20<01:38, 2.88it/s]
Power Factorization: 43%	217/500 [01:21<01:39, 2.86it/s]
Power Factorization: 44%	218/500 [01:21<01:38, 2.87it/s]
Power Factorization: 44%	219/500 [01:22<01:38, 2.86it/s]
Power Factorization: 44%	220/500 [01:22<01:35, 2.93it/s]
Power Factorization: 44%	221/500 [01:22<01:32, 3.00it/s]
Power Factorization: 44%	222/500 [01:23<01:35, 2.92it/s]
Power Factorization: 45%	223/500 [01:23<01:32, 3.01it/s]
Power Factorization: 45%	224/500 [01:23<01:31, 3.02it/s]
Power Factorization: 45%	225/500 [01:24<01:36, 2.86it/s]
Power Factorization: 45%	226/500 [01:24<01:37, 2.81it/s]
Power Factorization: 45%	227/500 [01:24<01:38, 2.77it/s]
Power Factorization: 46%	228/500 [01:25<01:38, 2.76it/s]
Power Factorization: 46%	229/500 [01:25<01:34, 2.87it/s]
Power Factorization: 46%	230/500 [01:25<01:30, 2.97it/s]
Power Factorization: 46%	231/500 [01:26<01:36, 2.79it/s]

Power Factorization: 46%	232/500 [01:26<01:33, 2.85it/s]
Power Factorization: 47%	233/500 [01:26<01:30, 2.94it/s]
Power Factorization: 47%	234/500 [01:27<01:33, 2.86it/s]
Power Factorization: 47%	235/500 [01:27<01:29, 2.97it/s]
Power Factorization: 47%	236/500 [01:27<01:33, 2.83it/s]
Power Factorization: 47%	237/500 [01:28<01:32, 2.84it/s]
Power Factorization: 48%	238/500 [01:28<01:31, 2.86it/s]
Power Factorization: 48%	239/500 [01:28<01:29, 2.92it/s]
Power Factorization: 48%	240/500 [01:29<01:29, 2.91it/s]
Power Factorization: 48%	241/500 [01:29<01:29, 2.89it/s]
Power Factorization: 48%	242/500 [01:29<01:30, 2.84it/s]
Power Factorization: 49%	243/500 [01:30<01:30, 2.84it/s]
Power Factorization: 49%	244/500 [01:30<01:27, 2.93it/s]
Power Factorization: 49%	245/500 [01:30<01:25, 3.00it/s]
Power Factorization: 49%	246/500 [01:31<01:23, 3.06it/s]
Power Factorization: 49%	247/500 [01:31<01:26, 2.92it/s]
Power Factorization: 50%	248/500 [01:32<01:26, 2.90it/s]
Power Factorization: 50%	249/500 [01:32<01:24, 2.97it/s]
Power Factorization: 50%	250/500 [01:32<01:26, 2.90it/s]
Power Factorization: 50%	251/500 [01:33<01:26, 2.88it/s]
Power Factorization: 50%	252/500 [01:33<01:28, 2.81it/s]
Power Factorization: 51%	253/500 [01:33<01:28, 2.81it/s]
Power Factorization: 51%	254/500 [01:34<01:28, 2.79it/s]
Power Factorization: 51%	255/500 [01:34<01:24, 2.91it/s]

Power Factorization: 51%	256/500 [01:34<01:24, 2.89it/s]
Power Factorization: 51%	257/500 [01:35<01:24, 2.89it/s]
Power Factorization: 52%	258/500 [01:35<01:22, 2.92it/s]
Power Factorization: 52%	259/500 [01:35<01:24, 2.86it/s]
Power Factorization: 52%	260/500 [01:36<01:23, 2.88it/s]
Power Factorization: 52%	261/500 [01:36<01:22, 2.90it/s]
Power Factorization: 52%	262/500 [01:36<01:21, 2.93it/s]
Power Factorization: 53%	263/500 [01:37<01:23, 2.85it/s]
Power Factorization: 53%	264/500 [01:37<01:25, 2.76it/s]
Power Factorization: 53%	265/500 [01:37<01:22, 2.86it/s]
Power Factorization: 53%	266/500 [01:38<01:23, 2.82it/s]
Power Factorization: 53%	267/500 [01:38<01:21, 2.85it/s]
Power Factorization: 54%	268/500 [01:38<01:17, 2.98it/s]
Power Factorization: 54%	269/500 [01:39<01:17, 2.96it/s]
Power Factorization: 54%	270/500 [01:39<01:19, 2.91it/s]
Power Factorization: 54%	271/500 [01:40<01:22, 2.79it/s]
Power Factorization: 54%	272/500 [01:40<01:28, 2.57it/s]
Power Factorization: 55%	273/500 [01:40<01:23, 2.70it/s]
Power Factorization: 55%	274/500 [01:41<01:20, 2.82it/s]
Power Factorization: 55%	275/500 [01:41<01:18, 2.86it/s]
Power Factorization: 55%	276/500 [01:41<01:16, 2.92it/s]
Power Factorization: 55%	277/500 [01:42<01:18, 2.83it/s]
Power Factorization: 56%	278/500 [01:42<01:15, 2.94it/s]
Power Factorization: 56%	279/500 [01:42<01:14, 2.95it/s]

Power Factorization: 56%	280/500 [01:43<01:13, 2.99it/s]
Power Factorization: 56%	281/500 [01:43<01:14, 2.96it/s]
Power Factorization: 56%	282/500 [01:43<01:11, 3.03it/s]
Power Factorization: 57%	283/500 [01:44<01:11, 3.02it/s]
Power Factorization: 57%	284/500 [01:44<01:11, 3.02it/s]
Power Factorization: 57%	285/500 [01:44<01:10, 3.06it/s]
Power Factorization: 57%	286/500 [01:45<01:10, 3.05it/s]
Power Factorization: 57%	287/500 [01:45<01:11, 2.99it/s]
Power Factorization: 58%	288/500 [01:45<01:12, 2.94it/s]
Power Factorization: 58%	289/500 [01:46<01:14, 2.82it/s]
Power Factorization: 58%	290/500 [01:46<01:12, 2.88it/s]
Power Factorization: 58%	291/500 [01:46<01:10, 2.97it/s]
Power Factorization: 58%	292/500 [01:47<01:11, 2.89it/s]
Power Factorization: 59%	293/500 [01:47<01:11, 2.91it/s]
Power Factorization: 59%	294/500 [01:47<01:09, 2.99it/s]
Power Factorization: 59%	295/500 [01:48<01:11, 2.88it/s]
Power Factorization: 59%	296/500 [01:48<01:14, 2.76it/s]
Power Factorization: 59%	297/500 [01:49<01:13, 2.75it/s]
Power Factorization: 60%	298/500 [01:49<01:12, 2.78it/s]
Power Factorization: 60%	299/500 [01:49<01:10, 2.84it/s]
Power Factorization: 60%	300/500 [01:50<01:07, 2.96it/s]
Power Factorization: 60%	301/500 [01:50<01:07, 2.95it/s]
Power Factorization: 60%	302/500 [01:50<01:05, 3.02it/s]
Power Factorization: 61%	303/500 [01:51<01:07, 2.90it/s]

Power Factorization: 61%	304/500 [01:51<01:06, 2.93it/s]
Power Factorization: 61%	305/500 [01:51<01:06, 2.92it/s]
Power Factorization: 61%	306/500 [01:52<01:04, 3.00it/s]
Power Factorization: 61%	307/500 [01:52<01:02, 3.07it/s]
Power Factorization: 62%	308/500 [01:52<01:03, 3.01it/s]
Power Factorization: 62%	309/500 [01:53<01:03, 3.03it/s]
Power Factorization: 62%	310/500 [01:53<01:02, 3.03it/s]
Power Factorization: 62%	311/500 [01:53<01:05, 2.88it/s]
Power Factorization: 62%	312/500 [01:54<01:05, 2.89it/s]
Power Factorization: 63%	313/500 [01:54<01:05, 2.87it/s]
Power Factorization: 63%	314/500 [01:54<01:06, 2.78it/s]
Power Factorization: 63%	315/500 [01:55<01:06, 2.80it/s]
Power Factorization: 63%	316/500 [01:55<01:05, 2.82it/s]
Power Factorization: 63%	317/500 [01:55<01:05, 2.81it/s]
Power Factorization: 64%	318/500 [01:56<01:02, 2.90it/s]
Power Factorization: 64%	319/500 [01:56<01:02, 2.89it/s]
Power Factorization: 64%	320/500 [01:56<01:01, 2.95it/s]
Power Factorization: 64%	321/500 [01:57<01:01, 2.90it/s]
Power Factorization: 64%	322/500 [01:57<01:00, 2.93it/s]
Power Factorization: 65%	323/500 [01:57<01:04, 2.73it/s]
Power Factorization: 65%	324/500 [01:58<01:02, 2.82it/s]
Power Factorization: 65%	325/500 [01:58<00:59, 2.95it/s]
Power Factorization: 65%	326/500 [01:58<00:58, 2.99it/s]
Power Factorization: 65%	327/500 [01:59<00:58, 2.94it/s]

Power Factorization: 66%	328/500 [01:59<00:56, 3.03it/s]
Power Factorization: 66%	329/500 [01:59<00:57, 2.95it/s]
Power Factorization: 66%	330/500 [02:00<00:58, 2.88it/s]
Power Factorization: 66%	331/500 [02:00<00:58, 2.90it/s]
Power Factorization: 66%	332/500 [02:01<00:59, 2.81it/s]
Power Factorization: 67%	333/500 [02:01<01:02, 2.68it/s]
Power Factorization: 67%	334/500 [02:01<01:01, 2.68it/s]
Power Factorization: 67%	335/500 [02:02<00:59, 2.76it/s]
Power Factorization: 67%	336/500 [02:02<00:56, 2.89it/s]
Power Factorization: 67%	337/500 [02:02<00:57, 2.84it/s]
Power Factorization: 68%	338/500 [02:03<00:55, 2.93it/s]
Power Factorization: 68%	339/500 [02:03<00:54, 2.98it/s]
Power Factorization: 68%	340/500 [02:03<00:53, 3.00it/s]
Power Factorization: 68%	341/500 [02:04<00:52, 3.03it/s]
Power Factorization: 68%	342/500 [02:04<00:53, 2.95it/s]
Power Factorization: 69%	343/500 [02:04<00:53, 2.96it/s]
Power Factorization: 69%	344/500 [02:05<00:53, 2.92it/s]
Power Factorization: 69%	345/500 [02:05<00:53, 2.89it/s]
Power Factorization: 69%	346/500 [02:05<00:53, 2.89it/s]
Power Factorization: 69%	347/500 [02:06<00:53, 2.86it/s]
Power Factorization: 70%	348/500 [02:06<00:56, 2.69it/s]
Power Factorization: 70%	349/500 [02:07<00:55, 2.70it/s]
Power Factorization: 70%	350/500 [02:07<00:54, 2.75it/s]
Power Factorization: 70%	351/500 [02:07<00:54, 2.72it/s]

Power Factorization: 70%	352/500 [02:08<00:53, 2.77it/s]
Power Factorization: 71%	353/500 [02:08<00:52, 2.83it/s]
Power Factorization: 71%	354/500 [02:08<00:51, 2.85it/s]
Power Factorization: 71%	355/500 [02:09<00:50, 2.90it/s]
Power Factorization: 71%	356/500 [02:09<00:48, 2.96it/s]
Power Factorization: 71%	357/500 [02:09<00:48, 2.93it/s]
Power Factorization: 72%	358/500 [02:10<00:47, 3.01it/s]
Power Factorization: 72%	359/500 [02:10<00:50, 2.82it/s]
Power Factorization: 72%	360/500 [02:10<00:51, 2.74it/s]
Power Factorization: 72%	361/500 [02:11<00:48, 2.87it/s]
Power Factorization: 72%	362/500 [02:11<00:47, 2.88it/s]
Power Factorization: 73%	363/500 [02:11<00:47, 2.86it/s]
Power Factorization: 73%	364/500 [02:12<00:46, 2.90it/s]
Power Factorization: 73%	365/500 [02:12<00:46, 2.90it/s]
Power Factorization: 73%	366/500 [02:12<00:45, 2.97it/s]
Power Factorization: 73%	367/500 [02:13<00:43, 3.09it/s]
Power Factorization: 74%	368/500 [02:13<00:42, 3.07it/s]
Power Factorization: 74%	369/500 [02:13<00:42, 3.07it/s]
Power Factorization: 74%	370/500 [02:14<00:41, 3.12it/s]
Power Factorization: 74%	371/500 [02:14<00:42, 3.01it/s]
Power Factorization: 74%	372/500 [02:14<00:45, 2.81it/s]
Power Factorization: 75%	373/500 [02:15<00:45, 2.80it/s]
Power Factorization: 75%	374/500 [02:15<00:46, 2.69it/s]
Power Factorization: 75%	375/500 [02:16<00:47, 2.62it/s]

Power Factorization: 75%	376/500 [02:16<00:47, 2.62it/s]
Power Factorization: 75%	377/500 [02:16<00:45, 2.73it/s]
Power Factorization: 76%	378/500 [02:17<00:43, 2.81it/s]
Power Factorization: 76%	379/500 [02:17<00:44, 2.70it/s]
Power Factorization: 76%	380/500 [02:17<00:42, 2.85it/s]
Power Factorization: 76%	381/500 [02:18<00:41, 2.87it/s]
Power Factorization: 76%	382/500 [02:18<00:39, 2.96it/s]
Power Factorization: 77%	383/500 [02:18<00:39, 2.99it/s]
Power Factorization: 77%	384/500 [02:19<00:38, 2.97it/s]
Power Factorization: 77%	385/500 [02:19<00:39, 2.94it/s]
Power Factorization: 77%	386/500 [02:19<00:38, 2.94it/s]
Power Factorization: 77%	387/500 [02:20<00:39, 2.84it/s]
Power Factorization: 78%	388/500 [02:20<00:39, 2.87it/s]
Power Factorization: 78%	389/500 [02:20<00:38, 2.90it/s]
Power Factorization: 78%	390/500 [02:21<00:39, 2.80it/s]
Power Factorization: 78%	391/500 [02:21<00:39, 2.76it/s]
Power Factorization: 78%	392/500 [02:21<00:37, 2.89it/s]
Power Factorization: 79%	393/500 [02:22<00:37, 2.88it/s]
Power Factorization: 79%	394/500 [02:22<00:36, 2.87it/s]
Power Factorization: 79%	395/500 [02:23<00:37, 2.77it/s]
Power Factorization: 79%	396/500 [02:23<00:36, 2.82it/s]
Power Factorization: 79%	397/500 [02:23<00:36, 2.79it/s]
Power Factorization: 80%	398/500 [02:24<00:35, 2.84it/s]
Power Factorization: 80%	399/500 [02:24<00:35, 2.85it/s]

Power Factorization: 80%	400/500 [02:24<00:35,	2.82it/s]
Power Factorization: 80%	401/500 [02:25<00:34,	2.87it/s]
Power Factorization: 80%	402/500 [02:25<00:33,	2.89it/s]
Power Factorization: 81%	403/500 [02:25<00:33,	2.93it/s]
Power Factorization: 81%	404/500 [02:26<00:32,	2.99it/s]
Power Factorization: 81%	405/500 [02:26<00:31,	3.00it/s]
Power Factorization: 81%	406/500 [02:26<00:30,	3.05it/s]
Power Factorization: 81%	407/500 [02:27<00:30,	3.04it/s]
Power Factorization: 82%	408/500 [02:27<00:30,	3.02it/s]
Power Factorization: 82%	409/500 [02:27<00:29,	3.09it/s]
Power Factorization: 82%	410/500 [02:28<00:30,	2.98it/s]
Power Factorization: 82%	411/500 [02:28<00:30,	2.94it/s]
Power Factorization: 82%	412/500 [02:28<00:29,	2.99it/s]
Power Factorization: 83%	413/500 [02:29<00:30,	2.89it/s]
Power Factorization: 83%	414/500 [02:29<00:31,	2.75it/s]
Power Factorization: 83%	415/500 [02:29<00:31,	2.72it/s]
Power Factorization: 83%	416/500 [02:30<00:30,	2.78it/s]
Power Factorization: 83%	417/500 [02:30<00:30,	2.76it/s]
Power Factorization: 84%	418/500 [02:31<00:29,	2.77it/s]
Power Factorization: 84%	419/500 [02:31<00:28,	2.83it/s]
Power Factorization: 84%	420/500 [02:31<00:27,	2.89it/s]
Power Factorization: 84%	421/500 [02:32<00:26,	2.97it/s]
Power Factorization: 84%	422/500 [02:32<00:26,	2.95it/s]
Power Factorization: 85%	423/500 [02:32<00:26,	2.94it/s]

Power Factorization: 85%	424/500 [02:33<00:25,	3.00it/s]
Power Factorization: 85%	425/500 [02:33<00:24,	3.00it/s]
Power Factorization: 85%	426/500 [02:33<00:24,	3.03it/s]
Power Factorization: 85%	427/500 [02:34<00:24,	2.98it/s]
Power Factorization: 86%	428/500 [02:34<00:26,	2.76it/s]
Power Factorization: 86%	429/500 [02:34<00:25,	2.77it/s]
Power Factorization: 86%	430/500 [02:35<00:26,	2.63it/s]
Power Factorization: 86%	431/500 [02:35<00:26,	2.61it/s]
Power Factorization: 86%	432/500 [02:35<00:24,	2.77it/s]
Power Factorization: 87%	433/500 [02:36<00:23,	2.84it/s]
Power Factorization: 87%	434/500 [02:36<00:23,	2.85it/s]
Power Factorization: 87%	435/500 [02:36<00:23,	2.76it/s]
Power Factorization: 87%	436/500 [02:37<00:23,	2.71it/s]
Power Factorization: 87%	437/500 [02:37<00:22,	2.77it/s]
Power Factorization: 88%	438/500 [02:38<00:20,	2.96it/s]
Power Factorization: 88%	439/500 [02:38<00:20,	3.00it/s]
Power Factorization: 88%	440/500 [02:38<00:20,	2.97it/s]
Power Factorization: 88%	441/500 [02:39<00:19,	3.01it/s]
Power Factorization: 88%	442/500 [02:39<00:19,	2.99it/s]
Power Factorization: 89%	443/500 [02:39<00:19,	2.93it/s]
Power Factorization: 89%	444/500 [02:40<00:18,	2.95it/s]
Power Factorization: 89%	445/500 [02:40<00:18,	2.93it/s]
Power Factorization: 89%	446/500 [02:40<00:18,	2.85it/s]
Power Factorization: 89%	447/500 [02:41<00:18,	2.88it/s]

Power Factorization: 90%	448/500 [02:41<00:18,	2.83it/s]
Power Factorization: 90%	449/500 [02:41<00:17,	2.84it/s]
Power Factorization: 90%	450/500 [02:42<00:17,	2.94it/s]
Power Factorization: 90%	451/500 [02:42<00:16,	2.95it/s]
Power Factorization: 90%	452/500 [02:42<00:16,	2.99it/s]
Power Factorization: 91%	453/500 [02:43<00:15,	3.01it/s]
Power Factorization: 91%	454/500 [02:43<00:15,	3.01it/s]
Power Factorization: 91%	455/500 [02:43<00:14,	3.01it/s]
Power Factorization: 91%	456/500 [02:44<00:15,	2.91it/s]
Power Factorization: 91%	457/500 [02:44<00:14,	2.92it/s]
Power Factorization: 92%	458/500 [02:44<00:13,	3.04it/s]
Power Factorization: 92%	459/500 [02:45<00:12,	3.16it/s]
Power Factorization: 92%	460/500 [02:45<00:12,	3.08it/s]
Power Factorization: 92%	461/500 [02:45<00:13,	2.98it/s]
Power Factorization: 92%	462/500 [02:46<00:12,	2.99it/s]
Power Factorization: 93%	463/500 [02:46<00:12,	2.92it/s]
Power Factorization: 93%	464/500 [02:46<00:12,	2.98it/s]
Power Factorization: 93%	465/500 [02:47<00:12,	2.74it/s]
Power Factorization: 93%	466/500 [02:47<00:12,	2.69it/s]
Power Factorization: 93%	467/500 [02:47<00:11,	2.87it/s]
Power Factorization: 94%	468/500 [02:48<00:11,	2.77it/s]
Power Factorization: 94%	469/500 [02:48<00:11,	2.73it/s]
Power Factorization: 94%	470/500 [02:49<00:11,	2.68it/s]
Power Factorization: 94%	471/500 [02:49<00:10,	2.70it/s]

Power Factorization: 94%	472/500 [02:49<00:11, 2.46it/s]
Power Factorization: 95%	473/500 [02:50<00:10, 2.59it/s]
Power Factorization: 95%	474/500 [02:50<00:09, 2.66it/s]
Power Factorization: 95%	475/500 [02:50<00:09, 2.76it/s]
Power Factorization: 95%	476/500 [02:51<00:08, 2.82it/s]
Power Factorization: 95%	477/500 [02:51<00:07, 2.88it/s]
Power Factorization: 96%	478/500 [02:51<00:07, 2.89it/s]
Power Factorization: 96%	479/500 [02:52<00:07, 2.96it/s]
Power Factorization: 96%	480/500 [02:52<00:06, 2.97it/s]
Power Factorization: 96%	481/500 [02:52<00:06, 2.95it/s]
Power Factorization: 96%	482/500 [02:53<00:05, 3.00it/s]
Power Factorization: 97%	483/500 [02:53<00:05, 3.04it/s]
Power Factorization: 97%	484/500 [02:53<00:05, 3.11it/s]
Power Factorization: 97%	485/500 [02:54<00:04, 3.12it/s]
Power Factorization: 97%	486/500 [02:54<00:04, 3.09it/s]
Power Factorization: 97%	487/500 [02:54<00:04, 3.11it/s]
Power Factorization: 98%	488/500 [02:55<00:03, 3.15it/s]
Power Factorization: 98%	489/500 [02:55<00:03, 3.11it/s]
Power Factorization: 98%	490/500 [02:55<00:03, 3.11it/s]
Power Factorization: 98%	491/500 [02:56<00:02, 3.10it/s]
Power Factorization: 98%	492/500 [02:56<00:02, 3.11it/s]
Power Factorization: 99%	493/500 [02:56<00:02, 3.17it/s]
Power Factorization: 99%	494/500 [02:57<00:01, 3.20it/s]
Power Factorization: 99%	495/500 [02:57<00:01, 3.19it/s]

Power Factorization: 99%	496/500 [02:57<00:01, 3.16it/s]
Power Factorization: 99%	497/500 [02:58<00:00, 3.05it/s]
Power Factorization: 100%	498/500 [02:58<00:00, 3.06it/s]
Power Factorization: 100%	499/500 [02:58<00:00, 2.94it/s]
Power Factorization: 100%	500/500 [02:59<00:00, 2.79it/s]
Cross Validation: 20%	1/5 [02:59<11:56, 179.14s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:39, 3.13it/s]
Power Factorization: 0%	2/500 [00:00<03:12, 2.58it/s]
Power Factorization: 1%	3/500 [00:01<03:10, 2.61it/s]
Power Factorization: 1%	4/500 [00:01<03:07, 2.64it/s]
Power Factorization: 1%	5/500 [00:01<02:52, 2.88it/s]
Power Factorization: 1%	6/500 [00:02<02:49, 2.92it/s]
Power Factorization: 1%	7/500 [00:02<03:02, 2.70it/s]
Power Factorization: 2%	8/500 [00:02<02:57, 2.77it/s]
Power Factorization: 2%	9/500 [00:03<03:00, 2.72it/s]
Power Factorization: 2%	10/500 [00:03<02:53, 2.83it/s]
Power Factorization: 2%	11/500 [00:03<02:47, 2.92it/s]
Power Factorization: 2%	12/500 [00:04<02:41, 3.02it/s]
Power Factorization: 3%	13/500 [00:04<02:39, 3.05it/s]
Power Factorization: 3%	14/500 [00:04<02:38, 3.06it/s]
Power Factorization: 3%	15/500 [00:05<02:33, 3.15it/s]
Power Factorization: 3%	16/500 [00:05<02:30, 3.21it/s]
Power Factorization: 3%	17/500 [00:05<02:27, 3.28it/s]

Power Factorization:	4%	18/500	[00:06<02:32,	3.16it/s]
Power Factorization:	4%	19/500	[00:06<02:37,	3.06it/s]
Power Factorization:	4%	20/500	[00:06<02:32,	3.14it/s]
Power Factorization:	4%	21/500	[00:07<02:28,	3.23it/s]
Power Factorization:	4%	22/500	[00:07<02:32,	3.13it/s]
Power Factorization:	5%	23/500	[00:07<02:38,	3.01it/s]
Power Factorization:	5%	24/500	[00:08<02:43,	2.91it/s]
Power Factorization:	5%	25/500	[00:08<02:42,	2.93it/s]
Power Factorization:	5%	26/500	[00:08<02:51,	2.77it/s]
Power Factorization:	5%	27/500	[00:09<02:53,	2.73it/s]
Power Factorization:	6%	28/500	[00:09<02:45,	2.85it/s]
Power Factorization:	6%	29/500	[00:09<02:39,	2.96it/s]
Power Factorization:	6%	30/500	[00:10<02:37,	2.99it/s]
Power Factorization:	6%	31/500	[00:10<02:34,	3.03it/s]
Power Factorization:	6%	32/500	[00:10<02:32,	3.08it/s]
Power Factorization:	7%	33/500	[00:11<02:35,	3.01it/s]
Power Factorization:	7%	34/500	[00:11<02:37,	2.96it/s]
Power Factorization:	7%	35/500	[00:11<02:41,	2.87it/s]
Power Factorization:	7%	36/500	[00:12<02:35,	2.98it/s]
Power Factorization:	7%	37/500	[00:12<02:32,	3.03it/s]
Power Factorization:	8%	38/500	[00:12<02:32,	3.02it/s]
Power Factorization:	8%	39/500	[00:13<02:29,	3.09it/s]
Power Factorization:	8%	40/500	[00:13<02:29,	3.08it/s]
Power Factorization:	8%	41/500	[00:13<02:30,	3.05it/s]

Power Factorization:	8%	42/500 [00:14<02:30, 3.05it/s]
Power Factorization:	9%	43/500 [00:14<02:29, 3.05it/s]
Power Factorization:	9%	44/500 [00:14<02:31, 3.01it/s]
Power Factorization:	9%	45/500 [00:15<02:29, 3.04it/s]
Power Factorization:	9%	46/500 [00:15<02:33, 2.97it/s]
Power Factorization:	9%	47/500 [00:15<02:44, 2.76it/s]
Power Factorization:	10%	48/500 [00:16<02:40, 2.82it/s]
Power Factorization:	10%	49/500 [00:16<02:33, 2.93it/s]
Power Factorization:	10%	50/500 [00:16<02:39, 2.83it/s]
Power Factorization:	10%	51/500 [00:17<02:36, 2.87it/s]
Power Factorization:	10%	52/500 [00:17<02:35, 2.88it/s]
Power Factorization:	11%	53/500 [00:17<02:33, 2.90it/s]
Power Factorization:	11%	54/500 [00:18<02:34, 2.89it/s]
Power Factorization:	11%	55/500 [00:18<02:30, 2.95it/s]
Power Factorization:	11%	56/500 [00:18<02:27, 3.01it/s]
Power Factorization:	11%	57/500 [00:19<02:30, 2.94it/s]
Power Factorization:	12%	58/500 [00:19<02:32, 2.90it/s]
Power Factorization:	12%	59/500 [00:19<02:28, 2.98it/s]
Power Factorization:	12%	60/500 [00:20<02:30, 2.92it/s]
Power Factorization:	12%	61/500 [00:20<02:25, 3.02it/s]
Power Factorization:	12%	62/500 [00:20<02:24, 3.04it/s]
Power Factorization:	13%	63/500 [00:21<02:29, 2.92it/s]
Power Factorization:	13%	64/500 [00:21<02:27, 2.95it/s]
Power Factorization:	13%	65/500 [00:22<02:29, 2.91it/s]

Power Factorization: 13%	66/500 [00:22<02:32, 2.85it/s]
Power Factorization: 13%	67/500 [00:22<02:27, 2.93it/s]
Power Factorization: 14%	68/500 [00:23<02:28, 2.91it/s]
Power Factorization: 14%	69/500 [00:23<02:31, 2.85it/s]
Power Factorization: 14%	70/500 [00:23<02:33, 2.80it/s]
Power Factorization: 14%	71/500 [00:24<02:33, 2.79it/s]
Power Factorization: 14%	72/500 [00:24<02:30, 2.84it/s]
Power Factorization: 15%	73/500 [00:24<02:26, 2.91it/s]
Power Factorization: 15%	74/500 [00:25<02:31, 2.81it/s]
Power Factorization: 15%	75/500 [00:25<02:27, 2.88it/s]
Power Factorization: 15%	76/500 [00:25<02:24, 2.93it/s]
Power Factorization: 15%	77/500 [00:26<02:23, 2.94it/s]
Power Factorization: 16%	78/500 [00:26<02:21, 2.98it/s]
Power Factorization: 16%	79/500 [00:26<02:18, 3.03it/s]
Power Factorization: 16%	80/500 [00:27<02:24, 2.90it/s]
Power Factorization: 16%	81/500 [00:27<02:25, 2.88it/s]
Power Factorization: 16%	82/500 [00:27<02:21, 2.96it/s]
Power Factorization: 17%	83/500 [00:28<02:17, 3.04it/s]
Power Factorization: 17%	84/500 [00:28<02:19, 2.99it/s]
Power Factorization: 17%	85/500 [00:28<02:18, 3.00it/s]
Power Factorization: 17%	86/500 [00:29<02:18, 2.98it/s]
Power Factorization: 17%	87/500 [00:29<02:17, 3.00it/s]
Power Factorization: 18%	88/500 [00:29<02:15, 3.04it/s]
Power Factorization: 18%	89/500 [00:30<02:16, 3.01it/s]

Power Factorization: 18%	90/500 [00:30<02:21, 2.90it/s]
Power Factorization: 18%	91/500 [00:30<02:18, 2.96it/s]
Power Factorization: 18%	92/500 [00:31<02:16, 2.99it/s]
Power Factorization: 19%	93/500 [00:31<02:26, 2.78it/s]
Power Factorization: 19%	94/500 [00:32<02:29, 2.71it/s]
Power Factorization: 19%	95/500 [00:32<02:23, 2.81it/s]
Power Factorization: 19%	96/500 [00:32<02:25, 2.78it/s]
Power Factorization: 19%	97/500 [00:33<02:24, 2.79it/s]
Power Factorization: 20%	98/500 [00:33<02:18, 2.89it/s]
Power Factorization: 20%	99/500 [00:33<02:16, 2.93it/s]
Power Factorization: 20%	100/500 [00:34<02:16, 2.92it/s]
Power Factorization: 20%	101/500 [00:34<02:16, 2.93it/s]
Power Factorization: 20%	102/500 [00:34<02:16, 2.93it/s]
Power Factorization: 21%	103/500 [00:35<02:12, 3.00it/s]
Power Factorization: 21%	104/500 [00:35<02:12, 2.98it/s]
Power Factorization: 21%	105/500 [00:35<02:12, 2.99it/s]
Power Factorization: 21%	106/500 [00:36<02:13, 2.96it/s]
Power Factorization: 21%	107/500 [00:36<02:14, 2.91it/s]
Power Factorization: 22%	108/500 [00:36<02:12, 2.97it/s]
Power Factorization: 22%	109/500 [00:37<02:11, 2.98it/s]
Power Factorization: 22%	110/500 [00:37<02:10, 2.98it/s]
Power Factorization: 22%	111/500 [00:37<02:07, 3.04it/s]
Power Factorization: 22%	112/500 [00:38<02:14, 2.89it/s]
Power Factorization: 23%	113/500 [00:38<02:10, 2.97it/s]

Power Factorization: 23%	114/500 [00:38<02:10, 2.96it/s]
Power Factorization: 23%	115/500 [00:39<02:17, 2.81it/s]
Power Factorization: 23%	116/500 [00:39<02:12, 2.91it/s]
Power Factorization: 23%	117/500 [00:39<02:06, 3.03it/s]
Power Factorization: 24%	118/500 [00:40<02:01, 3.14it/s]
Power Factorization: 24%	119/500 [00:40<02:01, 3.13it/s]
Power Factorization: 24%	120/500 [00:40<02:04, 3.04it/s]
Power Factorization: 24%	121/500 [00:41<02:08, 2.95it/s]
Power Factorization: 24%	122/500 [00:41<02:11, 2.86it/s]
Power Factorization: 25%	123/500 [00:41<02:11, 2.87it/s]
Power Factorization: 25%	124/500 [00:42<02:12, 2.85it/s]
Power Factorization: 25%	125/500 [00:42<02:10, 2.88it/s]
Power Factorization: 25%	126/500 [00:42<02:06, 2.96it/s]
Power Factorization: 25%	127/500 [00:43<02:07, 2.92it/s]
Power Factorization: 26%	128/500 [00:43<02:06, 2.95it/s]
Power Factorization: 26%	129/500 [00:43<02:15, 2.74it/s]
Power Factorization: 26%	130/500 [00:44<02:21, 2.61it/s]
Power Factorization: 26%	131/500 [00:44<02:14, 2.75it/s]
Power Factorization: 26%	132/500 [00:45<02:07, 2.89it/s]
Power Factorization: 27%	133/500 [00:45<02:03, 2.96it/s]
Power Factorization: 27%	134/500 [00:45<02:00, 3.04it/s]
Power Factorization: 27%	135/500 [00:45<02:02, 2.97it/s]
Power Factorization: 27%	136/500 [00:46<02:07, 2.85it/s]
Power Factorization: 27%	137/500 [00:46<02:05, 2.90it/s]

Power Factorization: 28%	138/500 [00:47<02:02, 2.95it/s]
Power Factorization: 28%	139/500 [00:47<02:05, 2.88it/s]
Power Factorization: 28%	140/500 [00:47<02:04, 2.89it/s]
Power Factorization: 28%	141/500 [00:48<01:59, 3.00it/s]
Power Factorization: 28%	142/500 [00:48<02:04, 2.88it/s]
Power Factorization: 29%	143/500 [00:48<02:03, 2.89it/s]
Power Factorization: 29%	144/500 [00:49<02:06, 2.81it/s]
Power Factorization: 29%	145/500 [00:49<02:07, 2.78it/s]
Power Factorization: 29%	146/500 [00:49<02:05, 2.83it/s]
Power Factorization: 29%	147/500 [00:50<02:02, 2.87it/s]
Power Factorization: 30%	148/500 [00:50<02:03, 2.86it/s]
Power Factorization: 30%	149/500 [00:50<01:59, 2.94it/s]
Power Factorization: 30%	150/500 [00:51<02:02, 2.85it/s]
Power Factorization: 30%	151/500 [00:51<02:04, 2.80it/s]
Power Factorization: 30%	152/500 [00:51<02:07, 2.73it/s]
Power Factorization: 31%	153/500 [00:52<02:07, 2.71it/s]
Power Factorization: 31%	154/500 [00:52<02:01, 2.85it/s]
Power Factorization: 31%	155/500 [00:53<01:59, 2.88it/s]
Power Factorization: 31%	156/500 [00:53<01:55, 2.97it/s]
Power Factorization: 31%	157/500 [00:53<02:00, 2.85it/s]
Power Factorization: 32%	158/500 [00:54<01:59, 2.86it/s]
Power Factorization: 32%	159/500 [00:54<01:54, 2.99it/s]
Power Factorization: 32%	160/500 [00:54<01:52, 3.02it/s]
Power Factorization: 32%	161/500 [00:54<01:48, 3.12it/s]

Power Factorization: 32%	162/500 [00:55<01:48, 3.11it/s]
Power Factorization: 33%	163/500 [00:55<01:47, 3.15it/s]
Power Factorization: 33%	164/500 [00:55<01:47, 3.11it/s]
Power Factorization: 33%	165/500 [00:56<01:48, 3.08it/s]
Power Factorization: 33%	166/500 [00:56<01:49, 3.05it/s]
Power Factorization: 33%	167/500 [00:56<01:49, 3.03it/s]
Power Factorization: 34%	168/500 [00:57<01:49, 3.02it/s]
Power Factorization: 34%	169/500 [00:57<01:47, 3.07it/s]
Power Factorization: 34%	170/500 [00:57<01:50, 2.99it/s]
Power Factorization: 34%	171/500 [00:58<01:47, 3.06it/s]
Power Factorization: 34%	172/500 [00:58<01:48, 3.01it/s]
Power Factorization: 35%	173/500 [00:58<01:47, 3.04it/s]
Power Factorization: 35%	174/500 [00:59<01:50, 2.96it/s]
Power Factorization: 35%	175/500 [00:59<01:51, 2.91it/s]
Power Factorization: 35%	176/500 [00:59<01:52, 2.88it/s]
Power Factorization: 35%	177/500 [01:00<01:54, 2.82it/s]
Power Factorization: 36%	178/500 [01:00<01:53, 2.83it/s]
Power Factorization: 36%	179/500 [01:01<01:48, 2.96it/s]
Power Factorization: 36%	180/500 [01:01<01:45, 3.05it/s]
Power Factorization: 36%	181/500 [01:01<01:57, 2.71it/s]
Power Factorization: 36%	182/500 [01:02<02:00, 2.64it/s]
Power Factorization: 37%	183/500 [01:02<01:56, 2.72it/s]
Power Factorization: 37%	184/500 [01:02<01:53, 2.79it/s]
Power Factorization: 37%	185/500 [01:03<01:48, 2.91it/s]

Power Factorization: 37%	186/500 [01:03<01:44,	3.00it/s]
Power Factorization: 37%	187/500 [01:03<01:45,	2.97it/s]
Power Factorization: 38%	188/500 [01:04<01:46,	2.93it/s]
Power Factorization: 38%	189/500 [01:04<01:50,	2.81it/s]
Power Factorization: 38%	190/500 [01:04<01:48,	2.85it/s]
Power Factorization: 38%	191/500 [01:05<01:51,	2.78it/s]
Power Factorization: 38%	192/500 [01:05<01:48,	2.85it/s]
Power Factorization: 39%	193/500 [01:05<01:45,	2.92it/s]
Power Factorization: 39%	194/500 [01:06<01:44,	2.93it/s]
Power Factorization: 39%	195/500 [01:06<01:43,	2.95it/s]
Power Factorization: 39%	196/500 [01:06<01:41,	3.00it/s]
Power Factorization: 39%	197/500 [01:07<01:42,	2.95it/s]
Power Factorization: 40%	198/500 [01:07<01:44,	2.88it/s]
Power Factorization: 40%	199/500 [01:08<01:48,	2.77it/s]
Power Factorization: 40%	200/500 [01:08<01:45,	2.83it/s]
Power Factorization: 40%	201/500 [01:08<01:43,	2.90it/s]
Power Factorization: 40%	202/500 [01:09<01:41,	2.95it/s]
Power Factorization: 41%	203/500 [01:09<01:39,	3.00it/s]
Power Factorization: 41%	204/500 [01:09<01:42,	2.87it/s]
Power Factorization: 41%	205/500 [01:10<01:42,	2.89it/s]
Power Factorization: 41%	206/500 [01:10<01:36,	3.03it/s]
Power Factorization: 41%	207/500 [01:10<01:34,	3.10it/s]
Power Factorization: 42%	208/500 [01:11<01:38,	2.96it/s]
Power Factorization: 42%	209/500 [01:11<01:37,	2.98it/s]

Power Factorization: 42%	210/500 [01:11<01:36, 2.99it/s]
Power Factorization: 42%	211/500 [01:12<01:38, 2.93it/s]
Power Factorization: 42%	212/500 [01:12<01:37, 2.95it/s]
Power Factorization: 43%	213/500 [01:12<01:35, 3.00it/s]
Power Factorization: 43%	214/500 [01:13<01:36, 2.98it/s]
Power Factorization: 43%	215/500 [01:13<01:38, 2.88it/s]
Power Factorization: 43%	216/500 [01:13<01:39, 2.85it/s]
Power Factorization: 43%	217/500 [01:14<01:37, 2.90it/s]
Power Factorization: 44%	218/500 [01:14<01:35, 2.94it/s]
Power Factorization: 44%	219/500 [01:14<01:37, 2.89it/s]
Power Factorization: 44%	220/500 [01:15<01:37, 2.87it/s]
Power Factorization: 44%	221/500 [01:15<01:43, 2.69it/s]
Power Factorization: 44%	222/500 [01:15<01:37, 2.84it/s]
Power Factorization: 45%	223/500 [01:16<01:36, 2.88it/s]
Power Factorization: 45%	224/500 [01:16<01:37, 2.83it/s]
Power Factorization: 45%	225/500 [01:16<01:37, 2.83it/s]
Power Factorization: 45%	226/500 [01:17<01:41, 2.71it/s]
Power Factorization: 45%	227/500 [01:17<01:36, 2.82it/s]
Power Factorization: 46%	228/500 [01:17<01:32, 2.94it/s]
Power Factorization: 46%	229/500 [01:18<01:30, 2.98it/s]
Power Factorization: 46%	230/500 [01:18<01:29, 3.00it/s]
Power Factorization: 46%	231/500 [01:18<01:30, 2.96it/s]
Power Factorization: 46%	232/500 [01:19<01:28, 3.01it/s]
Power Factorization: 47%	233/500 [01:19<01:31, 2.91it/s]

Power Factorization: 47%	234/500 [01:20<01:30, 2.93it/s]
Power Factorization: 47%	235/500 [01:20<01:30, 2.92it/s]
Power Factorization: 47%	236/500 [01:20<01:31, 2.89it/s]
Power Factorization: 47%	237/500 [01:21<01:40, 2.62it/s]
Power Factorization: 48%	238/500 [01:21<01:35, 2.75it/s]
Power Factorization: 48%	239/500 [01:21<01:32, 2.81it/s]
Power Factorization: 48%	240/500 [01:22<01:28, 2.94it/s]
Power Factorization: 48%	241/500 [01:22<01:31, 2.82it/s]
Power Factorization: 48%	242/500 [01:23<01:40, 2.58it/s]
Power Factorization: 49%	243/500 [01:23<01:34, 2.71it/s]
Power Factorization: 49%	244/500 [01:23<01:30, 2.84it/s]
Power Factorization: 49%	245/500 [01:23<01:24, 3.00it/s]
Power Factorization: 49%	246/500 [01:24<01:23, 3.03it/s]
Power Factorization: 49%	247/500 [01:24<01:23, 3.03it/s]
Power Factorization: 50%	248/500 [01:24<01:25, 2.95it/s]
Power Factorization: 50%	249/500 [01:25<01:24, 2.95it/s]
Power Factorization: 50%	250/500 [01:25<01:26, 2.89it/s]
Power Factorization: 50%	251/500 [01:25<01:22, 3.03it/s]
Power Factorization: 50%	252/500 [01:26<01:21, 3.03it/s]
Power Factorization: 51%	253/500 [01:26<01:24, 2.92it/s]
Power Factorization: 51%	254/500 [01:26<01:24, 2.90it/s]
Power Factorization: 51%	255/500 [01:27<01:29, 2.74it/s]
Power Factorization: 51%	256/500 [01:27<01:24, 2.89it/s]
Power Factorization: 51%	257/500 [01:28<01:21, 2.96it/s]

Power Factorization: 52%	258/500 [01:28<01:22, 2.94it/s]
Power Factorization: 52%	259/500 [01:28<01:20, 3.00it/s]
Power Factorization: 52%	260/500 [01:29<01:20, 2.99it/s]
Power Factorization: 52%	261/500 [01:29<01:19, 3.00it/s]
Power Factorization: 52%	262/500 [01:29<01:24, 2.83it/s]
Power Factorization: 53%	263/500 [01:30<01:24, 2.80it/s]
Power Factorization: 53%	264/500 [01:30<01:23, 2.83it/s]
Power Factorization: 53%	265/500 [01:30<01:26, 2.70it/s]
Power Factorization: 53%	266/500 [01:31<01:30, 2.58it/s]
Power Factorization: 53%	267/500 [01:31<01:25, 2.73it/s]
Power Factorization: 54%	268/500 [01:31<01:23, 2.77it/s]
Power Factorization: 54%	269/500 [01:32<01:22, 2.79it/s]
Power Factorization: 54%	270/500 [01:32<01:19, 2.89it/s]
Power Factorization: 54%	271/500 [01:32<01:19, 2.89it/s]
Power Factorization: 54%	272/500 [01:33<01:16, 2.98it/s]
Power Factorization: 55%	273/500 [01:33<01:14, 3.05it/s]
Power Factorization: 55%	274/500 [01:33<01:17, 2.93it/s]
Power Factorization: 55%	275/500 [01:34<01:17, 2.90it/s]
Power Factorization: 55%	276/500 [01:34<01:15, 2.98it/s]
Power Factorization: 55%	277/500 [01:35<01:18, 2.82it/s]
Power Factorization: 56%	278/500 [01:35<01:18, 2.83it/s]
Power Factorization: 56%	279/500 [01:35<01:16, 2.89it/s]
Power Factorization: 56%	280/500 [01:36<01:16, 2.89it/s]
Power Factorization: 56%	281/500 [01:36<01:16, 2.88it/s]

Power Factorization: 56%	282/500 [01:36<01:16, 2.86it/s]
Power Factorization: 57%	283/500 [01:37<01:16, 2.83it/s]
Power Factorization: 57%	284/500 [01:37<01:15, 2.85it/s]
Power Factorization: 57%	285/500 [01:37<01:16, 2.80it/s]
Power Factorization: 57%	286/500 [01:38<01:14, 2.87it/s]
Power Factorization: 57%	287/500 [01:38<01:13, 2.88it/s]
Power Factorization: 58%	288/500 [01:38<01:12, 2.90it/s]
Power Factorization: 58%	289/500 [01:39<01:14, 2.84it/s]
Power Factorization: 58%	290/500 [01:39<01:13, 2.87it/s]
Power Factorization: 58%	291/500 [01:39<01:11, 2.93it/s]
Power Factorization: 58%	292/500 [01:40<01:09, 2.99it/s]
Power Factorization: 59%	293/500 [01:40<01:09, 2.97it/s]
Power Factorization: 59%	294/500 [01:40<01:11, 2.90it/s]
Power Factorization: 59%	295/500 [01:41<01:09, 2.97it/s]
Power Factorization: 59%	296/500 [01:41<01:09, 2.93it/s]
Power Factorization: 59%	297/500 [01:41<01:10, 2.90it/s]
Power Factorization: 60%	298/500 [01:42<01:07, 2.97it/s]
Power Factorization: 60%	299/500 [01:42<01:07, 2.99it/s]
Power Factorization: 60%	300/500 [01:42<01:06, 2.99it/s]
Power Factorization: 60%	301/500 [01:43<01:04, 3.08it/s]
Power Factorization: 60%	302/500 [01:43<01:03, 3.11it/s]
Power Factorization: 61%	303/500 [01:43<01:02, 3.17it/s]
Power Factorization: 61%	304/500 [01:44<01:04, 3.06it/s]
Power Factorization: 61%	305/500 [01:44<01:04, 3.01it/s]

Power Factorization: 61%	306/500 [01:44<01:03, 3.08it/s]
Power Factorization: 61%	307/500 [01:45<01:03, 3.03it/s]
Power Factorization: 62%	308/500 [01:45<01:06, 2.91it/s]
Power Factorization: 62%	309/500 [01:45<01:05, 2.93it/s]
Power Factorization: 62%	310/500 [01:46<01:06, 2.86it/s]
Power Factorization: 62%	311/500 [01:46<01:05, 2.91it/s]
Power Factorization: 62%	312/500 [01:46<01:06, 2.82it/s]
Power Factorization: 63%	313/500 [01:47<01:04, 2.89it/s]
Power Factorization: 63%	314/500 [01:47<01:05, 2.82it/s]
Power Factorization: 63%	315/500 [01:47<01:03, 2.93it/s]
Power Factorization: 63%	316/500 [01:48<01:04, 2.84it/s]
Power Factorization: 63%	317/500 [01:48<01:01, 2.96it/s]
Power Factorization: 64%	318/500 [01:49<01:03, 2.85it/s]
Power Factorization: 64%	319/500 [01:49<01:02, 2.91it/s]
Power Factorization: 64%	320/500 [01:49<01:01, 2.92it/s]
Power Factorization: 64%	321/500 [01:50<01:00, 2.95it/s]
Power Factorization: 64%	322/500 [01:50<01:01, 2.91it/s]
Power Factorization: 65%	323/500 [01:50<01:01, 2.89it/s]
Power Factorization: 65%	324/500 [01:51<01:00, 2.89it/s]
Power Factorization: 65%	325/500 [01:51<00:59, 2.94it/s]
Power Factorization: 65%	326/500 [01:51<01:00, 2.86it/s]
Power Factorization: 65%	327/500 [01:52<01:01, 2.82it/s]
Power Factorization: 66%	328/500 [01:52<00:59, 2.87it/s]
Power Factorization: 66%	329/500 [01:52<00:59, 2.89it/s]

Power Factorization: 66%	330/500 [01:53<00:58, 2.91it/s]
Power Factorization: 66%	331/500 [01:53<00:57, 2.92it/s]
Power Factorization: 66%	332/500 [01:53<00:55, 3.00it/s]
Power Factorization: 67%	333/500 [01:54<00:55, 2.98it/s]
Power Factorization: 67%	334/500 [01:54<00:54, 3.04it/s]
Power Factorization: 67%	335/500 [01:54<00:56, 2.95it/s]
Power Factorization: 67%	336/500 [01:55<01:00, 2.70it/s]
Power Factorization: 67%	337/500 [01:55<01:02, 2.60it/s]
Power Factorization: 68%	338/500 [01:56<01:00, 2.69it/s]
Power Factorization: 68%	339/500 [01:56<00:58, 2.76it/s]
Power Factorization: 68%	340/500 [01:56<00:56, 2.81it/s]
Power Factorization: 68%	341/500 [01:57<01:00, 2.64it/s]
Power Factorization: 68%	342/500 [01:57<01:00, 2.62it/s]
Power Factorization: 69%	343/500 [01:57<00:57, 2.72it/s]
Power Factorization: 69%	344/500 [01:58<00:57, 2.73it/s]
Power Factorization: 69%	345/500 [01:58<00:54, 2.84it/s]
Power Factorization: 69%	346/500 [01:58<00:52, 2.92it/s]
Power Factorization: 69%	347/500 [01:59<00:51, 3.00it/s]
Power Factorization: 70%	348/500 [01:59<00:48, 3.16it/s]
Power Factorization: 70%	349/500 [01:59<00:50, 3.02it/s]
Power Factorization: 70%	350/500 [02:00<00:51, 2.89it/s]
Power Factorization: 70%	351/500 [02:00<00:55, 2.71it/s]
Power Factorization: 70%	352/500 [02:00<00:53, 2.78it/s]
Power Factorization: 71%	353/500 [02:01<00:52, 2.79it/s]

Power Factorization: 71%	354/500 [02:01<00:50, 2.88it/s]
Power Factorization: 71%	355/500 [02:01<00:49, 2.94it/s]
Power Factorization: 71%	356/500 [02:02<00:48, 2.94it/s]
Power Factorization: 71%	357/500 [02:02<00:47, 3.02it/s]
Power Factorization: 72%	358/500 [02:02<00:47, 2.99it/s]
Power Factorization: 72%	359/500 [02:03<00:47, 2.94it/s]
Power Factorization: 72%	360/500 [02:03<00:48, 2.90it/s]
Power Factorization: 72%	361/500 [02:04<00:47, 2.90it/s]
Power Factorization: 72%	362/500 [02:04<00:47, 2.90it/s]
Power Factorization: 73%	363/500 [02:04<00:46, 2.94it/s]
Power Factorization: 73%	364/500 [02:05<00:45, 2.98it/s]
Power Factorization: 73%	365/500 [02:05<00:45, 3.00it/s]
Power Factorization: 73%	366/500 [02:05<00:44, 3.03it/s]
Power Factorization: 73%	367/500 [02:06<00:44, 3.00it/s]
Power Factorization: 74%	368/500 [02:06<00:45, 2.92it/s]
Power Factorization: 74%	369/500 [02:06<00:45, 2.85it/s]
Power Factorization: 74%	370/500 [02:07<00:44, 2.94it/s]
Power Factorization: 74%	371/500 [02:07<00:44, 2.88it/s]
Power Factorization: 74%	372/500 [02:07<00:43, 2.92it/s]
Power Factorization: 75%	373/500 [02:08<00:43, 2.90it/s]
Power Factorization: 75%	374/500 [02:08<00:44, 2.81it/s]
Power Factorization: 75%	375/500 [02:08<00:45, 2.74it/s]
Power Factorization: 75%	376/500 [02:09<00:44, 2.76it/s]
Power Factorization: 75%	377/500 [02:09<00:44, 2.76it/s]

Power Factorization: 76%	378/500 [02:09<00:44,	2.72it/s]
Power Factorization: 76%	379/500 [02:10<00:42,	2.84it/s]
Power Factorization: 76%	380/500 [02:10<00:41,	2.91it/s]
Power Factorization: 76%	381/500 [02:10<00:42,	2.83it/s]
Power Factorization: 76%	382/500 [02:11<00:41,	2.87it/s]
Power Factorization: 77%	383/500 [02:11<00:39,	2.95it/s]
Power Factorization: 77%	384/500 [02:11<00:39,	2.92it/s]
Power Factorization: 77%	385/500 [02:12<00:38,	3.01it/s]
Power Factorization: 77%	386/500 [02:12<00:37,	3.03it/s]
Power Factorization: 77%	387/500 [02:12<00:35,	3.14it/s]
Power Factorization: 78%	388/500 [02:13<00:36,	3.04it/s]
Power Factorization: 78%	389/500 [02:13<00:37,	2.94it/s]
Power Factorization: 78%	390/500 [02:13<00:37,	2.96it/s]
Power Factorization: 78%	391/500 [02:14<00:37,	2.92it/s]
Power Factorization: 78%	392/500 [02:14<00:38,	2.81it/s]
Power Factorization: 79%	393/500 [02:15<00:40,	2.65it/s]
Power Factorization: 79%	394/500 [02:15<00:38,	2.75it/s]
Power Factorization: 79%	395/500 [02:15<00:36,	2.85it/s]
Power Factorization: 79%	396/500 [02:16<00:36,	2.84it/s]
Power Factorization: 79%	397/500 [02:16<00:35,	2.88it/s]
Power Factorization: 80%	398/500 [02:16<00:35,	2.85it/s]
Power Factorization: 80%	399/500 [02:17<00:35,	2.85it/s]
Power Factorization: 80%	400/500 [02:17<00:36,	2.77it/s]
Power Factorization: 80%	401/500 [02:17<00:36,	2.75it/s]

Power Factorization: 80%	402/500 [02:18<00:34,	2.85it/s]
Power Factorization: 81%	403/500 [02:18<00:34,	2.81it/s]
Power Factorization: 81%	404/500 [02:18<00:34,	2.81it/s]
Power Factorization: 81%	405/500 [02:19<00:32,	2.92it/s]
Power Factorization: 81%	406/500 [02:19<00:34,	2.70it/s]
Power Factorization: 81%	407/500 [02:20<00:35,	2.59it/s]
Power Factorization: 82%	408/500 [02:20<00:33,	2.72it/s]
Power Factorization: 82%	409/500 [02:20<00:33,	2.71it/s]
Power Factorization: 82%	410/500 [02:21<00:33,	2.68it/s]
Power Factorization: 82%	411/500 [02:21<00:32,	2.71it/s]
Power Factorization: 82%	412/500 [02:21<00:32,	2.71it/s]
Power Factorization: 83%	413/500 [02:22<00:31,	2.77it/s]
Power Factorization: 83%	414/500 [02:22<00:30,	2.81it/s]
Power Factorization: 83%	415/500 [02:22<00:29,	2.89it/s]
Power Factorization: 83%	416/500 [02:23<00:29,	2.88it/s]
Power Factorization: 83%	417/500 [02:23<00:28,	2.93it/s]
Power Factorization: 84%	418/500 [02:24<00:28,	2.92it/s]
Power Factorization: 84%	419/500 [02:24<00:26,	3.02it/s]
Power Factorization: 84%	420/500 [02:24<00:28,	2.85it/s]
Power Factorization: 84%	421/500 [02:25<00:28,	2.74it/s]
Power Factorization: 84%	422/500 [02:25<00:27,	2.81it/s]
Power Factorization: 85%	423/500 [02:25<00:27,	2.82it/s]
Power Factorization: 85%	424/500 [02:26<00:25,	2.95it/s]
Power Factorization: 85%	425/500 [02:26<00:25,	3.00it/s]

Power Factorization: 85%	426/500 [02:26<00:24,	2.98it/s]
Power Factorization: 85%	427/500 [02:27<00:24,	2.99it/s]
Power Factorization: 86%	428/500 [02:27<00:24,	2.99it/s]
Power Factorization: 86%	429/500 [02:27<00:23,	3.00it/s]
Power Factorization: 86%	430/500 [02:28<00:23,	3.04it/s]
Power Factorization: 86%	431/500 [02:28<00:23,	2.94it/s]
Power Factorization: 86%	432/500 [02:28<00:23,	2.91it/s]
Power Factorization: 87%	433/500 [02:29<00:22,	2.96it/s]
Power Factorization: 87%	434/500 [02:29<00:22,	2.89it/s]
Power Factorization: 87%	435/500 [02:29<00:23,	2.82it/s]
Power Factorization: 87%	436/500 [02:30<00:22,	2.86it/s]
Power Factorization: 87%	437/500 [02:30<00:22,	2.77it/s]
Power Factorization: 88%	438/500 [02:30<00:22,	2.73it/s]
Power Factorization: 88%	439/500 [02:31<00:21,	2.77it/s]
Power Factorization: 88%	440/500 [02:31<00:21,	2.82it/s]
Power Factorization: 88%	441/500 [02:31<00:20,	2.83it/s]
Power Factorization: 88%	442/500 [02:32<00:20,	2.81it/s]
Power Factorization: 89%	443/500 [02:32<00:19,	2.93it/s]
Power Factorization: 89%	444/500 [02:33<00:19,	2.85it/s]
Power Factorization: 89%	445/500 [02:33<00:18,	2.95it/s]
Power Factorization: 89%	446/500 [02:33<00:18,	2.96it/s]
Power Factorization: 89%	447/500 [02:34<00:17,	2.97it/s]
Power Factorization: 90%	448/500 [02:34<00:17,	2.96it/s]
Power Factorization: 90%	449/500 [02:34<00:17,	2.85it/s]

Power Factorization: 90%	450/500 [02:35<00:18, 2.68it/s]
Power Factorization: 90%	451/500 [02:35<00:18, 2.67it/s]
Power Factorization: 90%	452/500 [02:35<00:18, 2.66it/s]
Power Factorization: 91%	453/500 [02:36<00:17, 2.74it/s]
Power Factorization: 91%	454/500 [02:36<00:16, 2.85it/s]
Power Factorization: 91%	455/500 [02:36<00:15, 2.93it/s]
Power Factorization: 91%	456/500 [02:37<00:15, 2.82it/s]
Power Factorization: 91%	457/500 [02:37<00:15, 2.73it/s]
Power Factorization: 92%	458/500 [02:38<00:16, 2.61it/s]
Power Factorization: 92%	459/500 [02:38<00:15, 2.68it/s]
Power Factorization: 92%	460/500 [02:38<00:14, 2.81it/s]
Power Factorization: 92%	461/500 [02:39<00:13, 2.89it/s]
Power Factorization: 92%	462/500 [02:39<00:12, 2.93it/s]
Power Factorization: 93%	463/500 [02:39<00:12, 2.92it/s]
Power Factorization: 93%	464/500 [02:40<00:12, 2.87it/s]
Power Factorization: 93%	465/500 [02:40<00:11, 2.98it/s]
Power Factorization: 93%	466/500 [02:40<00:11, 2.95it/s]
Power Factorization: 93%	467/500 [02:41<00:11, 2.88it/s]
Power Factorization: 94%	468/500 [02:41<00:11, 2.87it/s]
Power Factorization: 94%	469/500 [02:41<00:10, 2.85it/s]
Power Factorization: 94%	470/500 [02:42<00:10, 2.91it/s]
Power Factorization: 94%	471/500 [02:42<00:11, 2.62it/s]
Power Factorization: 94%	472/500 [02:43<00:10, 2.65it/s]
Power Factorization: 95%	473/500 [02:43<00:10, 2.67it/s]

Power Factorization: 95%	474/500 [02:43<00:09, 2.74it/s]
Power Factorization: 95%	475/500 [02:44<00:09, 2.72it/s]
Power Factorization: 95%	476/500 [02:44<00:08, 2.69it/s]
Power Factorization: 95%	477/500 [02:44<00:08, 2.70it/s]
Power Factorization: 96%	478/500 [02:45<00:08, 2.68it/s]
Power Factorization: 96%	479/500 [02:45<00:07, 2.77it/s]
Power Factorization: 96%	480/500 [02:45<00:07, 2.77it/s]
Power Factorization: 96%	481/500 [02:46<00:06, 2.77it/s]
Power Factorization: 96%	482/500 [02:46<00:06, 2.81it/s]
Power Factorization: 97%	483/500 [02:46<00:05, 2.88it/s]
Power Factorization: 97%	484/500 [02:47<00:05, 2.91it/s]
Power Factorization: 97%	485/500 [02:47<00:05, 2.98it/s]
Power Factorization: 97%	486/500 [02:47<00:04, 3.03it/s]
Power Factorization: 97%	487/500 [02:48<00:04, 2.97it/s]
Power Factorization: 98%	488/500 [02:48<00:04, 2.84it/s]
Power Factorization: 98%	489/500 [02:49<00:04, 2.69it/s]
Power Factorization: 98%	490/500 [02:49<00:03, 2.63it/s]
Power Factorization: 98%	491/500 [02:49<00:03, 2.56it/s]
Power Factorization: 98%	492/500 [02:50<00:02, 2.69it/s]
Power Factorization: 99%	493/500 [02:50<00:02, 2.68it/s]
Power Factorization: 99%	494/500 [02:50<00:02, 2.77it/s]
Power Factorization: 99%	495/500 [02:51<00:01, 2.84it/s]
Power Factorization: 99%	496/500 [02:51<00:01, 2.86it/s]
Power Factorization: 99%	497/500 [02:51<00:01, 2.77it/s]

Power Factorization: 100%	498/500 [02:52<00:00, 2.80it/s]
Power Factorization: 100%	499/500 [02:52<00:00, 2.83it/s]
Power Factorization: 100%	500/500 [02:53<00:00, 2.89it/s]
Cross Validation: 40%	2/5 [05:52<08:46, 175.60s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:00, 2.76it/s]
Power Factorization: 0%	2/500 [00:00<02:48, 2.96it/s]
Power Factorization: 1%	3/500 [00:01<03:02, 2.72it/s]
Power Factorization: 1%	4/500 [00:01<03:02, 2.71it/s]
Power Factorization: 1%	5/500 [00:01<03:13, 2.56it/s]
Power Factorization: 1%	6/500 [00:02<03:06, 2.65it/s]
Power Factorization: 1%	7/500 [00:02<02:55, 2.80it/s]
Power Factorization: 2%	8/500 [00:02<02:55, 2.80it/s]
Power Factorization: 2%	9/500 [00:03<02:50, 2.87it/s]
Power Factorization: 2%	10/500 [00:03<02:52, 2.83it/s]
Power Factorization: 2%	11/500 [00:03<02:47, 2.91it/s]
Power Factorization: 2%	12/500 [00:04<02:44, 2.97it/s]
Power Factorization: 3%	13/500 [00:04<02:44, 2.96it/s]
Power Factorization: 3%	14/500 [00:04<02:44, 2.95it/s]
Power Factorization: 3%	15/500 [00:05<02:39, 3.04it/s]
Power Factorization: 3%	16/500 [00:05<02:35, 3.11it/s]
Power Factorization: 3%	17/500 [00:05<02:37, 3.06it/s]
Power Factorization: 4%	18/500 [00:06<02:38, 3.04it/s]
Power Factorization: 4%	19/500 [00:06<02:33, 3.14it/s]

Power Factorization:	4%	20/500	[00:06<02:37, 3.05it/s]
Power Factorization:	4%	21/500	[00:07<02:40, 2.99it/s]
Power Factorization:	4%	22/500	[00:07<02:39, 3.00it/s]
Power Factorization:	5%	23/500	[00:07<02:40, 2.98it/s]
Power Factorization:	5%	24/500	[00:08<02:47, 2.84it/s]
Power Factorization:	5%	25/500	[00:08<02:40, 2.96it/s]
Power Factorization:	5%	26/500	[00:08<02:41, 2.94it/s]
Power Factorization:	5%	27/500	[00:09<02:37, 3.01it/s]
Power Factorization:	6%	28/500	[00:09<02:42, 2.90it/s]
Power Factorization:	6%	29/500	[00:09<02:45, 2.84it/s]
Power Factorization:	6%	30/500	[00:10<02:52, 2.72it/s]
Power Factorization:	6%	31/500	[00:10<02:50, 2.75it/s]
Power Factorization:	6%	32/500	[00:11<02:39, 2.93it/s]
Power Factorization:	7%	33/500	[00:11<02:43, 2.85it/s]
Power Factorization:	7%	34/500	[00:11<02:40, 2.91it/s]
Power Factorization:	7%	35/500	[00:12<02:39, 2.92it/s]
Power Factorization:	7%	36/500	[00:12<02:37, 2.95it/s]
Power Factorization:	7%	37/500	[00:12<02:38, 2.93it/s]
Power Factorization:	8%	38/500	[00:13<02:37, 2.94it/s]
Power Factorization:	8%	39/500	[00:13<02:35, 2.96it/s]
Power Factorization:	8%	40/500	[00:13<02:49, 2.71it/s]
Power Factorization:	8%	41/500	[00:14<02:52, 2.66it/s]
Power Factorization:	8%	42/500	[00:14<02:49, 2.71it/s]
Power Factorization:	9%	43/500	[00:14<02:48, 2.72it/s]

Power Factorization:	9%	44/500 [00:15<02:43, 2.78it/s]
Power Factorization:	9%	45/500 [00:15<02:38, 2.88it/s]
Power Factorization:	9%	46/500 [00:15<02:37, 2.89it/s]
Power Factorization:	9%	47/500 [00:16<02:37, 2.87it/s]
Power Factorization:	10%	48/500 [00:16<02:35, 2.91it/s]
Power Factorization:	10%	49/500 [00:16<02:30, 3.00it/s]
Power Factorization:	10%	50/500 [00:17<02:30, 3.00it/s]
Power Factorization:	10%	51/500 [00:17<02:29, 3.00it/s]
Power Factorization:	10%	52/500 [00:17<02:30, 2.97it/s]
Power Factorization:	11%	53/500 [00:18<02:29, 2.99it/s]
Power Factorization:	11%	54/500 [00:18<02:35, 2.87it/s]
Power Factorization:	11%	55/500 [00:19<02:41, 2.75it/s]
Power Factorization:	11%	56/500 [00:19<02:54, 2.54it/s]
Power Factorization:	11%	57/500 [00:19<02:50, 2.60it/s]
Power Factorization:	12%	58/500 [00:20<02:41, 2.73it/s]
Power Factorization:	12%	59/500 [00:20<02:36, 2.81it/s]
Power Factorization:	12%	60/500 [00:20<02:42, 2.70it/s]
Power Factorization:	12%	61/500 [00:21<02:35, 2.81it/s]
Power Factorization:	12%	62/500 [00:21<02:34, 2.84it/s]
Power Factorization:	13%	63/500 [00:21<02:33, 2.85it/s]
Power Factorization:	13%	64/500 [00:22<02:29, 2.92it/s]
Power Factorization:	13%	65/500 [00:22<02:35, 2.79it/s]
Power Factorization:	13%	66/500 [00:23<02:41, 2.69it/s]
Power Factorization:	13%	67/500 [00:23<02:36, 2.76it/s]

Power Factorization: 14%	68/500 [00:23<02:40,	2.69it/s]
Power Factorization: 14%	69/500 [00:24<02:34,	2.79it/s]
Power Factorization: 14%	70/500 [00:24<02:32,	2.82it/s]
Power Factorization: 14%	71/500 [00:24<02:32,	2.81it/s]
Power Factorization: 14%	72/500 [00:25<02:28,	2.89it/s]
Power Factorization: 15%	73/500 [00:25<02:28,	2.88it/s]
Power Factorization: 15%	74/500 [00:25<02:32,	2.80it/s]
Power Factorization: 15%	75/500 [00:26<02:28,	2.86it/s]
Power Factorization: 15%	76/500 [00:26<02:29,	2.84it/s]
Power Factorization: 15%	77/500 [00:26<02:27,	2.86it/s]
Power Factorization: 16%	78/500 [00:27<02:34,	2.73it/s]
Power Factorization: 16%	79/500 [00:27<02:30,	2.80it/s]
Power Factorization: 16%	80/500 [00:28<02:30,	2.79it/s]
Power Factorization: 16%	81/500 [00:28<02:31,	2.77it/s]
Power Factorization: 16%	82/500 [00:28<02:30,	2.77it/s]
Power Factorization: 17%	83/500 [00:29<02:28,	2.81it/s]
Power Factorization: 17%	84/500 [00:29<02:24,	2.87it/s]
Power Factorization: 17%	85/500 [00:29<02:21,	2.94it/s]
Power Factorization: 17%	86/500 [00:30<02:25,	2.85it/s]
Power Factorization: 17%	87/500 [00:30<02:23,	2.87it/s]
Power Factorization: 18%	88/500 [00:30<02:19,	2.94it/s]
Power Factorization: 18%	89/500 [00:31<02:21,	2.91it/s]
Power Factorization: 18%	90/500 [00:31<02:24,	2.84it/s]
Power Factorization: 18%	91/500 [00:31<02:23,	2.86it/s]

Power Factorization: 18%	92/500 [00:32<02:22, 2.86it/s]
Power Factorization: 19%	93/500 [00:32<02:19, 2.91it/s]
Power Factorization: 19%	94/500 [00:32<02:17, 2.94it/s]
Power Factorization: 19%	95/500 [00:33<02:22, 2.85it/s]
Power Factorization: 19%	96/500 [00:33<02:19, 2.89it/s]
Power Factorization: 19%	97/500 [00:33<02:19, 2.90it/s]
Power Factorization: 20%	98/500 [00:34<02:25, 2.76it/s]
Power Factorization: 20%	99/500 [00:34<02:26, 2.74it/s]
Power Factorization: 20%	100/500 [00:35<02:23, 2.79it/s]
Power Factorization: 20%	101/500 [00:35<02:23, 2.78it/s]
Power Factorization: 20%	102/500 [00:35<02:26, 2.72it/s]
Power Factorization: 21%	103/500 [00:36<02:29, 2.65it/s]
Power Factorization: 21%	104/500 [00:36<02:29, 2.65it/s]
Power Factorization: 21%	105/500 [00:36<02:28, 2.66it/s]
Power Factorization: 21%	106/500 [00:37<02:26, 2.70it/s]
Power Factorization: 21%	107/500 [00:37<02:25, 2.70it/s]
Power Factorization: 22%	108/500 [00:38<02:26, 2.67it/s]
Power Factorization: 22%	109/500 [00:38<02:28, 2.64it/s]
Power Factorization: 22%	110/500 [00:38<02:26, 2.66it/s]
Power Factorization: 22%	111/500 [00:39<02:25, 2.67it/s]
Power Factorization: 22%	112/500 [00:39<02:27, 2.63it/s]
Power Factorization: 23%	113/500 [00:39<02:24, 2.68it/s]
Power Factorization: 23%	114/500 [00:40<02:18, 2.79it/s]
Power Factorization: 23%	115/500 [00:40<02:14, 2.86it/s]

Power Factorization: 23%	116/500 [00:41<02:22, 2.69it/s]
Power Factorization: 23%	117/500 [00:41<02:22, 2.69it/s]
Power Factorization: 24%	118/500 [00:41<02:29, 2.56it/s]
Power Factorization: 24%	119/500 [00:42<02:39, 2.39it/s]
Power Factorization: 24%	120/500 [00:42<02:34, 2.45it/s]
Power Factorization: 24%	121/500 [00:43<02:31, 2.51it/s]
Power Factorization: 24%	122/500 [00:43<02:29, 2.52it/s]
Power Factorization: 25%	123/500 [00:43<02:28, 2.54it/s]
Power Factorization: 25%	124/500 [00:44<02:26, 2.56it/s]
Power Factorization: 25%	125/500 [00:44<02:24, 2.60it/s]
Power Factorization: 25%	126/500 [00:45<02:29, 2.50it/s]
Power Factorization: 25%	127/500 [00:45<02:27, 2.54it/s]
Power Factorization: 26%	128/500 [00:45<02:27, 2.51it/s]
Power Factorization: 26%	129/500 [00:46<02:25, 2.55it/s]
Power Factorization: 26%	130/500 [00:46<02:27, 2.51it/s]
Power Factorization: 26%	131/500 [00:46<02:21, 2.60it/s]
Power Factorization: 26%	132/500 [00:47<02:16, 2.69it/s]
Power Factorization: 27%	133/500 [00:47<02:24, 2.53it/s]
Power Factorization: 27%	134/500 [00:48<02:22, 2.57it/s]
Power Factorization: 27%	135/500 [00:48<02:20, 2.60it/s]
Power Factorization: 27%	136/500 [00:48<02:15, 2.68it/s]
Power Factorization: 27%	137/500 [00:49<02:20, 2.59it/s]
Power Factorization: 28%	138/500 [00:49<02:18, 2.61it/s]
Power Factorization: 28%	139/500 [00:50<02:13, 2.70it/s]

Power Factorization: 28%	140/500 [00:50<02:19, 2.58it/s]
Power Factorization: 28%	141/500 [00:50<02:21, 2.54it/s]
Power Factorization: 28%	142/500 [00:51<02:13, 2.68it/s]
Power Factorization: 29%	143/500 [00:51<02:12, 2.70it/s]
Power Factorization: 29%	144/500 [00:51<02:15, 2.62it/s]
Power Factorization: 29%	145/500 [00:52<02:13, 2.65it/s]
Power Factorization: 29%	146/500 [00:52<02:12, 2.67it/s]
Power Factorization: 29%	147/500 [00:53<02:10, 2.70it/s]
Power Factorization: 30%	148/500 [00:53<02:11, 2.69it/s]
Power Factorization: 30%	149/500 [00:53<02:10, 2.70it/s]
Power Factorization: 30%	150/500 [00:54<02:10, 2.69it/s]
Power Factorization: 30%	151/500 [00:54<02:15, 2.57it/s]
Power Factorization: 30%	152/500 [00:54<02:08, 2.71it/s]
Power Factorization: 31%	153/500 [00:55<02:06, 2.75it/s]
Power Factorization: 31%	154/500 [00:55<02:10, 2.65it/s]
Power Factorization: 31%	155/500 [00:56<02:29, 2.30it/s]
Power Factorization: 31%	156/500 [00:56<02:25, 2.36it/s]
Power Factorization: 31%	157/500 [00:56<02:18, 2.47it/s]
Power Factorization: 32%	158/500 [00:57<02:14, 2.55it/s]
Power Factorization: 32%	159/500 [00:57<02:12, 2.57it/s]
Power Factorization: 32%	160/500 [00:58<02:17, 2.47it/s]
Power Factorization: 32%	161/500 [00:58<02:13, 2.55it/s]
Power Factorization: 32%	162/500 [00:58<02:12, 2.54it/s]
Power Factorization: 33%	163/500 [00:59<02:09, 2.61it/s]

Power Factorization: 33%	164/500 [00:59<02:07, 2.64it/s]
Power Factorization: 33%	165/500 [01:00<02:07, 2.62it/s]
Power Factorization: 33%	166/500 [01:00<02:04, 2.68it/s]
Power Factorization: 33%	167/500 [01:00<02:00, 2.76it/s]
Power Factorization: 34%	168/500 [01:01<02:02, 2.71it/s]
Power Factorization: 34%	169/500 [01:01<02:02, 2.69it/s]
Power Factorization: 34%	170/500 [01:01<01:59, 2.77it/s]
Power Factorization: 34%	171/500 [01:02<01:56, 2.83it/s]
Power Factorization: 34%	172/500 [01:02<01:54, 2.86it/s]
Power Factorization: 35%	173/500 [01:02<01:53, 2.88it/s]
Power Factorization: 35%	174/500 [01:03<01:54, 2.83it/s]
Power Factorization: 35%	175/500 [01:03<01:52, 2.88it/s]
Power Factorization: 35%	176/500 [01:03<01:53, 2.86it/s]
Power Factorization: 35%	177/500 [01:04<01:53, 2.85it/s]
Power Factorization: 36%	178/500 [01:04<01:54, 2.82it/s]
Power Factorization: 36%	179/500 [01:05<02:00, 2.67it/s]
Power Factorization: 36%	180/500 [01:05<01:57, 2.72it/s]
Power Factorization: 36%	181/500 [01:05<01:56, 2.74it/s]
Power Factorization: 36%	182/500 [01:06<02:01, 2.61it/s]
Power Factorization: 37%	183/500 [01:06<02:09, 2.45it/s]
Power Factorization: 37%	184/500 [01:07<02:04, 2.55it/s]
Power Factorization: 37%	185/500 [01:07<01:56, 2.70it/s]
Power Factorization: 37%	186/500 [01:07<01:55, 2.72it/s]
Power Factorization: 37%	187/500 [01:08<01:59, 2.62it/s]

Power Factorization: 38%	188/500 [01:08<01:59, 2.62it/s]
Power Factorization: 38%	189/500 [01:08<02:00, 2.59it/s]
Power Factorization: 38%	190/500 [01:09<01:59, 2.59it/s]
Power Factorization: 38%	191/500 [01:09<01:55, 2.69it/s]
Power Factorization: 38%	192/500 [01:09<01:52, 2.74it/s]
Power Factorization: 39%	193/500 [01:10<01:50, 2.78it/s]
Power Factorization: 39%	194/500 [01:10<01:50, 2.77it/s]
Power Factorization: 39%	195/500 [01:11<01:47, 2.83it/s]
Power Factorization: 39%	196/500 [01:11<01:44, 2.92it/s]
Power Factorization: 39%	197/500 [01:11<01:48, 2.81it/s]
Power Factorization: 40%	198/500 [01:12<01:43, 2.92it/s]
Power Factorization: 40%	199/500 [01:12<01:42, 2.92it/s]
Power Factorization: 40%	200/500 [01:12<01:44, 2.88it/s]
Power Factorization: 40%	201/500 [01:13<01:42, 2.92it/s]
Power Factorization: 40%	202/500 [01:13<01:40, 2.98it/s]
Power Factorization: 41%	203/500 [01:13<01:40, 2.95it/s]
Power Factorization: 41%	204/500 [01:14<01:40, 2.93it/s]
Power Factorization: 41%	205/500 [01:14<01:40, 2.93it/s]
Power Factorization: 41%	206/500 [01:14<01:43, 2.85it/s]
Power Factorization: 41%	207/500 [01:15<01:44, 2.82it/s]
Power Factorization: 42%	208/500 [01:15<01:46, 2.73it/s]
Power Factorization: 42%	209/500 [01:15<01:49, 2.66it/s]
Power Factorization: 42%	210/500 [01:16<01:50, 2.63it/s]
Power Factorization: 42%	211/500 [01:16<01:46, 2.72it/s]

Power Factorization: 42%	212/500 [01:17<01:45, 2.73it/s]
Power Factorization: 43%	213/500 [01:17<01:45, 2.72it/s]
Power Factorization: 43%	214/500 [01:17<01:47, 2.65it/s]
Power Factorization: 43%	215/500 [01:18<01:50, 2.58it/s]
Power Factorization: 43%	216/500 [01:18<01:48, 2.62it/s]
Power Factorization: 43%	217/500 [01:18<01:45, 2.69it/s]
Power Factorization: 44%	218/500 [01:19<01:43, 2.72it/s]
Power Factorization: 44%	219/500 [01:19<01:38, 2.85it/s]
Power Factorization: 44%	220/500 [01:19<01:37, 2.88it/s]
Power Factorization: 44%	221/500 [01:20<01:35, 2.92it/s]
Power Factorization: 44%	222/500 [01:20<01:35, 2.90it/s]
Power Factorization: 45%	223/500 [01:20<01:35, 2.90it/s]
Power Factorization: 45%	224/500 [01:21<01:31, 3.00it/s]
Power Factorization: 45%	225/500 [01:21<01:31, 3.01it/s]
Power Factorization: 45%	226/500 [01:21<01:29, 3.05it/s]
Power Factorization: 45%	227/500 [01:22<01:29, 3.06it/s]
Power Factorization: 46%	228/500 [01:22<01:38, 2.77it/s]
Power Factorization: 46%	229/500 [01:23<01:41, 2.68it/s]
Power Factorization: 46%	230/500 [01:23<01:38, 2.75it/s]
Power Factorization: 46%	231/500 [01:23<01:36, 2.80it/s]
Power Factorization: 46%	232/500 [01:24<01:35, 2.80it/s]
Power Factorization: 47%	233/500 [01:24<01:32, 2.88it/s]
Power Factorization: 47%	234/500 [01:24<01:28, 2.99it/s]
Power Factorization: 47%	235/500 [01:25<01:28, 2.99it/s]

Power Factorization: 47%	236/500 [01:25<01:31, 2.88it/s]
Power Factorization: 47%	237/500 [01:25<01:32, 2.86it/s]
Power Factorization: 48%	238/500 [01:26<01:28, 2.96it/s]
Power Factorization: 48%	239/500 [01:26<01:25, 3.05it/s]
Power Factorization: 48%	240/500 [01:26<01:29, 2.90it/s]
Power Factorization: 48%	241/500 [01:27<01:31, 2.84it/s]
Power Factorization: 48%	242/500 [01:27<01:30, 2.85it/s]
Power Factorization: 49%	243/500 [01:27<01:31, 2.80it/s]
Power Factorization: 49%	244/500 [01:28<01:34, 2.71it/s]
Power Factorization: 49%	245/500 [01:28<01:31, 2.79it/s]
Power Factorization: 49%	246/500 [01:28<01:28, 2.88it/s]
Power Factorization: 49%	247/500 [01:29<01:26, 2.91it/s]
Power Factorization: 50%	248/500 [01:29<01:31, 2.76it/s]
Power Factorization: 50%	249/500 [01:30<01:29, 2.79it/s]
Power Factorization: 50%	250/500 [01:30<01:27, 2.87it/s]
Power Factorization: 50%	251/500 [01:30<01:28, 2.81it/s]
Power Factorization: 50%	252/500 [01:31<01:27, 2.85it/s]
Power Factorization: 51%	253/500 [01:31<01:24, 2.94it/s]
Power Factorization: 51%	254/500 [01:31<01:25, 2.89it/s]
Power Factorization: 51%	255/500 [01:32<01:22, 2.96it/s]
Power Factorization: 51%	256/500 [01:32<01:22, 2.98it/s]
Power Factorization: 51%	257/500 [01:32<01:24, 2.88it/s]
Power Factorization: 52%	258/500 [01:33<01:26, 2.81it/s]
Power Factorization: 52%	259/500 [01:33<01:24, 2.86it/s]

Power Factorization: 52%	260/500 [01:33<01:23, 2.87it/s]
Power Factorization: 52%	261/500 [01:34<01:21, 2.92it/s]
Power Factorization: 52%	262/500 [01:34<01:19, 3.00it/s]
Power Factorization: 53%	263/500 [01:34<01:18, 3.01it/s]
Power Factorization: 53%	264/500 [01:35<01:16, 3.08it/s]
Power Factorization: 53%	265/500 [01:35<01:19, 2.96it/s]
Power Factorization: 53%	266/500 [01:35<01:21, 2.89it/s]
Power Factorization: 53%	267/500 [01:36<01:27, 2.67it/s]
Power Factorization: 54%	268/500 [01:36<01:25, 2.73it/s]
Power Factorization: 54%	269/500 [01:37<01:25, 2.69it/s]
Power Factorization: 54%	270/500 [01:37<01:27, 2.62it/s]
Power Factorization: 54%	271/500 [01:37<01:27, 2.62it/s]
Power Factorization: 54%	272/500 [01:38<01:26, 2.64it/s]
Power Factorization: 55%	273/500 [01:38<01:25, 2.65it/s]
Power Factorization: 55%	274/500 [01:38<01:25, 2.64it/s]
Power Factorization: 55%	275/500 [01:39<01:25, 2.63it/s]
Power Factorization: 55%	276/500 [01:39<01:23, 2.69it/s]
Power Factorization: 55%	277/500 [01:40<01:21, 2.73it/s]
Power Factorization: 56%	278/500 [01:40<01:20, 2.76it/s]
Power Factorization: 56%	279/500 [01:40<01:20, 2.73it/s]
Power Factorization: 56%	280/500 [01:41<01:23, 2.62it/s]
Power Factorization: 56%	281/500 [01:41<01:22, 2.64it/s]
Power Factorization: 56%	282/500 [01:41<01:22, 2.66it/s]
Power Factorization: 57%	283/500 [01:42<01:24, 2.55it/s]

Power Factorization: 57%	284/500 [01:42<01:23, 2.59it/s]
Power Factorization: 57%	285/500 [01:43<01:21, 2.64it/s]
Power Factorization: 57%	286/500 [01:43<01:21, 2.64it/s]
Power Factorization: 57%	287/500 [01:43<01:20, 2.65it/s]
Power Factorization: 58%	288/500 [01:44<01:19, 2.67it/s]
Power Factorization: 58%	289/500 [01:44<01:19, 2.64it/s]
Power Factorization: 58%	290/500 [01:45<01:23, 2.52it/s]
Power Factorization: 58%	291/500 [01:45<01:28, 2.35it/s]
Power Factorization: 58%	292/500 [01:45<01:22, 2.51it/s]
Power Factorization: 59%	293/500 [01:46<01:20, 2.56it/s]
Power Factorization: 59%	294/500 [01:46<01:17, 2.66it/s]
Power Factorization: 59%	295/500 [01:46<01:16, 2.68it/s]
Power Factorization: 59%	296/500 [01:47<01:14, 2.74it/s]
Power Factorization: 59%	297/500 [01:47<01:11, 2.86it/s]
Power Factorization: 60%	298/500 [01:47<01:09, 2.92it/s]
Power Factorization: 60%	299/500 [01:48<01:08, 2.95it/s]
Power Factorization: 60%	300/500 [01:48<01:11, 2.81it/s]
Power Factorization: 60%	301/500 [01:49<01:11, 2.79it/s]
Power Factorization: 60%	302/500 [01:49<01:11, 2.75it/s]
Power Factorization: 61%	303/500 [01:49<01:11, 2.77it/s]
Power Factorization: 61%	304/500 [01:50<01:07, 2.90it/s]
Power Factorization: 61%	305/500 [01:50<01:08, 2.87it/s]
Power Factorization: 61%	306/500 [01:50<01:12, 2.66it/s]
Power Factorization: 61%	307/500 [01:51<01:11, 2.70it/s]

Power Factorization: 62%	308/500 [01:51<01:11, 2.68it/s]
Power Factorization: 62%	309/500 [01:51<01:10, 2.71it/s]
Power Factorization: 62%	310/500 [01:52<01:12, 2.64it/s]
Power Factorization: 62%	311/500 [01:52<01:11, 2.65it/s]
Power Factorization: 62%	312/500 [01:53<01:12, 2.60it/s]
Power Factorization: 63%	313/500 [01:53<01:11, 2.62it/s]
Power Factorization: 63%	314/500 [01:53<01:12, 2.55it/s]
Power Factorization: 63%	315/500 [01:54<01:13, 2.52it/s]
Power Factorization: 63%	316/500 [01:54<01:10, 2.61it/s]
Power Factorization: 63%	317/500 [01:55<01:10, 2.60it/s]
Power Factorization: 64%	318/500 [01:55<01:11, 2.53it/s]
Power Factorization: 64%	319/500 [01:55<01:09, 2.59it/s]
Power Factorization: 64%	320/500 [01:56<01:12, 2.50it/s]
Power Factorization: 64%	321/500 [01:56<01:10, 2.54it/s]
Power Factorization: 64%	322/500 [01:57<01:14, 2.39it/s]
Power Factorization: 65%	323/500 [01:57<01:12, 2.45it/s]
Power Factorization: 65%	324/500 [01:57<01:12, 2.44it/s]
Power Factorization: 65%	325/500 [01:58<01:10, 2.48it/s]
Power Factorization: 65%	326/500 [01:58<01:10, 2.47it/s]
Power Factorization: 65%	327/500 [01:59<01:08, 2.51it/s]
Power Factorization: 66%	328/500 [01:59<01:08, 2.53it/s]
Power Factorization: 66%	329/500 [01:59<01:04, 2.64it/s]
Power Factorization: 66%	330/500 [02:00<01:03, 2.67it/s]
Power Factorization: 66%	331/500 [02:00<01:02, 2.70it/s]

Power Factorization: 66%	332/500 [02:00<01:05, 2.56it/s]
Power Factorization: 67%	333/500 [02:01<01:03, 2.62it/s]
Power Factorization: 67%	334/500 [02:01<01:02, 2.66it/s]
Power Factorization: 67%	335/500 [02:02<01:02, 2.66it/s]
Power Factorization: 67%	336/500 [02:02<01:04, 2.53it/s]
Power Factorization: 67%	337/500 [02:02<01:01, 2.67it/s]
Power Factorization: 68%	338/500 [02:03<01:00, 2.67it/s]
Power Factorization: 68%	339/500 [02:03<00:59, 2.70it/s]
Power Factorization: 68%	340/500 [02:03<00:58, 2.72it/s]
Power Factorization: 68%	341/500 [02:04<01:01, 2.58it/s]
Power Factorization: 68%	342/500 [02:04<01:01, 2.58it/s]
Power Factorization: 69%	343/500 [02:05<01:02, 2.49it/s]
Power Factorization: 69%	344/500 [02:05<01:02, 2.51it/s]
Power Factorization: 69%	345/500 [02:05<01:00, 2.57it/s]
Power Factorization: 69%	346/500 [02:06<00:59, 2.59it/s]
Power Factorization: 69%	347/500 [02:06<00:59, 2.59it/s]
Power Factorization: 70%	348/500 [02:07<00:57, 2.63it/s]
Power Factorization: 70%	349/500 [02:07<00:56, 2.66it/s]
Power Factorization: 70%	350/500 [02:07<00:58, 2.56it/s]
Power Factorization: 70%	351/500 [02:08<00:58, 2.57it/s]
Power Factorization: 70%	352/500 [02:08<00:57, 2.56it/s]
Power Factorization: 71%	353/500 [02:09<00:56, 2.60it/s]
Power Factorization: 71%	354/500 [02:09<00:53, 2.71it/s]
Power Factorization: 71%	355/500 [02:09<00:53, 2.71it/s]

Power Factorization: 71%	356/500 [02:10<00:53, 2.69it/s]
Power Factorization: 71%	357/500 [02:10<00:52, 2.71it/s]
Power Factorization: 72%	358/500 [02:10<00:53, 2.67it/s]
Power Factorization: 72%	359/500 [02:11<00:50, 2.79it/s]
Power Factorization: 72%	360/500 [02:11<00:54, 2.58it/s]
Power Factorization: 72%	361/500 [02:12<00:53, 2.62it/s]
Power Factorization: 72%	362/500 [02:12<00:51, 2.68it/s]
Power Factorization: 73%	363/500 [02:12<00:51, 2.67it/s]
Power Factorization: 73%	364/500 [02:13<00:49, 2.74it/s]
Power Factorization: 73%	365/500 [02:13<00:48, 2.77it/s]
Power Factorization: 73%	366/500 [02:13<00:49, 2.69it/s]
Power Factorization: 73%	367/500 [02:14<00:48, 2.73it/s]
Power Factorization: 74%	368/500 [02:14<00:48, 2.73it/s]
Power Factorization: 74%	369/500 [02:14<00:50, 2.61it/s]
Power Factorization: 74%	370/500 [02:15<00:47, 2.72it/s]
Power Factorization: 74%	371/500 [02:15<00:46, 2.77it/s]
Power Factorization: 74%	372/500 [02:16<00:45, 2.79it/s]
Power Factorization: 75%	373/500 [02:16<00:46, 2.72it/s]
Power Factorization: 75%	374/500 [02:16<00:46, 2.69it/s]
Power Factorization: 75%	375/500 [02:17<00:47, 2.64it/s]
Power Factorization: 75%	376/500 [02:17<00:51, 2.41it/s]
Power Factorization: 75%	377/500 [02:18<00:50, 2.45it/s]
Power Factorization: 76%	378/500 [02:18<00:50, 2.43it/s]
Power Factorization: 76%	379/500 [02:18<00:48, 2.49it/s]

Power Factorization: 76%	380/500 [02:19<00:46, 2.57it/s]
Power Factorization: 76%	381/500 [02:19<00:46, 2.59it/s]
Power Factorization: 76%	382/500 [02:20<00:45, 2.58it/s]
Power Factorization: 77%	383/500 [02:20<00:44, 2.62it/s]
Power Factorization: 77%	384/500 [02:20<00:43, 2.66it/s]
Power Factorization: 77%	385/500 [02:21<00:43, 2.63it/s]
Power Factorization: 77%	386/500 [02:21<00:43, 2.63it/s]
Power Factorization: 77%	387/500 [02:21<00:41, 2.75it/s]
Power Factorization: 78%	388/500 [02:22<00:41, 2.73it/s]
Power Factorization: 78%	389/500 [02:22<00:40, 2.72it/s]
Power Factorization: 78%	390/500 [02:22<00:40, 2.72it/s]
Power Factorization: 78%	391/500 [02:23<00:40, 2.68it/s]
Power Factorization: 78%	392/500 [02:23<00:39, 2.72it/s]
Power Factorization: 79%	393/500 [02:24<00:38, 2.80it/s]
Power Factorization: 79%	394/500 [02:24<00:37, 2.81it/s]
Power Factorization: 79%	395/500 [02:24<00:37, 2.83it/s]
Power Factorization: 79%	396/500 [02:25<00:38, 2.73it/s]
Power Factorization: 79%	397/500 [02:25<00:39, 2.64it/s]
Power Factorization: 80%	398/500 [02:25<00:37, 2.70it/s]
Power Factorization: 80%	399/500 [02:26<00:36, 2.75it/s]
Power Factorization: 80%	400/500 [02:26<00:36, 2.75it/s]
Power Factorization: 80%	401/500 [02:26<00:37, 2.67it/s]
Power Factorization: 80%	402/500 [02:27<00:36, 2.69it/s]
Power Factorization: 81%	403/500 [02:27<00:36, 2.69it/s]

Power Factorization: 81%	404/500 [02:28<00:34, 2.75it/s]
Power Factorization: 81%	405/500 [02:28<00:34, 2.76it/s]
Power Factorization: 81%	406/500 [02:28<00:33, 2.82it/s]
Power Factorization: 81%	407/500 [02:29<00:33, 2.79it/s]
Power Factorization: 82%	408/500 [02:29<00:33, 2.76it/s]
Power Factorization: 82%	409/500 [02:29<00:33, 2.73it/s]
Power Factorization: 82%	410/500 [02:30<00:31, 2.82it/s]
Power Factorization: 82%	411/500 [02:30<00:32, 2.73it/s]
Power Factorization: 82%	412/500 [02:31<00:33, 2.61it/s]
Power Factorization: 83%	413/500 [02:31<00:33, 2.61it/s]
Power Factorization: 83%	414/500 [02:31<00:32, 2.67it/s]
Power Factorization: 83%	415/500 [02:32<00:31, 2.68it/s]
Power Factorization: 83%	416/500 [02:32<00:31, 2.65it/s]
Power Factorization: 83%	417/500 [02:32<00:31, 2.60it/s]
Power Factorization: 84%	418/500 [02:33<00:30, 2.68it/s]
Power Factorization: 84%	419/500 [02:33<00:29, 2.76it/s]
Power Factorization: 84%	420/500 [02:33<00:29, 2.70it/s]
Power Factorization: 84%	421/500 [02:34<00:28, 2.76it/s]
Power Factorization: 84%	422/500 [02:34<00:28, 2.76it/s]
Power Factorization: 85%	423/500 [02:35<00:27, 2.77it/s]
Power Factorization: 85%	424/500 [02:35<00:28, 2.70it/s]
Power Factorization: 85%	425/500 [02:35<00:27, 2.73it/s]
Power Factorization: 85%	426/500 [02:36<00:27, 2.73it/s]
Power Factorization: 85%	427/500 [02:36<00:26, 2.72it/s]

Power Factorization: 86%	428/500 [02:36<00:27,	2.60it/s]
Power Factorization: 86%	429/500 [02:37<00:27,	2.61it/s]
Power Factorization: 86%	430/500 [02:37<00:25,	2.70it/s]
Power Factorization: 86%	431/500 [02:38<00:24,	2.78it/s]
Power Factorization: 86%	432/500 [02:38<00:24,	2.74it/s]
Power Factorization: 87%	433/500 [02:38<00:26,	2.56it/s]
Power Factorization: 87%	434/500 [02:39<00:25,	2.58it/s]
Power Factorization: 87%	435/500 [02:39<00:23,	2.80it/s]
Power Factorization: 87%	436/500 [02:39<00:23,	2.74it/s]
Power Factorization: 87%	437/500 [02:40<00:22,	2.81it/s]
Power Factorization: 88%	438/500 [02:40<00:22,	2.82it/s]
Power Factorization: 88%	439/500 [02:40<00:21,	2.83it/s]
Power Factorization: 88%	440/500 [02:41<00:21,	2.80it/s]
Power Factorization: 88%	441/500 [02:41<00:20,	2.89it/s]
Power Factorization: 88%	442/500 [02:41<00:20,	2.82it/s]
Power Factorization: 89%	443/500 [02:42<00:20,	2.84it/s]
Power Factorization: 89%	444/500 [02:42<00:20,	2.77it/s]
Power Factorization: 89%	445/500 [02:43<00:20,	2.69it/s]
Power Factorization: 89%	446/500 [02:43<00:19,	2.74it/s]
Power Factorization: 89%	447/500 [02:43<00:18,	2.82it/s]
Power Factorization: 90%	448/500 [02:44<00:18,	2.80it/s]
Power Factorization: 90%	449/500 [02:44<00:17,	2.86it/s]
Power Factorization: 90%	450/500 [02:44<00:19,	2.61it/s]
Power Factorization: 90%	451/500 [02:45<00:18,	2.66it/s]

Power Factorization: 90%	452/500 [02:45<00:18,	2.59it/s]
Power Factorization: 91%	453/500 [02:46<00:17,	2.67it/s]
Power Factorization: 91%	454/500 [02:46<00:17,	2.67it/s]
Power Factorization: 91%	455/500 [02:46<00:16,	2.70it/s]
Power Factorization: 91%	456/500 [02:47<00:15,	2.80it/s]
Power Factorization: 91%	457/500 [02:47<00:15,	2.76it/s]
Power Factorization: 92%	458/500 [02:47<00:15,	2.79it/s]
Power Factorization: 92%	459/500 [02:48<00:14,	2.81it/s]
Power Factorization: 92%	460/500 [02:48<00:14,	2.79it/s]
Power Factorization: 92%	461/500 [02:49<00:15,	2.49it/s]
Power Factorization: 92%	462/500 [02:49<00:15,	2.44it/s]
Power Factorization: 93%	463/500 [02:49<00:14,	2.53it/s]
Power Factorization: 93%	464/500 [02:50<00:13,	2.59it/s]
Power Factorization: 93%	465/500 [02:50<00:13,	2.54it/s]
Power Factorization: 93%	466/500 [02:51<00:13,	2.57it/s]
Power Factorization: 93%	467/500 [02:51<00:12,	2.59it/s]
Power Factorization: 94%	468/500 [02:51<00:11,	2.70it/s]
Power Factorization: 94%	469/500 [02:52<00:11,	2.60it/s]
Power Factorization: 94%	470/500 [02:52<00:11,	2.66it/s]
Power Factorization: 94%	471/500 [02:52<00:10,	2.78it/s]
Power Factorization: 94%	472/500 [02:53<00:10,	2.78it/s]
Power Factorization: 95%	473/500 [02:53<00:10,	2.52it/s]
Power Factorization: 95%	474/500 [02:54<00:10,	2.49it/s]
Power Factorization: 95%	475/500 [02:54<00:09,	2.59it/s]

Power Factorization: 95%	476/500 [02:54<00:09, 2.58it/s]
Power Factorization: 95%	477/500 [02:55<00:09, 2.52it/s]
Power Factorization: 96%	478/500 [02:55<00:08, 2.47it/s]
Power Factorization: 96%	479/500 [02:56<00:08, 2.56it/s]
Power Factorization: 96%	480/500 [02:56<00:07, 2.57it/s]
Power Factorization: 96%	481/500 [02:56<00:07, 2.63it/s]
Power Factorization: 96%	482/500 [02:57<00:06, 2.63it/s]
Power Factorization: 97%	483/500 [02:57<00:06, 2.55it/s]
Power Factorization: 97%	484/500 [02:57<00:06, 2.58it/s]
Power Factorization: 97%	485/500 [02:58<00:05, 2.64it/s]
Power Factorization: 97%	486/500 [02:58<00:05, 2.58it/s]
Power Factorization: 97%	487/500 [02:59<00:05, 2.59it/s]
Power Factorization: 98%	488/500 [02:59<00:04, 2.58it/s]
Power Factorization: 98%	489/500 [02:59<00:04, 2.58it/s]
Power Factorization: 98%	490/500 [03:00<00:03, 2.65it/s]
Power Factorization: 98%	491/500 [03:00<00:03, 2.53it/s]
Power Factorization: 98%	492/500 [03:01<00:03, 2.52it/s]
Power Factorization: 99%	493/500 [03:01<00:02, 2.64it/s]
Power Factorization: 99%	494/500 [03:01<00:02, 2.66it/s]
Power Factorization: 99%	495/500 [03:02<00:01, 2.72it/s]
Power Factorization: 99%	496/500 [03:02<00:01, 2.83it/s]
Power Factorization: 99%	497/500 [03:02<00:01, 2.76it/s]
Power Factorization: 100%	498/500 [03:03<00:00, 2.51it/s]
Power Factorization: 100%	499/500 [03:03<00:00, 2.61it/s]

Power Factorization: 100%	500/500 [03:03<00:00, 2.72it/s]
Cross Validation: 60%	3/5 [08:56<05:58, 179.45s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:18, 3.61it/s]
Power Factorization: 0%	2/500 [00:00<02:31, 3.29it/s]
Power Factorization: 1%	3/500 [00:00<02:38, 3.14it/s]
Power Factorization: 1%	4/500 [00:01<02:45, 3.00it/s]
Power Factorization: 1%	5/500 [00:01<02:49, 2.92it/s]
Power Factorization: 1%	6/500 [00:02<02:57, 2.78it/s]
Power Factorization: 1%	7/500 [00:02<03:01, 2.72it/s]
Power Factorization: 2%	8/500 [00:02<02:57, 2.77it/s]
Power Factorization: 2%	9/500 [00:03<02:57, 2.76it/s]
Power Factorization: 2%	10/500 [00:03<02:53, 2.82it/s]
Power Factorization: 2%	11/500 [00:03<02:56, 2.76it/s]
Power Factorization: 2%	12/500 [00:04<02:50, 2.86it/s]
Power Factorization: 3%	13/500 [00:04<03:09, 2.57it/s]
Power Factorization: 3%	14/500 [00:05<03:10, 2.55it/s]
Power Factorization: 3%	15/500 [00:05<03:00, 2.69it/s]
Power Factorization: 3%	16/500 [00:05<02:57, 2.73it/s]
Power Factorization: 3%	17/500 [00:06<02:57, 2.72it/s]
Power Factorization: 4%	18/500 [00:06<02:54, 2.76it/s]
Power Factorization: 4%	19/500 [00:06<02:51, 2.81it/s]
Power Factorization: 4%	20/500 [00:07<02:46, 2.88it/s]
Power Factorization: 4%	21/500 [00:07<02:48, 2.85it/s]

Power Factorization:	4%	22/500	[00:07<02:43,	2.92it/s]
Power Factorization:	5%	23/500	[00:08<02:47,	2.86it/s]
Power Factorization:	5%	24/500	[00:08<02:43,	2.91it/s]
Power Factorization:	5%	25/500	[00:08<02:41,	2.93it/s]
Power Factorization:	5%	26/500	[00:09<02:45,	2.87it/s]
Power Factorization:	5%	27/500	[00:09<02:40,	2.95it/s]
Power Factorization:	6%	28/500	[00:09<02:42,	2.91it/s]
Power Factorization:	6%	29/500	[00:10<02:40,	2.94it/s]
Power Factorization:	6%	30/500	[00:10<02:47,	2.81it/s]
Power Factorization:	6%	31/500	[00:10<02:45,	2.83it/s]
Power Factorization:	6%	32/500	[00:11<02:47,	2.79it/s]
Power Factorization:	7%	33/500	[00:11<02:45,	2.83it/s]
Power Factorization:	7%	34/500	[00:12<03:00,	2.58it/s]
Power Factorization:	7%	35/500	[00:12<02:53,	2.67it/s]
Power Factorization:	7%	36/500	[00:12<02:46,	2.78it/s]
Power Factorization:	7%	37/500	[00:13<02:37,	2.94it/s]
Power Factorization:	8%	38/500	[00:13<02:39,	2.90it/s]
Power Factorization:	8%	39/500	[00:13<02:40,	2.88it/s]
Power Factorization:	8%	40/500	[00:14<02:38,	2.91it/s]
Power Factorization:	8%	41/500	[00:14<02:35,	2.95it/s]
Power Factorization:	8%	42/500	[00:14<02:37,	2.91it/s]
Power Factorization:	9%	43/500	[00:15<02:41,	2.83it/s]
Power Factorization:	9%	44/500	[00:15<02:44,	2.77it/s]
Power Factorization:	9%	45/500	[00:15<02:42,	2.80it/s]

Power Factorization:	9%	46/500 [00:16<02:40, 2.82it/s]
Power Factorization:	9%	47/500 [00:16<02:35, 2.91it/s]
Power Factorization:	10%	48/500 [00:16<02:37, 2.88it/s]
Power Factorization:	10%	49/500 [00:17<02:44, 2.75it/s]
Power Factorization:	10%	50/500 [00:17<02:38, 2.83it/s]
Power Factorization:	10%	51/500 [00:18<02:38, 2.84it/s]
Power Factorization:	10%	52/500 [00:18<02:40, 2.79it/s]
Power Factorization:	11%	53/500 [00:18<02:37, 2.84it/s]
Power Factorization:	11%	54/500 [00:19<02:40, 2.77it/s]
Power Factorization:	11%	55/500 [00:19<02:52, 2.58it/s]
Power Factorization:	11%	56/500 [00:19<02:53, 2.55it/s]
Power Factorization:	11%	57/500 [00:20<02:47, 2.65it/s]
Power Factorization:	12%	58/500 [00:20<02:40, 2.75it/s]
Power Factorization:	12%	59/500 [00:20<02:37, 2.81it/s]
Power Factorization:	12%	60/500 [00:21<02:35, 2.83it/s]
Power Factorization:	12%	61/500 [00:21<02:29, 2.94it/s]
Power Factorization:	12%	62/500 [00:21<02:28, 2.96it/s]
Power Factorization:	13%	63/500 [00:22<02:24, 3.03it/s]
Power Factorization:	13%	64/500 [00:22<02:26, 2.97it/s]
Power Factorization:	13%	65/500 [00:22<02:28, 2.94it/s]
Power Factorization:	13%	66/500 [00:23<02:32, 2.85it/s]
Power Factorization:	13%	67/500 [00:23<02:44, 2.63it/s]
Power Factorization:	14%	68/500 [00:24<02:38, 2.73it/s]
Power Factorization:	14%	69/500 [00:24<02:45, 2.61it/s]

Power Factorization: 14%	70/500 [00:24<02:43,	2.63it/s]
Power Factorization: 14%	71/500 [00:25<02:42,	2.64it/s]
Power Factorization: 14%	72/500 [00:25<02:38,	2.70it/s]
Power Factorization: 15%	73/500 [00:25<02:33,	2.79it/s]
Power Factorization: 15%	74/500 [00:26<02:31,	2.81it/s]
Power Factorization: 15%	75/500 [00:26<02:24,	2.93it/s]
Power Factorization: 15%	76/500 [00:26<02:24,	2.94it/s]
Power Factorization: 15%	77/500 [00:27<02:22,	2.97it/s]
Power Factorization: 16%	78/500 [00:27<02:20,	3.00it/s]
Power Factorization: 16%	79/500 [00:28<02:23,	2.93it/s]
Power Factorization: 16%	80/500 [00:28<02:26,	2.87it/s]
Power Factorization: 16%	81/500 [00:28<02:27,	2.85it/s]
Power Factorization: 16%	82/500 [00:29<02:29,	2.80it/s]
Power Factorization: 17%	83/500 [00:29<02:37,	2.65it/s]
Power Factorization: 17%	84/500 [00:29<02:26,	2.85it/s]
Power Factorization: 17%	85/500 [00:30<02:20,	2.95it/s]
Power Factorization: 17%	86/500 [00:30<02:25,	2.85it/s]
Power Factorization: 17%	87/500 [00:30<02:31,	2.72it/s]
Power Factorization: 18%	88/500 [00:31<02:29,	2.75it/s]
Power Factorization: 18%	89/500 [00:31<02:24,	2.84it/s]
Power Factorization: 18%	90/500 [00:31<02:25,	2.83it/s]
Power Factorization: 18%	91/500 [00:32<02:26,	2.79it/s]
Power Factorization: 18%	92/500 [00:32<02:28,	2.74it/s]
Power Factorization: 19%	93/500 [00:33<02:27,	2.76it/s]

Power Factorization: 19%	94/500 [00:33<02:25, 2.78it/s]
Power Factorization: 19%	95/500 [00:33<02:19, 2.90it/s]
Power Factorization: 19%	96/500 [00:34<02:17, 2.94it/s]
Power Factorization: 19%	97/500 [00:34<02:18, 2.90it/s]
Power Factorization: 20%	98/500 [00:34<02:21, 2.84it/s]
Power Factorization: 20%	99/500 [00:35<02:20, 2.85it/s]
Power Factorization: 20%	100/500 [00:35<02:13, 2.99it/s]
Power Factorization: 20%	101/500 [00:35<02:19, 2.87it/s]
Power Factorization: 20%	102/500 [00:36<02:22, 2.79it/s]
Power Factorization: 21%	103/500 [00:36<02:21, 2.80it/s]
Power Factorization: 21%	104/500 [00:36<02:21, 2.80it/s]
Power Factorization: 21%	105/500 [00:37<02:26, 2.70it/s]
Power Factorization: 21%	106/500 [00:37<02:22, 2.77it/s]
Power Factorization: 21%	107/500 [00:38<02:36, 2.51it/s]
Power Factorization: 22%	108/500 [00:38<02:40, 2.44it/s]
Power Factorization: 22%	109/500 [00:38<02:36, 2.50it/s]
Power Factorization: 22%	110/500 [00:39<02:30, 2.59it/s]
Power Factorization: 22%	111/500 [00:39<02:28, 2.61it/s]
Power Factorization: 22%	112/500 [00:39<02:23, 2.70it/s]
Power Factorization: 23%	113/500 [00:40<02:20, 2.75it/s]
Power Factorization: 23%	114/500 [00:40<02:20, 2.75it/s]
Power Factorization: 23%	115/500 [00:41<02:24, 2.67it/s]
Power Factorization: 23%	116/500 [00:41<02:22, 2.70it/s]
Power Factorization: 23%	117/500 [00:41<02:17, 2.78it/s]

Power Factorization: 24%	118/500 [00:42<02:15, 2.82it/s]
Power Factorization: 24%	119/500 [00:42<02:11, 2.90it/s]
Power Factorization: 24%	120/500 [00:42<02:12, 2.87it/s]
Power Factorization: 24%	121/500 [00:43<02:09, 2.93it/s]
Power Factorization: 24%	122/500 [00:43<02:08, 2.95it/s]
Power Factorization: 25%	123/500 [00:43<02:06, 2.99it/s]
Power Factorization: 25%	124/500 [00:44<02:06, 2.97it/s]
Power Factorization: 25%	125/500 [00:44<02:14, 2.78it/s]
Power Factorization: 25%	126/500 [00:44<02:17, 2.71it/s]
Power Factorization: 25%	127/500 [00:45<02:14, 2.77it/s]
Power Factorization: 26%	128/500 [00:45<02:11, 2.82it/s]
Power Factorization: 26%	129/500 [00:45<02:09, 2.85it/s]
Power Factorization: 26%	130/500 [00:46<02:10, 2.83it/s]
Power Factorization: 26%	131/500 [00:46<02:09, 2.85it/s]
Power Factorization: 26%	132/500 [00:47<02:12, 2.78it/s]
Power Factorization: 27%	133/500 [00:47<02:17, 2.67it/s]
Power Factorization: 27%	134/500 [00:47<02:13, 2.73it/s]
Power Factorization: 27%	135/500 [00:48<02:09, 2.82it/s]
Power Factorization: 27%	136/500 [00:48<02:09, 2.81it/s]
Power Factorization: 27%	137/500 [00:48<02:06, 2.86it/s]
Power Factorization: 28%	138/500 [00:49<02:12, 2.74it/s]
Power Factorization: 28%	139/500 [00:49<02:16, 2.65it/s]
Power Factorization: 28%	140/500 [00:49<02:09, 2.77it/s]
Power Factorization: 28%	141/500 [00:50<02:12, 2.70it/s]

Power Factorization: 28%	142/500 [00:50<02:09, 2.77it/s]
Power Factorization: 29%	143/500 [00:51<02:09, 2.76it/s]
Power Factorization: 29%	144/500 [00:51<02:08, 2.77it/s]
Power Factorization: 29%	145/500 [00:51<02:07, 2.79it/s]
Power Factorization: 29%	146/500 [00:52<02:09, 2.73it/s]
Power Factorization: 29%	147/500 [00:52<02:06, 2.79it/s]
Power Factorization: 30%	148/500 [00:52<02:06, 2.79it/s]
Power Factorization: 30%	149/500 [00:53<02:06, 2.77it/s]
Power Factorization: 30%	150/500 [00:53<02:06, 2.77it/s]
Power Factorization: 30%	151/500 [00:53<01:58, 2.94it/s]
Power Factorization: 30%	152/500 [00:54<02:01, 2.86it/s]
Power Factorization: 31%	153/500 [00:54<02:05, 2.76it/s]
Power Factorization: 31%	154/500 [00:55<02:06, 2.74it/s]
Power Factorization: 31%	155/500 [00:55<02:09, 2.66it/s]
Power Factorization: 31%	156/500 [00:55<02:10, 2.64it/s]
Power Factorization: 31%	157/500 [00:56<02:09, 2.65it/s]
Power Factorization: 32%	158/500 [00:56<02:06, 2.69it/s]
Power Factorization: 32%	159/500 [00:56<02:07, 2.68it/s]
Power Factorization: 32%	160/500 [00:57<02:04, 2.73it/s]
Power Factorization: 32%	161/500 [00:57<02:05, 2.69it/s]
Power Factorization: 32%	162/500 [00:58<02:04, 2.71it/s]
Power Factorization: 33%	163/500 [00:58<02:02, 2.76it/s]
Power Factorization: 33%	164/500 [00:58<02:01, 2.76it/s]
Power Factorization: 33%	165/500 [00:59<01:56, 2.87it/s]

Power Factorization: 33%	166/500 [00:59<02:01, 2.75it/s]
Power Factorization: 33%	167/500 [00:59<01:59, 2.78it/s]
Power Factorization: 34%	168/500 [01:00<01:57, 2.82it/s]
Power Factorization: 34%	169/500 [01:00<01:58, 2.78it/s]
Power Factorization: 34%	170/500 [01:00<02:00, 2.74it/s]
Power Factorization: 34%	171/500 [01:01<02:02, 2.68it/s]
Power Factorization: 34%	172/500 [01:01<01:58, 2.76it/s]
Power Factorization: 35%	173/500 [01:02<02:02, 2.66it/s]
Power Factorization: 35%	174/500 [01:02<02:04, 2.62it/s]
Power Factorization: 35%	175/500 [01:02<02:03, 2.64it/s]
Power Factorization: 35%	176/500 [01:03<02:01, 2.66it/s]
Power Factorization: 35%	177/500 [01:03<02:01, 2.65it/s]
Power Factorization: 36%	178/500 [01:03<02:00, 2.68it/s]
Power Factorization: 36%	179/500 [01:04<02:00, 2.66it/s]
Power Factorization: 36%	180/500 [01:04<01:55, 2.78it/s]
Power Factorization: 36%	181/500 [01:04<01:56, 2.74it/s]
Power Factorization: 36%	182/500 [01:05<01:56, 2.73it/s]
Power Factorization: 37%	183/500 [01:05<01:54, 2.78it/s]
Power Factorization: 37%	184/500 [01:06<01:52, 2.81it/s]
Power Factorization: 37%	185/500 [01:06<01:50, 2.86it/s]
Power Factorization: 37%	186/500 [01:06<01:51, 2.81it/s]
Power Factorization: 37%	187/500 [01:07<01:52, 2.77it/s]
Power Factorization: 38%	188/500 [01:07<01:51, 2.79it/s]
Power Factorization: 38%	189/500 [01:07<01:48, 2.86it/s]

Power Factorization: 38%	190/500 [01:08<01:44,	2.98it/s]
Power Factorization: 38%	191/500 [01:08<01:47,	2.89it/s]
Power Factorization: 38%	192/500 [01:08<01:46,	2.88it/s]
Power Factorization: 39%	193/500 [01:09<01:45,	2.90it/s]
Power Factorization: 39%	194/500 [01:09<01:51,	2.74it/s]
Power Factorization: 39%	195/500 [01:09<01:48,	2.81it/s]
Power Factorization: 39%	196/500 [01:10<01:48,	2.79it/s]
Power Factorization: 39%	197/500 [01:10<01:50,	2.75it/s]
Power Factorization: 40%	198/500 [01:11<01:58,	2.54it/s]
Power Factorization: 40%	199/500 [01:11<01:52,	2.67it/s]
Power Factorization: 40%	200/500 [01:11<01:53,	2.64it/s]
Power Factorization: 40%	201/500 [01:12<01:53,	2.63it/s]
Power Factorization: 40%	202/500 [01:12<01:55,	2.57it/s]
Power Factorization: 41%	203/500 [01:12<01:54,	2.60it/s]
Power Factorization: 41%	204/500 [01:13<01:48,	2.74it/s]
Power Factorization: 41%	205/500 [01:13<01:48,	2.73it/s]
Power Factorization: 41%	206/500 [01:14<01:47,	2.72it/s]
Power Factorization: 41%	207/500 [01:14<01:52,	2.60it/s]
Power Factorization: 42%	208/500 [01:14<01:53,	2.58it/s]
Power Factorization: 42%	209/500 [01:15<01:54,	2.55it/s]
Power Factorization: 42%	210/500 [01:15<01:52,	2.58it/s]
Power Factorization: 42%	211/500 [01:15<01:47,	2.68it/s]
Power Factorization: 42%	212/500 [01:16<01:49,	2.64it/s]
Power Factorization: 43%	213/500 [01:16<01:48,	2.65it/s]

Power Factorization: 43%	214/500 [01:17<01:46, 2.68it/s]
Power Factorization: 43%	215/500 [01:17<01:40, 2.83it/s]
Power Factorization: 43%	216/500 [01:17<01:41, 2.81it/s]
Power Factorization: 43%	217/500 [01:18<01:38, 2.88it/s]
Power Factorization: 44%	218/500 [01:18<01:32, 3.06it/s]
Power Factorization: 44%	219/500 [01:18<01:40, 2.80it/s]
Power Factorization: 44%	220/500 [01:19<01:36, 2.91it/s]
Power Factorization: 44%	221/500 [01:19<01:38, 2.82it/s]
Power Factorization: 44%	222/500 [01:19<01:39, 2.81it/s]
Power Factorization: 45%	223/500 [01:20<01:40, 2.76it/s]
Power Factorization: 45%	224/500 [01:20<01:41, 2.72it/s]
Power Factorization: 45%	225/500 [01:20<01:39, 2.77it/s]
Power Factorization: 45%	226/500 [01:21<01:40, 2.72it/s]
Power Factorization: 45%	227/500 [01:21<01:43, 2.65it/s]
Power Factorization: 46%	228/500 [01:22<01:42, 2.64it/s]
Power Factorization: 46%	229/500 [01:22<01:37, 2.78it/s]
Power Factorization: 46%	230/500 [01:22<01:38, 2.74it/s]
Power Factorization: 46%	231/500 [01:23<01:35, 2.81it/s]
Power Factorization: 46%	232/500 [01:23<01:31, 2.92it/s]
Power Factorization: 47%	233/500 [01:23<01:40, 2.66it/s]
Power Factorization: 47%	234/500 [01:24<01:41, 2.63it/s]
Power Factorization: 47%	235/500 [01:24<01:38, 2.68it/s]
Power Factorization: 47%	236/500 [01:25<01:42, 2.58it/s]
Power Factorization: 47%	237/500 [01:25<01:39, 2.64it/s]

Power Factorization: 48%	238/500 [01:25<01:34, 2.78it/s]
Power Factorization: 48%	239/500 [01:26<01:33, 2.79it/s]
Power Factorization: 48%	240/500 [01:26<01:37, 2.68it/s]
Power Factorization: 48%	241/500 [01:26<01:36, 2.68it/s]
Power Factorization: 48%	242/500 [01:27<01:35, 2.70it/s]
Power Factorization: 49%	243/500 [01:27<01:34, 2.73it/s]
Power Factorization: 49%	244/500 [01:27<01:31, 2.79it/s]
Power Factorization: 49%	245/500 [01:28<01:31, 2.80it/s]
Power Factorization: 49%	246/500 [01:28<01:30, 2.79it/s]
Power Factorization: 49%	247/500 [01:29<01:34, 2.68it/s]
Power Factorization: 50%	248/500 [01:29<01:34, 2.65it/s]
Power Factorization: 50%	249/500 [01:29<01:32, 2.72it/s]
Power Factorization: 50%	250/500 [01:30<01:33, 2.66it/s]
Power Factorization: 50%	251/500 [01:30<01:35, 2.60it/s]
Power Factorization: 50%	252/500 [01:30<01:33, 2.64it/s]
Power Factorization: 51%	253/500 [01:31<01:32, 2.66it/s]
Power Factorization: 51%	254/500 [01:31<01:30, 2.70it/s]
Power Factorization: 51%	255/500 [01:32<01:35, 2.58it/s]
Power Factorization: 51%	256/500 [01:32<01:34, 2.59it/s]
Power Factorization: 51%	257/500 [01:32<01:31, 2.66it/s]
Power Factorization: 52%	258/500 [01:33<01:35, 2.55it/s]
Power Factorization: 52%	259/500 [01:33<01:36, 2.49it/s]
Power Factorization: 52%	260/500 [01:34<01:33, 2.57it/s]
Power Factorization: 52%	261/500 [01:34<01:32, 2.58it/s]

Power Factorization: 52%	262/500 [01:34<01:31, 2.60it/s]
Power Factorization: 53%	263/500 [01:35<01:29, 2.64it/s]
Power Factorization: 53%	264/500 [01:35<01:25, 2.77it/s]
Power Factorization: 53%	265/500 [01:35<01:24, 2.78it/s]
Power Factorization: 53%	266/500 [01:36<01:22, 2.85it/s]
Power Factorization: 53%	267/500 [01:36<01:21, 2.87it/s]
Power Factorization: 54%	268/500 [01:36<01:21, 2.83it/s]
Power Factorization: 54%	269/500 [01:37<01:23, 2.75it/s]
Power Factorization: 54%	270/500 [01:37<01:23, 2.74it/s]
Power Factorization: 54%	271/500 [01:38<01:23, 2.73it/s]
Power Factorization: 54%	272/500 [01:38<01:24, 2.69it/s]
Power Factorization: 55%	273/500 [01:38<01:24, 2.67it/s]
Power Factorization: 55%	274/500 [01:39<01:26, 2.62it/s]
Power Factorization: 55%	275/500 [01:39<01:27, 2.59it/s]
Power Factorization: 55%	276/500 [01:39<01:24, 2.64it/s]
Power Factorization: 55%	277/500 [01:40<01:22, 2.70it/s]
Power Factorization: 56%	278/500 [01:40<01:21, 2.72it/s]
Power Factorization: 56%	279/500 [01:41<01:18, 2.81it/s]
Power Factorization: 56%	280/500 [01:41<01:18, 2.80it/s]
Power Factorization: 56%	281/500 [01:41<01:18, 2.79it/s]
Power Factorization: 56%	282/500 [01:42<01:16, 2.87it/s]
Power Factorization: 57%	283/500 [01:42<01:19, 2.74it/s]
Power Factorization: 57%	284/500 [01:42<01:18, 2.75it/s]
Power Factorization: 57%	285/500 [01:43<01:20, 2.66it/s]

Power Factorization: 57%	286/500 [01:43<01:20, 2.65it/s]
Power Factorization: 57%	287/500 [01:44<01:21, 2.61it/s]
Power Factorization: 58%	288/500 [01:44<01:22, 2.58it/s]
Power Factorization: 58%	289/500 [01:44<01:18, 2.68it/s]
Power Factorization: 58%	290/500 [01:45<01:22, 2.53it/s]
Power Factorization: 58%	291/500 [01:45<01:22, 2.55it/s]
Power Factorization: 58%	292/500 [01:45<01:23, 2.50it/s]
Power Factorization: 59%	293/500 [01:46<01:23, 2.49it/s]
Power Factorization: 59%	294/500 [01:46<01:22, 2.51it/s]
Power Factorization: 59%	295/500 [01:47<01:20, 2.55it/s]
Power Factorization: 59%	296/500 [01:47<01:20, 2.54it/s]
Power Factorization: 59%	297/500 [01:47<01:17, 2.61it/s]
Power Factorization: 60%	298/500 [01:48<01:17, 2.61it/s]
Power Factorization: 60%	299/500 [01:48<01:15, 2.65it/s]
Power Factorization: 60%	300/500 [01:49<01:15, 2.65it/s]
Power Factorization: 60%	301/500 [01:49<01:15, 2.64it/s]
Power Factorization: 60%	302/500 [01:49<01:21, 2.43it/s]
Power Factorization: 61%	303/500 [01:50<01:17, 2.55it/s]
Power Factorization: 61%	304/500 [01:50<01:16, 2.55it/s]
Power Factorization: 61%	305/500 [01:51<01:14, 2.60it/s]
Power Factorization: 61%	306/500 [01:51<01:14, 2.60it/s]
Power Factorization: 61%	307/500 [01:51<01:14, 2.60it/s]
Power Factorization: 62%	308/500 [01:52<01:15, 2.54it/s]
Power Factorization: 62%	309/500 [01:52<01:11, 2.66it/s]

Power Factorization: 62%	310/500 [01:52<01:15, 2.51it/s]
Power Factorization: 62%	311/500 [01:53<01:15, 2.52it/s]
Power Factorization: 62%	312/500 [01:53<01:11, 2.62it/s]
Power Factorization: 63%	313/500 [01:54<01:06, 2.79it/s]
Power Factorization: 63%	314/500 [01:54<01:05, 2.82it/s]
Power Factorization: 63%	315/500 [01:54<01:06, 2.77it/s]
Power Factorization: 63%	316/500 [01:55<01:14, 2.47it/s]
Power Factorization: 63%	317/500 [01:55<01:10, 2.59it/s]
Power Factorization: 64%	318/500 [01:55<01:06, 2.72it/s]
Power Factorization: 64%	319/500 [01:56<01:05, 2.77it/s]
Power Factorization: 64%	320/500 [01:56<01:03, 2.82it/s]
Power Factorization: 64%	321/500 [01:56<01:02, 2.86it/s]
Power Factorization: 64%	322/500 [01:57<01:02, 2.87it/s]
Power Factorization: 65%	323/500 [01:57<01:01, 2.90it/s]
Power Factorization: 65%	324/500 [01:57<00:59, 2.93it/s]
Power Factorization: 65%	325/500 [01:58<01:01, 2.87it/s]
Power Factorization: 65%	326/500 [01:58<01:05, 2.65it/s]
Power Factorization: 65%	327/500 [01:59<01:05, 2.63it/s]
Power Factorization: 66%	328/500 [01:59<01:02, 2.77it/s]
Power Factorization: 66%	329/500 [01:59<01:00, 2.84it/s]
Power Factorization: 66%	330/500 [02:00<00:58, 2.91it/s]
Power Factorization: 66%	331/500 [02:00<00:59, 2.82it/s]
Power Factorization: 66%	332/500 [02:00<01:00, 2.79it/s]
Power Factorization: 67%	333/500 [02:01<00:58, 2.85it/s]

Power Factorization: 67%	334/500 [02:01<00:58, 2.83it/s]
Power Factorization: 67%	335/500 [02:01<00:57, 2.86it/s]
Power Factorization: 67%	336/500 [02:02<00:55, 2.96it/s]
Power Factorization: 67%	337/500 [02:02<00:55, 2.93it/s]
Power Factorization: 68%	338/500 [02:02<00:57, 2.81it/s]
Power Factorization: 68%	339/500 [02:03<00:56, 2.83it/s]
Power Factorization: 68%	340/500 [02:03<00:56, 2.85it/s]
Power Factorization: 68%	341/500 [02:04<00:57, 2.75it/s]
Power Factorization: 68%	342/500 [02:04<00:57, 2.76it/s]
Power Factorization: 69%	343/500 [02:04<00:58, 2.68it/s]
Power Factorization: 69%	344/500 [02:05<00:56, 2.76it/s]
Power Factorization: 69%	345/500 [02:05<00:55, 2.80it/s]
Power Factorization: 69%	346/500 [02:05<00:54, 2.83it/s]
Power Factorization: 69%	347/500 [02:06<00:53, 2.87it/s]
Power Factorization: 70%	348/500 [02:06<00:57, 2.66it/s]
Power Factorization: 70%	349/500 [02:06<00:56, 2.69it/s]
Power Factorization: 70%	350/500 [02:07<00:55, 2.73it/s]
Power Factorization: 70%	351/500 [02:07<00:54, 2.71it/s]
Power Factorization: 70%	352/500 [02:08<00:54, 2.73it/s]
Power Factorization: 71%	353/500 [02:08<00:52, 2.79it/s]
Power Factorization: 71%	354/500 [02:08<00:51, 2.81it/s]
Power Factorization: 71%	355/500 [02:09<00:51, 2.82it/s]
Power Factorization: 71%	356/500 [02:09<00:52, 2.76it/s]
Power Factorization: 71%	357/500 [02:09<00:52, 2.75it/s]

Power Factorization: 72%	358/500 [02:10<00:50, 2.79it/s]
Power Factorization: 72%	359/500 [02:10<00:52, 2.67it/s]
Power Factorization: 72%	360/500 [02:10<00:51, 2.72it/s]
Power Factorization: 72%	361/500 [02:11<00:54, 2.54it/s]
Power Factorization: 72%	362/500 [02:11<00:55, 2.49it/s]
Power Factorization: 73%	363/500 [02:12<00:53, 2.54it/s]
Power Factorization: 73%	364/500 [02:12<00:52, 2.57it/s]
Power Factorization: 73%	365/500 [02:12<00:51, 2.63it/s]
Power Factorization: 73%	366/500 [02:13<00:51, 2.62it/s]
Power Factorization: 73%	367/500 [02:13<00:51, 2.59it/s]
Power Factorization: 74%	368/500 [02:14<00:49, 2.68it/s]
Power Factorization: 74%	369/500 [02:14<00:49, 2.64it/s]
Power Factorization: 74%	370/500 [02:14<00:47, 2.74it/s]
Power Factorization: 74%	371/500 [02:15<00:49, 2.60it/s]
Power Factorization: 74%	372/500 [02:15<00:47, 2.72it/s]
Power Factorization: 75%	373/500 [02:15<00:46, 2.73it/s]
Power Factorization: 75%	374/500 [02:16<00:49, 2.56it/s]
Power Factorization: 75%	375/500 [02:16<00:48, 2.58it/s]
Power Factorization: 75%	376/500 [02:17<00:49, 2.48it/s]
Power Factorization: 75%	377/500 [02:17<00:49, 2.48it/s]
Power Factorization: 76%	378/500 [02:17<00:47, 2.56it/s]
Power Factorization: 76%	379/500 [02:18<00:46, 2.63it/s]
Power Factorization: 76%	380/500 [02:18<00:45, 2.64it/s]
Power Factorization: 76%	381/500 [02:19<00:44, 2.66it/s]

Power Factorization: 76%	382/500 [02:19<00:44,	2.65it/s]
Power Factorization: 77%	383/500 [02:19<00:43,	2.68it/s]
Power Factorization: 77%	384/500 [02:20<00:44,	2.62it/s]
Power Factorization: 77%	385/500 [02:20<00:44,	2.56it/s]
Power Factorization: 77%	386/500 [02:20<00:43,	2.60it/s]
Power Factorization: 77%	387/500 [02:21<00:42,	2.67it/s]
Power Factorization: 78%	388/500 [02:21<00:42,	2.67it/s]
Power Factorization: 78%	389/500 [02:22<00:40,	2.75it/s]
Power Factorization: 78%	390/500 [02:22<00:41,	2.66it/s]
Power Factorization: 78%	391/500 [02:22<00:39,	2.78it/s]
Power Factorization: 78%	392/500 [02:23<00:39,	2.70it/s]
Power Factorization: 79%	393/500 [02:23<00:39,	2.70it/s]
Power Factorization: 79%	394/500 [02:23<00:38,	2.75it/s]
Power Factorization: 79%	395/500 [02:24<00:37,	2.79it/s]
Power Factorization: 79%	396/500 [02:24<00:39,	2.67it/s]
Power Factorization: 79%	397/500 [02:25<00:38,	2.66it/s]
Power Factorization: 80%	398/500 [02:25<00:37,	2.69it/s]
Power Factorization: 80%	399/500 [02:25<00:37,	2.68it/s]
Power Factorization: 80%	400/500 [02:26<00:36,	2.73it/s]
Power Factorization: 80%	401/500 [02:26<00:36,	2.70it/s]
Power Factorization: 80%	402/500 [02:26<00:35,	2.77it/s]
Power Factorization: 81%	403/500 [02:27<00:35,	2.72it/s]
Power Factorization: 81%	404/500 [02:27<00:35,	2.67it/s]
Power Factorization: 81%	405/500 [02:28<00:36,	2.58it/s]

Power Factorization: 81%	406/500 [02:28<00:34,	2.70it/s]
Power Factorization: 81%	407/500 [02:28<00:35,	2.64it/s]
Power Factorization: 82%	408/500 [02:29<00:35,	2.61it/s]
Power Factorization: 82%	409/500 [02:29<00:34,	2.61it/s]
Power Factorization: 82%	410/500 [02:29<00:33,	2.65it/s]
Power Factorization: 82%	411/500 [02:30<00:36,	2.41it/s]
Power Factorization: 82%	412/500 [02:30<00:35,	2.49it/s]
Power Factorization: 83%	413/500 [02:31<00:34,	2.54it/s]
Power Factorization: 83%	414/500 [02:31<00:33,	2.59it/s]
Power Factorization: 83%	415/500 [02:31<00:32,	2.63it/s]
Power Factorization: 83%	416/500 [02:32<00:32,	2.61it/s]
Power Factorization: 83%	417/500 [02:32<00:31,	2.65it/s]
Power Factorization: 84%	418/500 [02:32<00:29,	2.79it/s]
Power Factorization: 84%	419/500 [02:33<00:29,	2.75it/s]
Power Factorization: 84%	420/500 [02:33<00:28,	2.78it/s]
Power Factorization: 84%	421/500 [02:34<00:28,	2.78it/s]
Power Factorization: 84%	422/500 [02:34<00:28,	2.78it/s]
Power Factorization: 85%	423/500 [02:34<00:28,	2.68it/s]
Power Factorization: 85%	424/500 [02:35<00:27,	2.75it/s]
Power Factorization: 85%	425/500 [02:35<00:29,	2.56it/s]
Power Factorization: 85%	426/500 [02:35<00:28,	2.59it/s]
Power Factorization: 85%	427/500 [02:36<00:27,	2.65it/s]
Power Factorization: 86%	428/500 [02:36<00:26,	2.72it/s]
Power Factorization: 86%	429/500 [02:37<00:25,	2.74it/s]

Power Factorization: 86%	430/500 [02:37<00:25,	2.76it/s]
Power Factorization: 86%	431/500 [02:37<00:25,	2.73it/s]
Power Factorization: 86%	432/500 [02:38<00:24,	2.73it/s]
Power Factorization: 87%	433/500 [02:38<00:25,	2.59it/s]
Power Factorization: 87%	434/500 [02:38<00:25,	2.60it/s]
Power Factorization: 87%	435/500 [02:39<00:24,	2.64it/s]
Power Factorization: 87%	436/500 [02:39<00:23,	2.67it/s]
Power Factorization: 87%	437/500 [02:40<00:23,	2.69it/s]
Power Factorization: 88%	438/500 [02:40<00:23,	2.67it/s]
Power Factorization: 88%	439/500 [02:40<00:25,	2.38it/s]
Power Factorization: 88%	440/500 [02:41<00:23,	2.51it/s]
Power Factorization: 88%	441/500 [02:41<00:22,	2.61it/s]
Power Factorization: 88%	442/500 [02:42<00:22,	2.55it/s]
Power Factorization: 89%	443/500 [02:42<00:22,	2.54it/s]
Power Factorization: 89%	444/500 [02:42<00:21,	2.60it/s]
Power Factorization: 89%	445/500 [02:43<00:20,	2.63it/s]
Power Factorization: 89%	446/500 [02:43<00:20,	2.61it/s]
Power Factorization: 89%	447/500 [02:43<00:19,	2.66it/s]
Power Factorization: 90%	448/500 [02:44<00:20,	2.55it/s]
Power Factorization: 90%	449/500 [02:44<00:20,	2.53it/s]
Power Factorization: 90%	450/500 [02:45<00:19,	2.53it/s]
Power Factorization: 90%	451/500 [02:45<00:18,	2.58it/s]
Power Factorization: 90%	452/500 [02:45<00:18,	2.59it/s]
Power Factorization: 91%	453/500 [02:46<00:18,	2.56it/s]

Power Factorization: 91%	454/500 [02:46<00:17, 2.57it/s]
Power Factorization: 91%	455/500 [02:47<00:17, 2.62it/s]
Power Factorization: 91%	456/500 [02:47<00:17, 2.58it/s]
Power Factorization: 91%	457/500 [02:47<00:16, 2.62it/s]
Power Factorization: 92%	458/500 [02:48<00:16, 2.59it/s]
Power Factorization: 92%	459/500 [02:48<00:15, 2.62it/s]
Power Factorization: 92%	460/500 [02:48<00:14, 2.69it/s]
Power Factorization: 92%	461/500 [02:49<00:14, 2.69it/s]
Power Factorization: 92%	462/500 [02:49<00:14, 2.67it/s]
Power Factorization: 93%	463/500 [02:50<00:14, 2.62it/s]
Power Factorization: 93%	464/500 [02:50<00:14, 2.57it/s]
Power Factorization: 93%	465/500 [02:50<00:13, 2.53it/s]
Power Factorization: 93%	466/500 [02:51<00:13, 2.59it/s]
Power Factorization: 93%	467/500 [02:51<00:12, 2.59it/s]
Power Factorization: 94%	468/500 [02:52<00:12, 2.60it/s]
Power Factorization: 94%	469/500 [02:52<00:12, 2.55it/s]
Power Factorization: 94%	470/500 [02:52<00:11, 2.61it/s]
Power Factorization: 94%	471/500 [02:53<00:10, 2.64it/s]
Power Factorization: 94%	472/500 [02:53<00:11, 2.54it/s]
Power Factorization: 95%	473/500 [02:54<00:10, 2.56it/s]
Power Factorization: 95%	474/500 [02:54<00:10, 2.48it/s]
Power Factorization: 95%	475/500 [02:54<00:09, 2.55it/s]
Power Factorization: 95%	476/500 [02:55<00:09, 2.46it/s]
Power Factorization: 95%	477/500 [02:55<00:09, 2.43it/s]

Power Factorization: 96%	478/500 [02:56<00:08, 2.45it/s]
Power Factorization: 96%	479/500 [02:56<00:08, 2.50it/s]
Power Factorization: 96%	480/500 [02:56<00:07, 2.61it/s]
Power Factorization: 96%	481/500 [02:57<00:07, 2.61it/s]
Power Factorization: 96%	482/500 [02:57<00:07, 2.54it/s]
Power Factorization: 97%	483/500 [02:57<00:06, 2.56it/s]
Power Factorization: 97%	484/500 [02:58<00:06, 2.66it/s]
Power Factorization: 97%	485/500 [02:58<00:05, 2.65it/s]
Power Factorization: 97%	486/500 [02:59<00:05, 2.62it/s]
Power Factorization: 97%	487/500 [02:59<00:04, 2.65it/s]
Power Factorization: 98%	488/500 [02:59<00:04, 2.58it/s]
Power Factorization: 98%	489/500 [03:00<00:04, 2.70it/s]
Power Factorization: 98%	490/500 [03:00<00:03, 2.61it/s]
Power Factorization: 98%	491/500 [03:00<00:03, 2.62it/s]
Power Factorization: 98%	492/500 [03:01<00:02, 2.68it/s]
Power Factorization: 99%	493/500 [03:01<00:02, 2.69it/s]
Power Factorization: 99%	494/500 [03:02<00:02, 2.69it/s]
Power Factorization: 99%	495/500 [03:02<00:01, 2.77it/s]
Power Factorization: 99%	496/500 [03:02<00:01, 2.70it/s]
Power Factorization: 99%	497/500 [03:03<00:01, 2.63it/s]
Power Factorization: 100%	498/500 [03:03<00:00, 2.61it/s]
Power Factorization: 100%	499/500 [03:03<00:00, 2.64it/s]
Power Factorization: 100%	500/500 [03:04<00:00, 2.71it/s]
Cross Validation: 80%	4/5 [12:00<03:01, 181.42s/it]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<03:03, 2.72it/s]
Power Factorization:	0%	2/500 [00:00<03:07, 2.65it/s]
Power Factorization:	1%	3/500 [00:01<03:20, 2.47it/s]
Power Factorization:	1%	4/500 [00:01<03:17, 2.52it/s]
Power Factorization:	1%	5/500 [00:01<03:14, 2.55it/s]
Power Factorization:	1%	6/500 [00:02<03:13, 2.55it/s]
Power Factorization:	1%	7/500 [00:02<03:20, 2.46it/s]
Power Factorization:	2%	8/500 [00:03<03:19, 2.47it/s]
Power Factorization:	2%	9/500 [00:03<03:11, 2.56it/s]
Power Factorization:	2%	10/500 [00:03<03:13, 2.53it/s]
Power Factorization:	2%	11/500 [00:04<03:16, 2.49it/s]
Power Factorization:	2%	12/500 [00:04<03:14, 2.51it/s]
Power Factorization:	3%	13/500 [00:05<03:07, 2.60it/s]
Power Factorization:	3%	14/500 [00:05<03:11, 2.54it/s]
Power Factorization:	3%	15/500 [00:05<03:12, 2.53it/s]
Power Factorization:	3%	16/500 [00:06<03:05, 2.61it/s]
Power Factorization:	3%	17/500 [00:06<03:11, 2.52it/s]
Power Factorization:	4%	18/500 [00:07<03:10, 2.53it/s]
Power Factorization:	4%	19/500 [00:07<03:05, 2.59it/s]
Power Factorization:	4%	20/500 [00:07<03:02, 2.63it/s]
Power Factorization:	4%	21/500 [00:08<03:02, 2.63it/s]
Power Factorization:	4%	22/500 [00:08<02:58, 2.68it/s]
Power Factorization:	5%	23/500 [00:08<02:51, 2.78it/s]

Power Factorization:	5%	24/500	[00:09<02:49,	2.81it/s]
Power Factorization:	5%	25/500	[00:09<02:53,	2.74it/s]
Power Factorization:	5%	26/500	[00:10<02:55,	2.70it/s]
Power Factorization:	5%	27/500	[00:10<02:59,	2.64it/s]
Power Factorization:	6%	28/500	[00:10<03:23,	2.32it/s]
Power Factorization:	6%	29/500	[00:11<03:15,	2.41it/s]
Power Factorization:	6%	30/500	[00:11<03:00,	2.60it/s]
Power Factorization:	6%	31/500	[00:12<03:00,	2.59it/s]
Power Factorization:	6%	32/500	[00:12<02:59,	2.61it/s]
Power Factorization:	7%	33/500	[00:12<03:00,	2.59it/s]
Power Factorization:	7%	34/500	[00:13<03:00,	2.58it/s]
Power Factorization:	7%	35/500	[00:13<03:02,	2.55it/s]
Power Factorization:	7%	36/500	[00:14<03:04,	2.52it/s]
Power Factorization:	7%	37/500	[00:14<02:58,	2.59it/s]
Power Factorization:	8%	38/500	[00:14<03:09,	2.44it/s]
Power Factorization:	8%	39/500	[00:15<03:05,	2.49it/s]
Power Factorization:	8%	40/500	[00:15<03:00,	2.55it/s]
Power Factorization:	8%	41/500	[00:15<02:59,	2.56it/s]
Power Factorization:	8%	42/500	[00:16<02:53,	2.64it/s]
Power Factorization:	9%	43/500	[00:16<03:01,	2.52it/s]
Power Factorization:	9%	44/500	[00:17<02:57,	2.57it/s]
Power Factorization:	9%	45/500	[00:17<03:03,	2.49it/s]
Power Factorization:	9%	46/500	[00:17<02:57,	2.56it/s]
Power Factorization:	9%	47/500	[00:18<02:58,	2.54it/s]

Power Factorization: 10%	48/500 [00:18<03:00, 2.51it/s]
Power Factorization: 10%	49/500 [00:19<02:53, 2.60it/s]
Power Factorization: 10%	50/500 [00:19<02:58, 2.52it/s]
Power Factorization: 10%	51/500 [00:19<03:00, 2.49it/s]
Power Factorization: 10%	52/500 [00:20<03:03, 2.45it/s]
Power Factorization: 11%	53/500 [00:20<03:00, 2.48it/s]
Power Factorization: 11%	54/500 [00:21<02:55, 2.54it/s]
Power Factorization: 11%	55/500 [00:21<02:51, 2.59it/s]
Power Factorization: 11%	56/500 [00:21<02:54, 2.54it/s]
Power Factorization: 11%	57/500 [00:22<02:51, 2.58it/s]
Power Factorization: 12%	58/500 [00:22<02:51, 2.58it/s]
Power Factorization: 12%	59/500 [00:23<02:46, 2.65it/s]
Power Factorization: 12%	60/500 [00:23<02:43, 2.68it/s]
Power Factorization: 12%	61/500 [00:23<02:45, 2.65it/s]
Power Factorization: 12%	62/500 [00:24<02:51, 2.56it/s]
Power Factorization: 13%	63/500 [00:24<02:48, 2.60it/s]
Power Factorization: 13%	64/500 [00:24<02:49, 2.57it/s]
Power Factorization: 13%	65/500 [00:25<02:49, 2.57it/s]
Power Factorization: 13%	66/500 [00:25<02:46, 2.61it/s]
Power Factorization: 13%	67/500 [00:26<02:42, 2.67it/s]
Power Factorization: 14%	68/500 [00:26<02:40, 2.69it/s]
Power Factorization: 14%	69/500 [00:26<02:46, 2.59it/s]
Power Factorization: 14%	70/500 [00:27<02:42, 2.64it/s]
Power Factorization: 14%	71/500 [00:27<02:45, 2.59it/s]

Power Factorization: 14%	72/500 [00:27<02:42, 2.63it/s]
Power Factorization: 15%	73/500 [00:28<02:46, 2.57it/s]
Power Factorization: 15%	74/500 [00:28<02:48, 2.53it/s]
Power Factorization: 15%	75/500 [00:29<02:49, 2.51it/s]
Power Factorization: 15%	76/500 [00:29<02:44, 2.58it/s]
Power Factorization: 15%	77/500 [00:30<02:47, 2.52it/s]
Power Factorization: 16%	78/500 [00:30<02:47, 2.51it/s]
Power Factorization: 16%	79/500 [00:30<02:42, 2.59it/s]
Power Factorization: 16%	80/500 [00:31<02:37, 2.67it/s]
Power Factorization: 16%	81/500 [00:31<02:43, 2.57it/s]
Power Factorization: 16%	82/500 [00:31<02:37, 2.66it/s]
Power Factorization: 17%	83/500 [00:32<02:41, 2.58it/s]
Power Factorization: 17%	84/500 [00:32<02:39, 2.61it/s]
Power Factorization: 17%	85/500 [00:33<02:41, 2.57it/s]
Power Factorization: 17%	86/500 [00:33<02:42, 2.54it/s]
Power Factorization: 17%	87/500 [00:33<02:38, 2.60it/s]
Power Factorization: 18%	88/500 [00:34<02:35, 2.65it/s]
Power Factorization: 18%	89/500 [00:34<02:41, 2.55it/s]
Power Factorization: 18%	90/500 [00:34<02:35, 2.63it/s]
Power Factorization: 18%	91/500 [00:35<02:36, 2.62it/s]
Power Factorization: 18%	92/500 [00:35<02:43, 2.49it/s]
Power Factorization: 19%	93/500 [00:36<02:42, 2.50it/s]
Power Factorization: 19%	94/500 [00:36<02:51, 2.37it/s]
Power Factorization: 19%	95/500 [00:37<02:43, 2.48it/s]

Power Factorization: 19%	96/500 [00:37<02:39, 2.54it/s]
Power Factorization: 19%	97/500 [00:37<02:35, 2.60it/s]
Power Factorization: 20%	98/500 [00:38<02:31, 2.64it/s]
Power Factorization: 20%	99/500 [00:38<02:29, 2.68it/s]
Power Factorization: 20%	100/500 [00:38<02:28, 2.68it/s]
Power Factorization: 20%	101/500 [00:39<02:26, 2.73it/s]
Power Factorization: 20%	102/500 [00:39<02:25, 2.74it/s]
Power Factorization: 21%	103/500 [00:39<02:27, 2.70it/s]
Power Factorization: 21%	104/500 [00:40<02:28, 2.67it/s]
Power Factorization: 21%	105/500 [00:40<02:29, 2.64it/s]
Power Factorization: 21%	106/500 [00:41<02:29, 2.64it/s]
Power Factorization: 21%	107/500 [00:41<02:30, 2.61it/s]
Power Factorization: 22%	108/500 [00:42<02:43, 2.39it/s]
Power Factorization: 22%	109/500 [00:42<02:38, 2.47it/s]
Power Factorization: 22%	110/500 [00:42<02:46, 2.34it/s]
Power Factorization: 22%	111/500 [00:43<02:44, 2.37it/s]
Power Factorization: 22%	112/500 [00:43<02:41, 2.40it/s]
Power Factorization: 23%	113/500 [00:44<02:35, 2.48it/s]
Power Factorization: 23%	114/500 [00:44<02:31, 2.55it/s]
Power Factorization: 23%	115/500 [00:44<02:28, 2.59it/s]
Power Factorization: 23%	116/500 [00:45<02:30, 2.55it/s]
Power Factorization: 23%	117/500 [00:45<02:23, 2.66it/s]
Power Factorization: 24%	118/500 [00:46<02:34, 2.47it/s]
Power Factorization: 24%	119/500 [00:46<02:34, 2.46it/s]

Power Factorization: 24%	120/500 [00:46<02:29, 2.55it/s]
Power Factorization: 24%	121/500 [00:47<02:27, 2.56it/s]
Power Factorization: 24%	122/500 [00:47<02:29, 2.53it/s]
Power Factorization: 25%	123/500 [00:47<02:29, 2.52it/s]
Power Factorization: 25%	124/500 [00:48<02:27, 2.56it/s]
Power Factorization: 25%	125/500 [00:48<02:35, 2.41it/s]
Power Factorization: 25%	126/500 [00:49<02:31, 2.47it/s]
Power Factorization: 25%	127/500 [00:49<02:28, 2.51it/s]
Power Factorization: 26%	128/500 [00:50<02:30, 2.48it/s]
Power Factorization: 26%	129/500 [00:50<02:44, 2.26it/s]
Power Factorization: 26%	130/500 [00:50<02:40, 2.30it/s]
Power Factorization: 26%	131/500 [00:51<02:34, 2.39it/s]
Power Factorization: 26%	132/500 [00:51<02:28, 2.48it/s]
Power Factorization: 27%	133/500 [00:52<02:25, 2.53it/s]
Power Factorization: 27%	134/500 [00:52<02:21, 2.59it/s]
Power Factorization: 27%	135/500 [00:52<02:19, 2.62it/s]
Power Factorization: 27%	136/500 [00:53<02:22, 2.56it/s]
Power Factorization: 27%	137/500 [00:53<02:18, 2.61it/s]
Power Factorization: 28%	138/500 [00:53<02:17, 2.63it/s]
Power Factorization: 28%	139/500 [00:54<02:14, 2.67it/s]
Power Factorization: 28%	140/500 [00:54<02:18, 2.60it/s]
Power Factorization: 28%	141/500 [00:55<02:17, 2.61it/s]
Power Factorization: 28%	142/500 [00:55<02:19, 2.56it/s]
Power Factorization: 29%	143/500 [00:55<02:17, 2.61it/s]

Power Factorization: 29%	144/500 [00:56<02:16, 2.60it/s]
Power Factorization: 29%	145/500 [00:56<02:17, 2.58it/s]
Power Factorization: 29%	146/500 [00:57<02:25, 2.44it/s]
Power Factorization: 29%	147/500 [00:57<02:23, 2.45it/s]
Power Factorization: 30%	148/500 [00:57<02:23, 2.46it/s]
Power Factorization: 30%	149/500 [00:58<02:20, 2.50it/s]
Power Factorization: 30%	150/500 [00:58<02:17, 2.54it/s]
Power Factorization: 30%	151/500 [00:59<02:14, 2.59it/s]
Power Factorization: 30%	152/500 [00:59<02:20, 2.49it/s]
Power Factorization: 31%	153/500 [00:59<02:24, 2.40it/s]
Power Factorization: 31%	154/500 [01:00<02:19, 2.48it/s]
Power Factorization: 31%	155/500 [01:00<02:16, 2.53it/s]
Power Factorization: 31%	156/500 [01:01<02:12, 2.60it/s]
Power Factorization: 31%	157/500 [01:01<02:09, 2.64it/s]
Power Factorization: 32%	158/500 [01:01<02:13, 2.56it/s]
Power Factorization: 32%	159/500 [01:02<02:10, 2.62it/s]
Power Factorization: 32%	160/500 [01:02<02:10, 2.60it/s]
Power Factorization: 32%	161/500 [01:02<02:06, 2.68it/s]
Power Factorization: 32%	162/500 [01:03<02:06, 2.67it/s]
Power Factorization: 33%	163/500 [01:03<02:06, 2.65it/s]
Power Factorization: 33%	164/500 [01:04<02:15, 2.48it/s]
Power Factorization: 33%	165/500 [01:04<02:13, 2.52it/s]
Power Factorization: 33%	166/500 [01:04<02:15, 2.46it/s]
Power Factorization: 33%	167/500 [01:05<02:18, 2.40it/s]

Power Factorization: 34%	168/500 [01:05<02:15,	2.45it/s]
Power Factorization: 34%	169/500 [01:06<02:13,	2.47it/s]
Power Factorization: 34%	170/500 [01:06<02:20,	2.34it/s]
Power Factorization: 34%	171/500 [01:07<02:16,	2.41it/s]
Power Factorization: 34%	172/500 [01:07<02:14,	2.44it/s]
Power Factorization: 35%	173/500 [01:07<02:09,	2.52it/s]
Power Factorization: 35%	174/500 [01:08<02:09,	2.51it/s]
Power Factorization: 35%	175/500 [01:08<02:09,	2.51it/s]
Power Factorization: 35%	176/500 [01:09<02:10,	2.49it/s]
Power Factorization: 35%	177/500 [01:09<02:07,	2.53it/s]
Power Factorization: 36%	178/500 [01:09<02:04,	2.58it/s]
Power Factorization: 36%	179/500 [01:10<02:06,	2.53it/s]
Power Factorization: 36%	180/500 [01:10<02:08,	2.49it/s]
Power Factorization: 36%	181/500 [01:11<02:12,	2.41it/s]
Power Factorization: 36%	182/500 [01:11<02:17,	2.31it/s]
Power Factorization: 37%	183/500 [01:11<02:16,	2.32it/s]
Power Factorization: 37%	184/500 [01:12<02:12,	2.38it/s]
Power Factorization: 37%	185/500 [01:12<02:07,	2.46it/s]
Power Factorization: 37%	186/500 [01:13<02:08,	2.45it/s]
Power Factorization: 37%	187/500 [01:13<02:17,	2.28it/s]
Power Factorization: 38%	188/500 [01:14<02:17,	2.27it/s]
Power Factorization: 38%	189/500 [01:14<02:09,	2.40it/s]
Power Factorization: 38%	190/500 [01:14<02:06,	2.45it/s]
Power Factorization: 38%	191/500 [01:15<02:04,	2.49it/s]

Power Factorization: 38%	192/500 [01:15<02:01, 2.54it/s]
Power Factorization: 39%	193/500 [01:15<01:57, 2.60it/s]
Power Factorization: 39%	194/500 [01:16<01:59, 2.57it/s]
Power Factorization: 39%	195/500 [01:16<01:56, 2.61it/s]
Power Factorization: 39%	196/500 [01:17<01:56, 2.62it/s]
Power Factorization: 39%	197/500 [01:17<01:52, 2.70it/s]
Power Factorization: 40%	198/500 [01:17<01:53, 2.65it/s]
Power Factorization: 40%	199/500 [01:18<01:54, 2.62it/s]
Power Factorization: 40%	200/500 [01:18<01:53, 2.64it/s]
Power Factorization: 40%	201/500 [01:19<01:56, 2.57it/s]
Power Factorization: 40%	202/500 [01:19<01:57, 2.53it/s]
Power Factorization: 41%	203/500 [01:19<01:58, 2.52it/s]
Power Factorization: 41%	204/500 [01:20<01:59, 2.47it/s]
Power Factorization: 41%	205/500 [01:20<01:55, 2.56it/s]
Power Factorization: 41%	206/500 [01:21<01:55, 2.56it/s]
Power Factorization: 41%	207/500 [01:21<01:52, 2.60it/s]
Power Factorization: 42%	208/500 [01:21<01:49, 2.68it/s]
Power Factorization: 42%	209/500 [01:22<01:50, 2.64it/s]
Power Factorization: 42%	210/500 [01:22<01:48, 2.66it/s]
Power Factorization: 42%	211/500 [01:22<01:49, 2.64it/s]
Power Factorization: 42%	212/500 [01:23<01:50, 2.60it/s]
Power Factorization: 43%	213/500 [01:23<01:48, 2.64it/s]
Power Factorization: 43%	214/500 [01:24<01:46, 2.69it/s]
Power Factorization: 43%	215/500 [01:24<01:46, 2.67it/s]

Power Factorization: 43%	216/500 [01:24<01:45, 2.69it/s]
Power Factorization: 43%	217/500 [01:25<01:46, 2.67it/s]
Power Factorization: 44%	218/500 [01:25<01:49, 2.58it/s]
Power Factorization: 44%	219/500 [01:25<01:46, 2.63it/s]
Power Factorization: 44%	220/500 [01:26<01:43, 2.71it/s]
Power Factorization: 44%	221/500 [01:26<01:47, 2.61it/s]
Power Factorization: 44%	222/500 [01:27<01:50, 2.51it/s]
Power Factorization: 45%	223/500 [01:27<01:52, 2.46it/s]
Power Factorization: 45%	224/500 [01:27<01:53, 2.43it/s]
Power Factorization: 45%	225/500 [01:28<01:47, 2.57it/s]
Power Factorization: 45%	226/500 [01:28<01:44, 2.62it/s]
Power Factorization: 45%	227/500 [01:29<01:53, 2.41it/s]
Power Factorization: 46%	228/500 [01:29<01:49, 2.49it/s]
Power Factorization: 46%	229/500 [01:29<01:51, 2.43it/s]
Power Factorization: 46%	230/500 [01:30<01:49, 2.46it/s]
Power Factorization: 46%	231/500 [01:30<01:49, 2.47it/s]
Power Factorization: 46%	232/500 [01:31<01:48, 2.46it/s]
Power Factorization: 47%	233/500 [01:31<01:44, 2.54it/s]
Power Factorization: 47%	234/500 [01:31<01:42, 2.59it/s]
Power Factorization: 47%	235/500 [01:32<01:40, 2.62it/s]
Power Factorization: 47%	236/500 [01:32<01:41, 2.59it/s]
Power Factorization: 47%	237/500 [01:33<01:38, 2.68it/s]
Power Factorization: 48%	238/500 [01:33<01:38, 2.65it/s]
Power Factorization: 48%	239/500 [01:33<01:35, 2.74it/s]

Power Factorization: 48%	240/500 [01:34<01:34, 2.74it/s]
Power Factorization: 48%	241/500 [01:34<01:42, 2.54it/s]
Power Factorization: 48%	242/500 [01:34<01:41, 2.54it/s]
Power Factorization: 49%	243/500 [01:35<01:39, 2.59it/s]
Power Factorization: 49%	244/500 [01:35<01:38, 2.60it/s]
Power Factorization: 49%	245/500 [01:36<01:38, 2.58it/s]
Power Factorization: 49%	246/500 [01:36<01:40, 2.52it/s]
Power Factorization: 49%	247/500 [01:36<01:43, 2.45it/s]
Power Factorization: 50%	248/500 [01:37<01:41, 2.47it/s]
Power Factorization: 50%	249/500 [01:37<01:40, 2.50it/s]
Power Factorization: 50%	250/500 [01:38<01:39, 2.50it/s]
Power Factorization: 50%	251/500 [01:38<01:37, 2.56it/s]
Power Factorization: 50%	252/500 [01:38<01:39, 2.50it/s]
Power Factorization: 51%	253/500 [01:39<01:38, 2.51it/s]
Power Factorization: 51%	254/500 [01:39<01:35, 2.57it/s]
Power Factorization: 51%	255/500 [01:40<01:39, 2.47it/s]
Power Factorization: 51%	256/500 [01:40<01:37, 2.50it/s]
Power Factorization: 51%	257/500 [01:40<01:37, 2.48it/s]
Power Factorization: 52%	258/500 [01:41<01:34, 2.57it/s]
Power Factorization: 52%	259/500 [01:41<01:31, 2.64it/s]
Power Factorization: 52%	260/500 [01:42<01:33, 2.57it/s]
Power Factorization: 52%	261/500 [01:42<01:37, 2.45it/s]
Power Factorization: 52%	262/500 [01:42<01:37, 2.43it/s]
Power Factorization: 53%	263/500 [01:43<01:33, 2.54it/s]

Power Factorization: 53%	264/500 [01:43<01:31, 2.57it/s]
Power Factorization: 53%	265/500 [01:44<01:32, 2.55it/s]
Power Factorization: 53%	266/500 [01:44<01:37, 2.40it/s]
Power Factorization: 53%	267/500 [01:44<01:37, 2.39it/s]
Power Factorization: 54%	268/500 [01:45<01:32, 2.51it/s]
Power Factorization: 54%	269/500 [01:45<01:33, 2.47it/s]
Power Factorization: 54%	270/500 [01:46<01:30, 2.55it/s]
Power Factorization: 54%	271/500 [01:46<01:30, 2.53it/s]
Power Factorization: 54%	272/500 [01:46<01:30, 2.53it/s]
Power Factorization: 55%	273/500 [01:47<01:31, 2.48it/s]
Power Factorization: 55%	274/500 [01:47<01:29, 2.52it/s]
Power Factorization: 55%	275/500 [01:48<01:29, 2.51it/s]
Power Factorization: 55%	276/500 [01:48<01:28, 2.52it/s]
Power Factorization: 55%	277/500 [01:48<01:25, 2.60it/s]
Power Factorization: 56%	278/500 [01:49<01:24, 2.62it/s]
Power Factorization: 56%	279/500 [01:49<01:27, 2.53it/s]
Power Factorization: 56%	280/500 [01:49<01:23, 2.63it/s]
Power Factorization: 56%	281/500 [01:50<01:20, 2.73it/s]
Power Factorization: 56%	282/500 [01:50<01:19, 2.73it/s]
Power Factorization: 57%	283/500 [01:51<01:21, 2.66it/s]
Power Factorization: 57%	284/500 [01:51<01:27, 2.48it/s]
Power Factorization: 57%	285/500 [01:51<01:26, 2.48it/s]
Power Factorization: 57%	286/500 [01:52<01:26, 2.46it/s]
Power Factorization: 57%	287/500 [01:52<01:25, 2.50it/s]

Power Factorization: 58%	288/500 [01:53<01:27, 2.42it/s]
Power Factorization: 58%	289/500 [01:53<01:25, 2.47it/s]
Power Factorization: 58%	290/500 [01:53<01:23, 2.52it/s]
Power Factorization: 58%	291/500 [01:54<01:20, 2.58it/s]
Power Factorization: 58%	292/500 [01:54<01:19, 2.63it/s]
Power Factorization: 59%	293/500 [01:55<01:21, 2.52it/s]
Power Factorization: 59%	294/500 [01:55<01:20, 2.55it/s]
Power Factorization: 59%	295/500 [01:55<01:19, 2.56it/s]
Power Factorization: 59%	296/500 [01:56<01:16, 2.67it/s]
Power Factorization: 59%	297/500 [01:56<01:19, 2.54it/s]
Power Factorization: 60%	298/500 [01:57<01:19, 2.55it/s]
Power Factorization: 60%	299/500 [01:57<01:19, 2.54it/s]
Power Factorization: 60%	300/500 [01:57<01:18, 2.56it/s]
Power Factorization: 60%	301/500 [01:58<01:19, 2.51it/s]
Power Factorization: 60%	302/500 [01:58<01:17, 2.54it/s]
Power Factorization: 61%	303/500 [01:59<01:17, 2.56it/s]
Power Factorization: 61%	304/500 [01:59<01:18, 2.51it/s]
Power Factorization: 61%	305/500 [01:59<01:19, 2.44it/s]
Power Factorization: 61%	306/500 [02:00<01:17, 2.50it/s]
Power Factorization: 61%	307/500 [02:00<01:15, 2.56it/s]
Power Factorization: 62%	308/500 [02:01<01:16, 2.50it/s]
Power Factorization: 62%	309/500 [02:01<01:16, 2.50it/s]
Power Factorization: 62%	310/500 [02:01<01:15, 2.51it/s]
Power Factorization: 62%	311/500 [02:02<01:13, 2.58it/s]

Power Factorization: 62%	312/500 [02:02<01:11, 2.63it/s]
Power Factorization: 63%	313/500 [02:02<01:08, 2.74it/s]
Power Factorization: 63%	314/500 [02:03<01:08, 2.72it/s]
Power Factorization: 63%	315/500 [02:03<01:08, 2.71it/s]
Power Factorization: 63%	316/500 [02:04<01:10, 2.60it/s]
Power Factorization: 63%	317/500 [02:04<01:08, 2.67it/s]
Power Factorization: 64%	318/500 [02:04<01:07, 2.70it/s]
Power Factorization: 64%	319/500 [02:05<01:07, 2.70it/s]
Power Factorization: 64%	320/500 [02:05<01:08, 2.64it/s]
Power Factorization: 64%	321/500 [02:05<01:06, 2.68it/s]
Power Factorization: 64%	322/500 [02:06<01:04, 2.74it/s]
Power Factorization: 65%	323/500 [02:06<01:08, 2.59it/s]
Power Factorization: 65%	324/500 [02:07<01:05, 2.67it/s]
Power Factorization: 65%	325/500 [02:07<01:05, 2.66it/s]
Power Factorization: 65%	326/500 [02:07<01:05, 2.66it/s]
Power Factorization: 65%	327/500 [02:08<01:04, 2.66it/s]
Power Factorization: 66%	328/500 [02:08<01:04, 2.69it/s]
Power Factorization: 66%	329/500 [02:08<01:03, 2.69it/s]
Power Factorization: 66%	330/500 [02:09<01:03, 2.69it/s]
Power Factorization: 66%	331/500 [02:09<01:03, 2.68it/s]
Power Factorization: 66%	332/500 [02:10<01:02, 2.68it/s]
Power Factorization: 67%	333/500 [02:10<01:02, 2.68it/s]
Power Factorization: 67%	334/500 [02:10<01:02, 2.67it/s]
Power Factorization: 67%	335/500 [02:11<01:03, 2.62it/s]

Power Factorization: 67%	336/500 [02:11<01:00, 2.71it/s]
Power Factorization: 67%	337/500 [02:11<01:00, 2.68it/s]
Power Factorization: 68%	338/500 [02:12<01:01, 2.64it/s]
Power Factorization: 68%	339/500 [02:12<00:59, 2.72it/s]
Power Factorization: 68%	340/500 [02:13<01:00, 2.63it/s]
Power Factorization: 68%	341/500 [02:13<00:59, 2.69it/s]
Power Factorization: 68%	342/500 [02:13<00:58, 2.70it/s]
Power Factorization: 69%	343/500 [02:14<00:58, 2.70it/s]
Power Factorization: 69%	344/500 [02:14<00:56, 2.75it/s]
Power Factorization: 69%	345/500 [02:14<00:58, 2.67it/s]
Power Factorization: 69%	346/500 [02:15<00:57, 2.67it/s]
Power Factorization: 69%	347/500 [02:15<00:56, 2.72it/s]
Power Factorization: 70%	348/500 [02:15<00:57, 2.64it/s]
Power Factorization: 70%	349/500 [02:16<00:59, 2.53it/s]
Power Factorization: 70%	350/500 [02:16<00:57, 2.61it/s]
Power Factorization: 70%	351/500 [02:17<00:57, 2.59it/s]
Power Factorization: 70%	352/500 [02:17<00:57, 2.59it/s]
Power Factorization: 71%	353/500 [02:17<00:56, 2.61it/s]
Power Factorization: 71%	354/500 [02:18<00:56, 2.58it/s]
Power Factorization: 71%	355/500 [02:18<00:54, 2.67it/s]
Power Factorization: 71%	356/500 [02:19<00:54, 2.64it/s]
Power Factorization: 71%	357/500 [02:19<00:54, 2.63it/s]
Power Factorization: 72%	358/500 [02:19<00:53, 2.68it/s]
Power Factorization: 72%	359/500 [02:20<00:53, 2.64it/s]

Power Factorization: 72%	360/500 [02:20<00:52, 2.66it/s]
Power Factorization: 72%	361/500 [02:20<00:50, 2.73it/s]
Power Factorization: 72%	362/500 [02:21<00:50, 2.73it/s]
Power Factorization: 73%	363/500 [02:21<00:50, 2.69it/s]
Power Factorization: 73%	364/500 [02:22<00:51, 2.64it/s]
Power Factorization: 73%	365/500 [02:22<00:49, 2.73it/s]
Power Factorization: 73%	366/500 [02:22<00:49, 2.73it/s]
Power Factorization: 73%	367/500 [02:23<00:49, 2.70it/s]
Power Factorization: 74%	368/500 [02:23<00:48, 2.73it/s]
Power Factorization: 74%	369/500 [02:23<00:49, 2.67it/s]
Power Factorization: 74%	370/500 [02:24<00:48, 2.70it/s]
Power Factorization: 74%	371/500 [02:24<00:47, 2.71it/s]
Power Factorization: 74%	372/500 [02:24<00:47, 2.69it/s]
Power Factorization: 75%	373/500 [02:25<00:47, 2.68it/s]
Power Factorization: 75%	374/500 [02:25<00:48, 2.60it/s]
Power Factorization: 75%	375/500 [02:26<00:48, 2.58it/s]
Power Factorization: 75%	376/500 [02:26<00:48, 2.58it/s]
Power Factorization: 75%	377/500 [02:26<00:45, 2.68it/s]
Power Factorization: 76%	378/500 [02:27<00:45, 2.70it/s]
Power Factorization: 76%	379/500 [02:27<00:44, 2.70it/s]
Power Factorization: 76%	380/500 [02:27<00:43, 2.73it/s]
Power Factorization: 76%	381/500 [02:28<00:43, 2.72it/s]
Power Factorization: 76%	382/500 [02:28<00:45, 2.61it/s]
Power Factorization: 77%	383/500 [02:29<00:45, 2.59it/s]

Power Factorization: 77%	384/500 [02:29<00:44,	2.61it/s]
Power Factorization: 77%	385/500 [02:29<00:43,	2.65it/s]
Power Factorization: 77%	386/500 [02:30<00:44,	2.58it/s]
Power Factorization: 77%	387/500 [02:30<00:43,	2.58it/s]
Power Factorization: 78%	388/500 [02:31<00:43,	2.60it/s]
Power Factorization: 78%	389/500 [02:31<00:42,	2.60it/s]
Power Factorization: 78%	390/500 [02:31<00:41,	2.65it/s]
Power Factorization: 78%	391/500 [02:32<00:40,	2.70it/s]
Power Factorization: 78%	392/500 [02:32<00:40,	2.68it/s]
Power Factorization: 79%	393/500 [02:32<00:39,	2.71it/s]
Power Factorization: 79%	394/500 [02:33<00:39,	2.68it/s]
Power Factorization: 79%	395/500 [02:33<00:40,	2.59it/s]
Power Factorization: 79%	396/500 [02:34<00:42,	2.43it/s]
Power Factorization: 79%	397/500 [02:34<00:42,	2.41it/s]
Power Factorization: 80%	398/500 [02:35<00:40,	2.49it/s]
Power Factorization: 80%	399/500 [02:35<00:41,	2.42it/s]
Power Factorization: 80%	400/500 [02:35<00:39,	2.53it/s]
Power Factorization: 80%	401/500 [02:36<00:36,	2.74it/s]
Power Factorization: 80%	402/500 [02:36<00:38,	2.57it/s]
Power Factorization: 81%	403/500 [02:36<00:37,	2.60it/s]
Power Factorization: 81%	404/500 [02:37<00:36,	2.63it/s]
Power Factorization: 81%	405/500 [02:37<00:36,	2.60it/s]
Power Factorization: 81%	406/500 [02:38<00:36,	2.55it/s]
Power Factorization: 81%	407/500 [02:38<00:38,	2.43it/s]

Power Factorization: 82%	408/500 [02:38<00:36,	2.50it/s]
Power Factorization: 82%	409/500 [02:39<00:34,	2.63it/s]
Power Factorization: 82%	410/500 [02:39<00:35,	2.54it/s]
Power Factorization: 82%	411/500 [02:40<00:35,	2.51it/s]
Power Factorization: 82%	412/500 [02:40<00:34,	2.56it/s]
Power Factorization: 83%	413/500 [02:40<00:33,	2.63it/s]
Power Factorization: 83%	414/500 [02:41<00:32,	2.64it/s]
Power Factorization: 83%	415/500 [02:41<00:32,	2.61it/s]
Power Factorization: 83%	416/500 [02:41<00:31,	2.69it/s]
Power Factorization: 83%	417/500 [02:42<00:30,	2.69it/s]
Power Factorization: 84%	418/500 [02:42<00:30,	2.66it/s]
Power Factorization: 84%	419/500 [02:43<00:31,	2.61it/s]
Power Factorization: 84%	420/500 [02:43<00:29,	2.73it/s]
Power Factorization: 84%	421/500 [02:43<00:29,	2.72it/s]
Power Factorization: 84%	422/500 [02:44<00:28,	2.77it/s]
Power Factorization: 85%	423/500 [02:44<00:28,	2.73it/s]
Power Factorization: 85%	424/500 [02:44<00:27,	2.79it/s]
Power Factorization: 85%	425/500 [02:45<00:27,	2.75it/s]
Power Factorization: 85%	426/500 [02:45<00:27,	2.71it/s]
Power Factorization: 85%	427/500 [02:45<00:25,	2.82it/s]
Power Factorization: 86%	428/500 [02:46<00:26,	2.67it/s]
Power Factorization: 86%	429/500 [02:46<00:26,	2.69it/s]
Power Factorization: 86%	430/500 [02:47<00:25,	2.76it/s]
Power Factorization: 86%	431/500 [02:47<00:25,	2.73it/s]

Power Factorization: 86%	432/500 [02:47<00:25,	2.69it/s]
Power Factorization: 87%	433/500 [02:48<00:25,	2.60it/s]
Power Factorization: 87%	434/500 [02:48<00:24,	2.66it/s]
Power Factorization: 87%	435/500 [02:48<00:23,	2.75it/s]
Power Factorization: 87%	436/500 [02:49<00:23,	2.70it/s]
Power Factorization: 87%	437/500 [02:49<00:23,	2.65it/s]
Power Factorization: 88%	438/500 [02:50<00:23,	2.64it/s]
Power Factorization: 88%	439/500 [02:50<00:22,	2.71it/s]
Power Factorization: 88%	440/500 [02:50<00:21,	2.74it/s]
Power Factorization: 88%	441/500 [02:51<00:21,	2.76it/s]
Power Factorization: 88%	442/500 [02:51<00:20,	2.80it/s]
Power Factorization: 89%	443/500 [02:51<00:20,	2.72it/s]
Power Factorization: 89%	444/500 [02:52<00:20,	2.72it/s]
Power Factorization: 89%	445/500 [02:52<00:20,	2.73it/s]
Power Factorization: 89%	446/500 [02:52<00:19,	2.78it/s]
Power Factorization: 89%	447/500 [02:53<00:19,	2.69it/s]
Power Factorization: 90%	448/500 [02:53<00:19,	2.67it/s]
Power Factorization: 90%	449/500 [02:54<00:19,	2.65it/s]
Power Factorization: 90%	450/500 [02:54<00:18,	2.68it/s]
Power Factorization: 90%	451/500 [02:54<00:18,	2.65it/s]
Power Factorization: 90%	452/500 [02:55<00:17,	2.73it/s]
Power Factorization: 91%	453/500 [02:55<00:18,	2.53it/s]
Power Factorization: 91%	454/500 [02:56<00:17,	2.65it/s]
Power Factorization: 91%	455/500 [02:56<00:16,	2.66it/s]

Power Factorization: 91%	456/500 [02:56<00:16, 2.70it/s]
Power Factorization: 91%	457/500 [02:57<00:16, 2.63it/s]
Power Factorization: 92%	458/500 [02:57<00:15, 2.68it/s]
Power Factorization: 92%	459/500 [02:57<00:14, 2.75it/s]
Power Factorization: 92%	460/500 [02:58<00:14, 2.69it/s]
Power Factorization: 92%	461/500 [02:58<00:14, 2.70it/s]
Power Factorization: 92%	462/500 [02:58<00:14, 2.71it/s]
Power Factorization: 93%	463/500 [02:59<00:13, 2.70it/s]
Power Factorization: 93%	464/500 [02:59<00:14, 2.54it/s]
Power Factorization: 93%	465/500 [03:00<00:13, 2.57it/s]
Power Factorization: 93%	466/500 [03:00<00:12, 2.64it/s]
Power Factorization: 93%	467/500 [03:00<00:12, 2.68it/s]
Power Factorization: 94%	468/500 [03:01<00:11, 2.68it/s]
Power Factorization: 94%	469/500 [03:01<00:11, 2.62it/s]
Power Factorization: 94%	470/500 [03:02<00:11, 2.61it/s]
Power Factorization: 94%	471/500 [03:02<00:10, 2.73it/s]
Power Factorization: 94%	472/500 [03:02<00:10, 2.71it/s]
Power Factorization: 95%	473/500 [03:03<00:10, 2.67it/s]
Power Factorization: 95%	474/500 [03:03<00:09, 2.72it/s]
Power Factorization: 95%	475/500 [03:03<00:09, 2.64it/s]
Power Factorization: 95%	476/500 [03:04<00:08, 2.73it/s]
Power Factorization: 95%	477/500 [03:04<00:08, 2.68it/s]
Power Factorization: 96%	478/500 [03:04<00:08, 2.71it/s]
Power Factorization: 96%	479/500 [03:05<00:07, 2.72it/s]

Power Factorization: 96%| | 480/500 [03:05<00:07, 2.66it/s]

Power Factorization: 96%| | 481/500 [03:06<00:07, 2.68it/s]

Power Factorization: 96%| | 482/500 [03:06<00:06, 2.61it/s]

Power Factorization: 97%| | 483/500 [03:06<00:06, 2.56it/s]

Power Factorization: 97%| | 484/500 [03:07<00:06, 2.58it/s]

Power Factorization: 97%| | 485/500 [03:07<00:05, 2.57it/s]

Power Factorization: 97%| | 486/500 [03:08<00:05, 2.64it/s]

Power Factorization: 97%| | 487/500 [03:08<00:04, 2.73it/s]

Power Factorization: 98%| | 488/500 [03:08<00:04, 2.75it/s]

Power Factorization: 98%| | 489/500 [03:09<00:03, 2.82it/s]

Power Factorization: 98%| | 490/500 [03:09<00:03, 2.82it/s]

Power Factorization: 98%| | 491/500 [03:09<00:03, 2.74it/s]

Power Factorization: 98%| | 492/500 [03:10<00:02, 2.78it/s]

Power Factorization: 99%| | 493/500 [03:10<00:02, 2.74it/s]

Power Factorization: 99%| | 494/500 [03:10<00:02, 2.68it/s]

Power Factorization: 99%| | 495/500 [03:11<00:01, 2.60it/s]

Power Factorization: 99%| | 496/500 [03:11<00:01, 2.56it/s]

Power Factorization: 99%| | 497/500 [03:12<00:01, 2.50it/s]

Power Factorization: 100%| | 498/500 [03:12<00:00, 2.57it/s]

Power Factorization: 100%| | 499/500 [03:12<00:00, 2.62it/s]

Power Factorization: 100%| | 500/500 [03:13<00:00, 2.59it/s]

Cross Validation: 100%| | 5/5 [15:14<00:00, 182.81s/it]

Grid Search: 81%| | 13/16 [2:05:16<33:12, 664.02s/it]

Average RMS for k=20, lambda=0.1: 2.7625, Execution time: 182.7563s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<03:08, 2.65it/s]
Power Factorization:	0%	2/500 [00:00<03:00, 2.75it/s]
Power Factorization:	1%	3/500 [00:01<02:53, 2.86it/s]
Power Factorization:	1%	4/500 [00:01<02:53, 2.85it/s]
Power Factorization:	1%	5/500 [00:01<03:00, 2.74it/s]
Power Factorization:	1%	6/500 [00:02<02:58, 2.77it/s]
Power Factorization:	1%	7/500 [00:02<03:04, 2.68it/s]
Power Factorization:	2%	8/500 [00:02<03:08, 2.61it/s]
Power Factorization:	2%	9/500 [00:03<03:03, 2.68it/s]
Power Factorization:	2%	10/500 [00:03<03:05, 2.64it/s]
Power Factorization:	2%	11/500 [00:04<03:07, 2.61it/s]
Power Factorization:	2%	12/500 [00:04<03:03, 2.66it/s]
Power Factorization:	3%	13/500 [00:04<03:00, 2.70it/s]
Power Factorization:	3%	14/500 [00:05<03:02, 2.66it/s]
Power Factorization:	3%	15/500 [00:05<02:59, 2.70it/s]
Power Factorization:	3%	16/500 [00:05<02:56, 2.74it/s]
Power Factorization:	3%	17/500 [00:06<02:57, 2.72it/s]
Power Factorization:	4%	18/500 [00:06<02:57, 2.71it/s]
Power Factorization:	4%	19/500 [00:07<02:59, 2.69it/s]
Power Factorization:	4%	20/500 [00:07<02:59, 2.67it/s]
Power Factorization:	4%	21/500 [00:07<02:55, 2.73it/s]
Power Factorization:	4%	22/500 [00:08<03:12, 2.49it/s]
Power Factorization:	5%	23/500 [00:08<03:04, 2.58it/s]

Power Factorization:	5%	24/500	[00:08<02:58, 2.66it/s]
Power Factorization:	5%	25/500	[00:09<03:06, 2.55it/s]
Power Factorization:	5%	26/500	[00:09<02:57, 2.66it/s]
Power Factorization:	5%	27/500	[00:10<02:57, 2.66it/s]
Power Factorization:	6%	28/500	[00:10<02:55, 2.69it/s]
Power Factorization:	6%	29/500	[00:10<02:59, 2.63it/s]
Power Factorization:	6%	30/500	[00:11<03:03, 2.56it/s]
Power Factorization:	6%	31/500	[00:11<02:57, 2.64it/s]
Power Factorization:	6%	32/500	[00:12<02:57, 2.64it/s]
Power Factorization:	7%	33/500	[00:12<03:06, 2.51it/s]
Power Factorization:	7%	34/500	[00:12<03:00, 2.58it/s]
Power Factorization:	7%	35/500	[00:13<02:55, 2.65it/s]
Power Factorization:	7%	36/500	[00:13<02:52, 2.69it/s]
Power Factorization:	7%	37/500	[00:13<02:56, 2.63it/s]
Power Factorization:	8%	38/500	[00:14<02:55, 2.63it/s]
Power Factorization:	8%	39/500	[00:14<02:56, 2.61it/s]
Power Factorization:	8%	40/500	[00:15<02:53, 2.65it/s]
Power Factorization:	8%	41/500	[00:15<02:56, 2.59it/s]
Power Factorization:	8%	42/500	[00:15<02:52, 2.65it/s]
Power Factorization:	9%	43/500	[00:16<02:55, 2.61it/s]
Power Factorization:	9%	44/500	[00:16<02:54, 2.61it/s]
Power Factorization:	9%	45/500	[00:16<02:56, 2.58it/s]
Power Factorization:	9%	46/500	[00:17<02:51, 2.65it/s]
Power Factorization:	9%	47/500	[00:17<02:46, 2.72it/s]

Power Factorization: 10%	48/500 [00:18<02:55, 2.58it/s]
Power Factorization: 10%	49/500 [00:18<02:58, 2.52it/s]
Power Factorization: 10%	50/500 [00:18<02:57, 2.53it/s]
Power Factorization: 10%	51/500 [00:19<02:59, 2.50it/s]
Power Factorization: 10%	52/500 [00:19<02:55, 2.55it/s]
Power Factorization: 11%	53/500 [00:20<02:48, 2.65it/s]
Power Factorization: 11%	54/500 [00:20<02:47, 2.67it/s]
Power Factorization: 11%	55/500 [00:20<02:53, 2.57it/s]
Power Factorization: 11%	56/500 [00:21<02:49, 2.63it/s]
Power Factorization: 11%	57/500 [00:21<02:46, 2.67it/s]
Power Factorization: 12%	58/500 [00:21<02:39, 2.77it/s]
Power Factorization: 12%	59/500 [00:22<02:38, 2.78it/s]
Power Factorization: 12%	60/500 [00:22<02:38, 2.78it/s]
Power Factorization: 12%	61/500 [00:23<02:52, 2.55it/s]
Power Factorization: 12%	62/500 [00:23<02:44, 2.66it/s]
Power Factorization: 13%	63/500 [00:23<02:43, 2.68it/s]
Power Factorization: 13%	64/500 [00:24<02:54, 2.50it/s]
Power Factorization: 13%	65/500 [00:24<02:59, 2.42it/s]
Power Factorization: 13%	66/500 [00:25<03:05, 2.34it/s]
Power Factorization: 13%	67/500 [00:25<03:01, 2.39it/s]
Power Factorization: 14%	68/500 [00:25<02:53, 2.49it/s]
Power Factorization: 14%	69/500 [00:26<02:46, 2.58it/s]
Power Factorization: 14%	70/500 [00:26<02:41, 2.66it/s]
Power Factorization: 14%	71/500 [00:27<02:40, 2.68it/s]

Power Factorization: 14%	72/500 [00:27<02:37, 2.72it/s]
Power Factorization: 15%	73/500 [00:27<02:39, 2.68it/s]
Power Factorization: 15%	74/500 [00:28<02:35, 2.74it/s]
Power Factorization: 15%	75/500 [00:28<02:38, 2.68it/s]
Power Factorization: 15%	76/500 [00:28<02:35, 2.72it/s]
Power Factorization: 15%	77/500 [00:29<02:36, 2.70it/s]
Power Factorization: 16%	78/500 [00:29<02:36, 2.70it/s]
Power Factorization: 16%	79/500 [00:29<02:32, 2.76it/s]
Power Factorization: 16%	80/500 [00:30<02:35, 2.70it/s]
Power Factorization: 16%	81/500 [00:30<02:36, 2.68it/s]
Power Factorization: 16%	82/500 [00:31<02:36, 2.66it/s]
Power Factorization: 17%	83/500 [00:31<02:38, 2.63it/s]
Power Factorization: 17%	84/500 [00:31<02:39, 2.61it/s]
Power Factorization: 17%	85/500 [00:32<02:38, 2.63it/s]
Power Factorization: 17%	86/500 [00:32<02:39, 2.59it/s]
Power Factorization: 17%	87/500 [00:32<02:36, 2.64it/s]
Power Factorization: 18%	88/500 [00:33<02:37, 2.61it/s]
Power Factorization: 18%	89/500 [00:33<02:37, 2.62it/s]
Power Factorization: 18%	90/500 [00:34<02:41, 2.55it/s]
Power Factorization: 18%	91/500 [00:34<02:34, 2.64it/s]
Power Factorization: 18%	92/500 [00:34<02:32, 2.67it/s]
Power Factorization: 19%	93/500 [00:35<02:31, 2.68it/s]
Power Factorization: 19%	94/500 [00:35<02:32, 2.67it/s]
Power Factorization: 19%	95/500 [00:35<02:28, 2.72it/s]

Power Factorization: 19%	96/500 [00:36<02:34, 2.62it/s]
Power Factorization: 19%	97/500 [00:36<02:32, 2.64it/s]
Power Factorization: 20%	98/500 [00:37<02:28, 2.71it/s]
Power Factorization: 20%	99/500 [00:37<02:25, 2.76it/s]
Power Factorization: 20%	100/500 [00:37<02:24, 2.77it/s]
Power Factorization: 20%	101/500 [00:38<02:23, 2.78it/s]
Power Factorization: 20%	102/500 [00:38<02:24, 2.76it/s]
Power Factorization: 21%	103/500 [00:38<02:23, 2.76it/s]
Power Factorization: 21%	104/500 [00:39<02:25, 2.72it/s]
Power Factorization: 21%	105/500 [00:39<02:20, 2.81it/s]
Power Factorization: 21%	106/500 [00:40<02:31, 2.61it/s]
Power Factorization: 21%	107/500 [00:40<02:29, 2.63it/s]
Power Factorization: 22%	108/500 [00:40<02:30, 2.60it/s]
Power Factorization: 22%	109/500 [00:41<02:27, 2.65it/s]
Power Factorization: 22%	110/500 [00:41<02:29, 2.61it/s]
Power Factorization: 22%	111/500 [00:41<02:27, 2.65it/s]
Power Factorization: 22%	112/500 [00:42<02:26, 2.64it/s]
Power Factorization: 23%	113/500 [00:42<02:32, 2.54it/s]
Power Factorization: 23%	114/500 [00:43<02:28, 2.61it/s]
Power Factorization: 23%	115/500 [00:43<02:20, 2.74it/s]
Power Factorization: 23%	116/500 [00:43<02:21, 2.71it/s]
Power Factorization: 23%	117/500 [00:44<02:22, 2.68it/s]
Power Factorization: 24%	118/500 [00:44<02:24, 2.64it/s]
Power Factorization: 24%	119/500 [00:45<02:28, 2.57it/s]

Power Factorization: 24%	120/500 [00:45<02:24, 2.62it/s]
Power Factorization: 24%	121/500 [00:45<02:39, 2.38it/s]
Power Factorization: 24%	122/500 [00:46<02:33, 2.46it/s]
Power Factorization: 25%	123/500 [00:46<02:30, 2.51it/s]
Power Factorization: 25%	124/500 [00:47<02:27, 2.55it/s]
Power Factorization: 25%	125/500 [00:47<02:27, 2.55it/s]
Power Factorization: 25%	126/500 [00:47<02:30, 2.49it/s]
Power Factorization: 25%	127/500 [00:48<02:25, 2.56it/s]
Power Factorization: 26%	128/500 [00:48<02:20, 2.64it/s]
Power Factorization: 26%	129/500 [00:48<02:12, 2.79it/s]
Power Factorization: 26%	130/500 [00:49<02:17, 2.69it/s]
Power Factorization: 26%	131/500 [00:49<02:25, 2.53it/s]
Power Factorization: 26%	132/500 [00:50<02:36, 2.35it/s]
Power Factorization: 27%	133/500 [00:50<02:29, 2.45it/s]
Power Factorization: 27%	134/500 [00:50<02:26, 2.50it/s]
Power Factorization: 27%	135/500 [00:51<02:32, 2.40it/s]
Power Factorization: 27%	136/500 [00:51<02:27, 2.47it/s]
Power Factorization: 27%	137/500 [00:52<02:23, 2.53it/s]
Power Factorization: 28%	138/500 [00:52<02:26, 2.48it/s]
Power Factorization: 28%	139/500 [00:53<02:28, 2.42it/s]
Power Factorization: 28%	140/500 [00:53<02:26, 2.46it/s]
Power Factorization: 28%	141/500 [00:53<02:23, 2.50it/s]
Power Factorization: 28%	142/500 [00:54<02:22, 2.51it/s]
Power Factorization: 29%	143/500 [00:54<02:19, 2.55it/s]

Power Factorization: 29%	144/500 [00:54<02:18, 2.58it/s]
Power Factorization: 29%	145/500 [00:55<02:13, 2.66it/s]
Power Factorization: 29%	146/500 [00:55<02:12, 2.67it/s]
Power Factorization: 29%	147/500 [00:56<02:10, 2.71it/s]
Power Factorization: 30%	148/500 [00:56<02:18, 2.55it/s]
Power Factorization: 30%	149/500 [00:56<02:16, 2.56it/s]
Power Factorization: 30%	150/500 [00:57<02:12, 2.64it/s]
Power Factorization: 30%	151/500 [00:57<02:11, 2.66it/s]
Power Factorization: 30%	152/500 [00:57<02:12, 2.62it/s]
Power Factorization: 31%	153/500 [00:58<02:08, 2.70it/s]
Power Factorization: 31%	154/500 [00:58<02:10, 2.65it/s]
Power Factorization: 31%	155/500 [00:59<02:22, 2.43it/s]
Power Factorization: 31%	156/500 [00:59<02:18, 2.48it/s]
Power Factorization: 31%	157/500 [00:59<02:16, 2.52it/s]
Power Factorization: 32%	158/500 [01:00<02:17, 2.49it/s]
Power Factorization: 32%	159/500 [01:00<02:19, 2.44it/s]
Power Factorization: 32%	160/500 [01:01<02:14, 2.52it/s]
Power Factorization: 32%	161/500 [01:01<02:10, 2.60it/s]
Power Factorization: 32%	162/500 [01:01<02:08, 2.62it/s]
Power Factorization: 33%	163/500 [01:02<02:03, 2.72it/s]
Power Factorization: 33%	164/500 [01:02<02:03, 2.73it/s]
Power Factorization: 33%	165/500 [01:02<01:58, 2.83it/s]
Power Factorization: 33%	166/500 [01:03<01:54, 2.92it/s]
Power Factorization: 33%	167/500 [01:03<01:54, 2.90it/s]

Power Factorization: 34%	168/500 [01:03<01:52, 2.95it/s]
Power Factorization: 34%	169/500 [01:04<01:53, 2.92it/s]
Power Factorization: 34%	170/500 [01:04<01:54, 2.89it/s]
Power Factorization: 34%	171/500 [01:04<01:52, 2.92it/s]
Power Factorization: 34%	172/500 [01:05<01:50, 2.97it/s]
Power Factorization: 35%	173/500 [01:05<01:49, 2.98it/s]
Power Factorization: 35%	174/500 [01:05<01:47, 3.04it/s]
Power Factorization: 35%	175/500 [01:06<01:44, 3.11it/s]
Power Factorization: 35%	176/500 [01:06<01:47, 3.03it/s]
Power Factorization: 35%	177/500 [01:06<01:46, 3.03it/s]
Power Factorization: 36%	178/500 [01:07<01:50, 2.92it/s]
Power Factorization: 36%	179/500 [01:07<01:46, 3.01it/s]
Power Factorization: 36%	180/500 [01:07<01:46, 2.99it/s]
Power Factorization: 36%	181/500 [01:08<01:44, 3.05it/s]
Power Factorization: 36%	182/500 [01:08<01:44, 3.05it/s]
Power Factorization: 37%	183/500 [01:08<01:47, 2.96it/s]
Power Factorization: 37%	184/500 [01:09<01:48, 2.90it/s]
Power Factorization: 37%	185/500 [01:09<01:48, 2.89it/s]
Power Factorization: 37%	186/500 [01:09<01:47, 2.92it/s]
Power Factorization: 37%	187/500 [01:10<01:45, 2.96it/s]
Power Factorization: 38%	188/500 [01:10<01:42, 3.05it/s]
Power Factorization: 38%	189/500 [01:10<01:39, 3.11it/s]
Power Factorization: 38%	190/500 [01:11<01:39, 3.13it/s]
Power Factorization: 38%	191/500 [01:11<01:38, 3.14it/s]

Power Factorization: 38%	192/500 [01:11<01:37, 3.17it/s]
Power Factorization: 39%	193/500 [01:12<01:41, 3.03it/s]
Power Factorization: 39%	194/500 [01:12<01:43, 2.95it/s]
Power Factorization: 39%	195/500 [01:12<01:44, 2.92it/s]
Power Factorization: 39%	196/500 [01:13<01:40, 3.01it/s]
Power Factorization: 39%	197/500 [01:13<01:50, 2.75it/s]
Power Factorization: 40%	198/500 [01:14<01:55, 2.60it/s]
Power Factorization: 40%	199/500 [01:14<01:49, 2.74it/s]
Power Factorization: 40%	200/500 [01:14<01:51, 2.68it/s]
Power Factorization: 40%	201/500 [01:15<01:48, 2.75it/s]
Power Factorization: 40%	202/500 [01:15<01:45, 2.84it/s]
Power Factorization: 41%	203/500 [01:15<01:42, 2.90it/s]
Power Factorization: 41%	204/500 [01:16<01:40, 2.95it/s]
Power Factorization: 41%	205/500 [01:16<01:37, 3.03it/s]
Power Factorization: 41%	206/500 [01:16<01:36, 3.04it/s]
Power Factorization: 41%	207/500 [01:17<01:34, 3.11it/s]
Power Factorization: 42%	208/500 [01:17<01:34, 3.10it/s]
Power Factorization: 42%	209/500 [01:17<01:32, 3.14it/s]
Power Factorization: 42%	210/500 [01:17<01:28, 3.28it/s]
Power Factorization: 42%	211/500 [01:18<01:27, 3.30it/s]
Power Factorization: 42%	212/500 [01:18<01:28, 3.26it/s]
Power Factorization: 43%	213/500 [01:18<01:31, 3.14it/s]
Power Factorization: 43%	214/500 [01:19<01:32, 3.09it/s]
Power Factorization: 43%	215/500 [01:19<01:34, 3.01it/s]

Power Factorization: 43%	216/500 [01:19<01:33, 3.04it/s]
Power Factorization: 43%	217/500 [01:20<01:36, 2.92it/s]
Power Factorization: 44%	218/500 [01:20<01:37, 2.89it/s]
Power Factorization: 44%	219/500 [01:21<01:35, 2.94it/s]
Power Factorization: 44%	220/500 [01:21<01:33, 3.00it/s]
Power Factorization: 44%	221/500 [01:21<01:28, 3.16it/s]
Power Factorization: 44%	222/500 [01:21<01:29, 3.12it/s]
Power Factorization: 45%	223/500 [01:22<01:29, 3.11it/s]
Power Factorization: 45%	224/500 [01:22<01:28, 3.13it/s]
Power Factorization: 45%	225/500 [01:22<01:27, 3.13it/s]
Power Factorization: 45%	226/500 [01:23<01:29, 3.07it/s]
Power Factorization: 45%	227/500 [01:23<01:30, 3.02it/s]
Power Factorization: 46%	228/500 [01:23<01:27, 3.10it/s]
Power Factorization: 46%	229/500 [01:24<01:28, 3.06it/s]
Power Factorization: 46%	230/500 [01:24<01:25, 3.15it/s]
Power Factorization: 46%	231/500 [01:24<01:24, 3.18it/s]
Power Factorization: 46%	232/500 [01:25<01:24, 3.16it/s]
Power Factorization: 47%	233/500 [01:25<01:23, 3.19it/s]
Power Factorization: 47%	234/500 [01:25<01:26, 3.06it/s]
Power Factorization: 47%	235/500 [01:26<01:26, 3.05it/s]
Power Factorization: 47%	236/500 [01:26<01:24, 3.11it/s]
Power Factorization: 47%	237/500 [01:26<01:24, 3.13it/s]
Power Factorization: 48%	238/500 [01:27<01:24, 3.09it/s]
Power Factorization: 48%	239/500 [01:27<01:23, 3.11it/s]

Power Factorization: 48%	240/500 [01:27<01:24, 3.08it/s]
Power Factorization: 48%	241/500 [01:28<01:27, 2.97it/s]
Power Factorization: 48%	242/500 [01:28<01:26, 3.00it/s]
Power Factorization: 49%	243/500 [01:28<01:24, 3.03it/s]
Power Factorization: 49%	244/500 [01:29<01:24, 3.01it/s]
Power Factorization: 49%	245/500 [01:29<01:23, 3.04it/s]
Power Factorization: 49%	246/500 [01:29<01:26, 2.92it/s]
Power Factorization: 49%	247/500 [01:30<01:26, 2.91it/s]
Power Factorization: 50%	248/500 [01:30<01:26, 2.92it/s]
Power Factorization: 50%	249/500 [01:30<01:24, 2.99it/s]
Power Factorization: 50%	250/500 [01:31<01:24, 2.95it/s]
Power Factorization: 50%	251/500 [01:31<01:23, 2.99it/s]
Power Factorization: 50%	252/500 [01:31<01:22, 3.02it/s]
Power Factorization: 51%	253/500 [01:32<01:20, 3.08it/s]
Power Factorization: 51%	254/500 [01:32<01:23, 2.95it/s]
Power Factorization: 51%	255/500 [01:32<01:23, 2.93it/s]
Power Factorization: 51%	256/500 [01:33<01:27, 2.79it/s]
Power Factorization: 51%	257/500 [01:33<01:24, 2.87it/s]
Power Factorization: 52%	258/500 [01:33<01:21, 2.96it/s]
Power Factorization: 52%	259/500 [01:34<01:20, 3.00it/s]
Power Factorization: 52%	260/500 [01:34<01:18, 3.06it/s]
Power Factorization: 52%	261/500 [01:34<01:21, 2.93it/s]
Power Factorization: 52%	262/500 [01:35<01:21, 2.94it/s]
Power Factorization: 53%	263/500 [01:35<01:21, 2.91it/s]

Power Factorization: 53%	264/500 [01:35<01:24, 2.80it/s]
Power Factorization: 53%	265/500 [01:36<01:23, 2.80it/s]
Power Factorization: 53%	266/500 [01:36<01:19, 2.94it/s]
Power Factorization: 53%	267/500 [01:36<01:20, 2.89it/s]
Power Factorization: 54%	268/500 [01:37<01:18, 2.95it/s]
Power Factorization: 54%	269/500 [01:37<01:15, 3.06it/s]
Power Factorization: 54%	270/500 [01:37<01:17, 2.97it/s]
Power Factorization: 54%	271/500 [01:38<01:13, 3.10it/s]
Power Factorization: 54%	272/500 [01:38<01:12, 3.14it/s]
Power Factorization: 55%	273/500 [01:38<01:14, 3.04it/s]
Power Factorization: 55%	274/500 [01:39<01:15, 2.99it/s]
Power Factorization: 55%	275/500 [01:39<01:20, 2.80it/s]
Power Factorization: 55%	276/500 [01:40<01:21, 2.75it/s]
Power Factorization: 55%	277/500 [01:40<01:21, 2.75it/s]
Power Factorization: 56%	278/500 [01:40<01:17, 2.87it/s]
Power Factorization: 56%	279/500 [01:41<01:15, 2.92it/s]
Power Factorization: 56%	280/500 [01:41<01:13, 2.99it/s]
Power Factorization: 56%	281/500 [01:41<01:12, 3.03it/s]
Power Factorization: 56%	282/500 [01:41<01:11, 3.04it/s]
Power Factorization: 57%	283/500 [01:42<01:14, 2.92it/s]
Power Factorization: 57%	284/500 [01:42<01:17, 2.77it/s]
Power Factorization: 57%	285/500 [01:43<01:21, 2.65it/s]
Power Factorization: 57%	286/500 [01:43<01:19, 2.70it/s]
Power Factorization: 57%	287/500 [01:43<01:17, 2.73it/s]

Power Factorization: 58%	288/500 [01:44<01:13, 2.87it/s]
Power Factorization: 58%	289/500 [01:44<01:10, 2.99it/s]
Power Factorization: 58%	290/500 [01:44<01:14, 2.80it/s]
Power Factorization: 58%	291/500 [01:45<01:10, 2.96it/s]
Power Factorization: 58%	292/500 [01:45<01:09, 3.01it/s]
Power Factorization: 59%	293/500 [01:45<01:09, 2.97it/s]
Power Factorization: 59%	294/500 [01:46<01:07, 3.04it/s]
Power Factorization: 59%	295/500 [01:46<01:08, 2.98it/s]
Power Factorization: 59%	296/500 [01:46<01:10, 2.91it/s]
Power Factorization: 59%	297/500 [01:47<01:07, 3.02it/s]
Power Factorization: 60%	298/500 [01:47<01:06, 3.05it/s]
Power Factorization: 60%	299/500 [01:47<01:05, 3.06it/s]
Power Factorization: 60%	300/500 [01:48<01:05, 3.07it/s]
Power Factorization: 60%	301/500 [01:48<01:05, 3.04it/s]
Power Factorization: 60%	302/500 [01:48<01:08, 2.91it/s]
Power Factorization: 61%	303/500 [01:49<01:09, 2.83it/s]
Power Factorization: 61%	304/500 [01:49<01:10, 2.76it/s]
Power Factorization: 61%	305/500 [01:49<01:08, 2.86it/s]
Power Factorization: 61%	306/500 [01:50<01:06, 2.94it/s]
Power Factorization: 61%	307/500 [01:50<01:03, 3.03it/s]
Power Factorization: 62%	308/500 [01:50<01:03, 3.01it/s]
Power Factorization: 62%	309/500 [01:51<01:02, 3.04it/s]
Power Factorization: 62%	310/500 [01:51<01:01, 3.10it/s]
Power Factorization: 62%	311/500 [01:51<01:03, 2.98it/s]

Power Factorization: 62%	312/500 [01:52<01:02, 3.02it/s]
Power Factorization: 63%	313/500 [01:52<01:03, 2.95it/s]
Power Factorization: 63%	314/500 [01:52<01:02, 2.99it/s]
Power Factorization: 63%	315/500 [01:53<01:05, 2.82it/s]
Power Factorization: 63%	316/500 [01:53<01:03, 2.89it/s]
Power Factorization: 63%	317/500 [01:54<01:04, 2.84it/s]
Power Factorization: 64%	318/500 [01:54<01:01, 2.97it/s]
Power Factorization: 64%	319/500 [01:54<01:00, 2.99it/s]
Power Factorization: 64%	320/500 [01:54<00:59, 3.05it/s]
Power Factorization: 64%	321/500 [01:55<00:57, 3.11it/s]
Power Factorization: 64%	322/500 [01:55<00:57, 3.08it/s]
Power Factorization: 65%	323/500 [01:55<00:55, 3.16it/s]
Power Factorization: 65%	324/500 [01:56<00:55, 3.15it/s]
Power Factorization: 65%	325/500 [01:56<00:54, 3.22it/s]
Power Factorization: 65%	326/500 [01:56<00:54, 3.19it/s]
Power Factorization: 65%	327/500 [01:57<00:56, 3.06it/s]
Power Factorization: 66%	328/500 [01:57<00:57, 3.01it/s]
Power Factorization: 66%	329/500 [01:57<00:56, 3.02it/s]
Power Factorization: 66%	330/500 [01:58<00:57, 2.96it/s]
Power Factorization: 66%	331/500 [01:58<00:55, 3.05it/s]
Power Factorization: 66%	332/500 [01:58<00:54, 3.06it/s]
Power Factorization: 67%	333/500 [01:59<00:53, 3.10it/s]
Power Factorization: 67%	334/500 [01:59<00:53, 3.09it/s]
Power Factorization: 67%	335/500 [01:59<00:54, 3.03it/s]

Power Factorization: 67%	336/500 [02:00<00:54, 3.01it/s]
Power Factorization: 67%	337/500 [02:00<00:53, 3.07it/s]
Power Factorization: 68%	338/500 [02:00<00:52, 3.07it/s]
Power Factorization: 68%	339/500 [02:01<00:53, 3.01it/s]
Power Factorization: 68%	340/500 [02:01<00:51, 3.08it/s]
Power Factorization: 68%	341/500 [02:01<00:52, 3.06it/s]
Power Factorization: 68%	342/500 [02:02<00:50, 3.11it/s]
Power Factorization: 69%	343/500 [02:02<00:50, 3.10it/s]
Power Factorization: 69%	344/500 [02:02<00:48, 3.19it/s]
Power Factorization: 69%	345/500 [02:02<00:47, 3.26it/s]
Power Factorization: 69%	346/500 [02:03<00:49, 3.11it/s]
Power Factorization: 69%	347/500 [02:03<00:47, 3.20it/s]
Power Factorization: 70%	348/500 [02:03<00:48, 3.11it/s]
Power Factorization: 70%	349/500 [02:04<00:48, 3.09it/s]
Power Factorization: 70%	350/500 [02:04<00:49, 3.03it/s]
Power Factorization: 70%	351/500 [02:04<00:48, 3.04it/s]
Power Factorization: 70%	352/500 [02:05<00:49, 2.98it/s]
Power Factorization: 71%	353/500 [02:05<00:47, 3.11it/s]
Power Factorization: 71%	354/500 [02:05<00:45, 3.18it/s]
Power Factorization: 71%	355/500 [02:06<00:46, 3.10it/s]
Power Factorization: 71%	356/500 [02:06<00:45, 3.13it/s]
Power Factorization: 71%	357/500 [02:06<00:45, 3.18it/s]
Power Factorization: 72%	358/500 [02:07<00:45, 3.12it/s]
Power Factorization: 72%	359/500 [02:07<00:45, 3.09it/s]

Power Factorization: 72%	360/500 [02:07<00:43,	3.21it/s]
Power Factorization: 72%	361/500 [02:08<00:43,	3.23it/s]
Power Factorization: 72%	362/500 [02:08<00:42,	3.26it/s]
Power Factorization: 73%	363/500 [02:08<00:43,	3.14it/s]
Power Factorization: 73%	364/500 [02:09<00:43,	3.16it/s]
Power Factorization: 73%	365/500 [02:09<00:43,	3.10it/s]
Power Factorization: 73%	366/500 [02:09<00:45,	2.98it/s]
Power Factorization: 73%	367/500 [02:10<00:42,	3.11it/s]
Power Factorization: 74%	368/500 [02:10<00:43,	3.01it/s]
Power Factorization: 74%	369/500 [02:10<00:44,	2.92it/s]
Power Factorization: 74%	370/500 [02:11<00:43,	2.97it/s]
Power Factorization: 74%	371/500 [02:11<00:42,	3.00it/s]
Power Factorization: 74%	372/500 [02:11<00:41,	3.08it/s]
Power Factorization: 75%	373/500 [02:12<00:40,	3.15it/s]
Power Factorization: 75%	374/500 [02:12<00:42,	2.96it/s]
Power Factorization: 75%	375/500 [02:12<00:41,	3.01it/s]
Power Factorization: 75%	376/500 [02:13<00:40,	3.04it/s]
Power Factorization: 75%	377/500 [02:13<00:40,	3.06it/s]
Power Factorization: 76%	378/500 [02:13<00:40,	3.02it/s]
Power Factorization: 76%	379/500 [02:14<00:39,	3.05it/s]
Power Factorization: 76%	380/500 [02:14<00:38,	3.11it/s]
Power Factorization: 76%	381/500 [02:14<00:38,	3.11it/s]
Power Factorization: 76%	382/500 [02:15<00:37,	3.13it/s]
Power Factorization: 77%	383/500 [02:15<00:37,	3.10it/s]

Power Factorization: 77%	384/500 [02:15<00:39, 2.92it/s]
Power Factorization: 77%	385/500 [02:16<00:38, 2.97it/s]
Power Factorization: 77%	386/500 [02:16<00:36, 3.08it/s]
Power Factorization: 77%	387/500 [02:16<00:36, 3.06it/s]
Power Factorization: 78%	388/500 [02:16<00:35, 3.15it/s]
Power Factorization: 78%	389/500 [02:17<00:36, 3.05it/s]
Power Factorization: 78%	390/500 [02:17<00:37, 2.96it/s]
Power Factorization: 78%	391/500 [02:18<00:37, 2.91it/s]
Power Factorization: 78%	392/500 [02:18<00:36, 2.97it/s]
Power Factorization: 79%	393/500 [02:18<00:35, 2.99it/s]
Power Factorization: 79%	394/500 [02:19<00:36, 2.90it/s]
Power Factorization: 79%	395/500 [02:19<00:35, 2.97it/s]
Power Factorization: 79%	396/500 [02:19<00:35, 2.97it/s]
Power Factorization: 79%	397/500 [02:20<00:33, 3.03it/s]
Power Factorization: 80%	398/500 [02:20<00:33, 3.02it/s]
Power Factorization: 80%	399/500 [02:20<00:33, 3.05it/s]
Power Factorization: 80%	400/500 [02:20<00:31, 3.15it/s]
Power Factorization: 80%	401/500 [02:21<00:30, 3.20it/s]
Power Factorization: 80%	402/500 [02:21<00:31, 3.13it/s]
Power Factorization: 81%	403/500 [02:21<00:31, 3.11it/s]
Power Factorization: 81%	404/500 [02:22<00:31, 3.09it/s]
Power Factorization: 81%	405/500 [02:22<00:30, 3.07it/s]
Power Factorization: 81%	406/500 [02:22<00:31, 2.94it/s]
Power Factorization: 81%	407/500 [02:23<00:32, 2.89it/s]

Power Factorization: 82%	408/500 [02:23<00:32,	2.85it/s]
Power Factorization: 82%	409/500 [02:24<00:31,	2.90it/s]
Power Factorization: 82%	410/500 [02:24<00:30,	2.99it/s]
Power Factorization: 82%	411/500 [02:24<00:30,	2.87it/s]
Power Factorization: 82%	412/500 [02:25<00:30,	2.88it/s]
Power Factorization: 83%	413/500 [02:25<00:30,	2.89it/s]
Power Factorization: 83%	414/500 [02:25<00:28,	3.03it/s]
Power Factorization: 83%	415/500 [02:26<00:28,	2.99it/s]
Power Factorization: 83%	416/500 [02:26<00:27,	3.03it/s]
Power Factorization: 83%	417/500 [02:26<00:27,	3.05it/s]
Power Factorization: 84%	418/500 [02:26<00:26,	3.12it/s]
Power Factorization: 84%	419/500 [02:27<00:27,	2.97it/s]
Power Factorization: 84%	420/500 [02:27<00:26,	3.01it/s]
Power Factorization: 84%	421/500 [02:28<00:26,	2.98it/s]
Power Factorization: 84%	422/500 [02:28<00:27,	2.87it/s]
Power Factorization: 85%	423/500 [02:28<00:27,	2.76it/s]
Power Factorization: 85%	424/500 [02:29<00:26,	2.91it/s]
Power Factorization: 85%	425/500 [02:29<00:25,	2.99it/s]
Power Factorization: 85%	426/500 [02:29<00:24,	2.98it/s]
Power Factorization: 85%	427/500 [02:30<00:23,	3.11it/s]
Power Factorization: 86%	428/500 [02:30<00:23,	3.06it/s]
Power Factorization: 86%	429/500 [02:30<00:22,	3.14it/s]
Power Factorization: 86%	430/500 [02:31<00:22,	3.09it/s]
Power Factorization: 86%	431/500 [02:31<00:22,	3.07it/s]

Power Factorization: 86%	432/500 [02:31<00:22,	3.06it/s]
Power Factorization: 87%	433/500 [02:31<00:21,	3.13it/s]
Power Factorization: 87%	434/500 [02:32<00:20,	3.17it/s]
Power Factorization: 87%	435/500 [02:32<00:20,	3.18it/s]
Power Factorization: 87%	436/500 [02:32<00:21,	3.03it/s]
Power Factorization: 87%	437/500 [02:33<00:20,	3.12it/s]
Power Factorization: 88%	438/500 [02:33<00:19,	3.10it/s]
Power Factorization: 88%	439/500 [02:33<00:19,	3.10it/s]
Power Factorization: 88%	440/500 [02:34<00:19,	3.06it/s]
Power Factorization: 88%	441/500 [02:34<00:18,	3.14it/s]
Power Factorization: 88%	442/500 [02:34<00:18,	3.14it/s]
Power Factorization: 89%	443/500 [02:35<00:18,	3.06it/s]
Power Factorization: 89%	444/500 [02:35<00:18,	3.07it/s]
Power Factorization: 89%	445/500 [02:35<00:18,	3.03it/s]
Power Factorization: 89%	446/500 [02:36<00:18,	2.98it/s]
Power Factorization: 89%	447/500 [02:36<00:18,	2.80it/s]
Power Factorization: 90%	448/500 [02:37<00:18,	2.77it/s]
Power Factorization: 90%	449/500 [02:37<00:17,	2.87it/s]
Power Factorization: 90%	450/500 [02:37<00:17,	2.88it/s]
Power Factorization: 90%	451/500 [02:37<00:16,	2.95it/s]
Power Factorization: 90%	452/500 [02:38<00:16,	2.97it/s]
Power Factorization: 91%	453/500 [02:38<00:15,	3.01it/s]
Power Factorization: 91%	454/500 [02:39<00:15,	2.92it/s]
Power Factorization: 91%	455/500 [02:39<00:14,	3.01it/s]

Power Factorization: 91%	456/500 [02:39<00:14, 3.00it/s]
Power Factorization: 91%	457/500 [02:40<00:14, 2.97it/s]
Power Factorization: 92%	458/500 [02:40<00:14, 2.93it/s]
Power Factorization: 92%	459/500 [02:40<00:14, 2.87it/s]
Power Factorization: 92%	460/500 [02:41<00:13, 2.96it/s]
Power Factorization: 92%	461/500 [02:41<00:12, 3.04it/s]
Power Factorization: 92%	462/500 [02:41<00:12, 3.04it/s]
Power Factorization: 93%	463/500 [02:41<00:11, 3.12it/s]
Power Factorization: 93%	464/500 [02:42<00:11, 3.08it/s]
Power Factorization: 93%	465/500 [02:42<00:11, 3.08it/s]
Power Factorization: 93%	466/500 [02:43<00:11, 2.92it/s]
Power Factorization: 93%	467/500 [02:43<00:11, 2.83it/s]
Power Factorization: 94%	468/500 [02:43<00:11, 2.87it/s]
Power Factorization: 94%	469/500 [02:44<00:10, 2.85it/s]
Power Factorization: 94%	470/500 [02:44<00:10, 2.98it/s]
Power Factorization: 94%	471/500 [02:44<00:09, 3.07it/s]
Power Factorization: 94%	472/500 [02:45<00:09, 3.01it/s]
Power Factorization: 95%	473/500 [02:45<00:08, 3.17it/s]
Power Factorization: 95%	474/500 [02:45<00:08, 3.13it/s]
Power Factorization: 95%	475/500 [02:45<00:07, 3.18it/s]
Power Factorization: 95%	476/500 [02:46<00:08, 2.91it/s]
Power Factorization: 95%	477/500 [02:46<00:08, 2.82it/s]
Power Factorization: 96%	478/500 [02:47<00:07, 2.85it/s]
Power Factorization: 96%	479/500 [02:47<00:07, 2.84it/s]

Power Factorization: 96%	480/500 [02:47<00:07, 2.71it/s]
Power Factorization: 96%	481/500 [02:48<00:07, 2.67it/s]
Power Factorization: 96%	482/500 [02:48<00:06, 2.79it/s]
Power Factorization: 97%	483/500 [02:48<00:06, 2.82it/s]
Power Factorization: 97%	484/500 [02:49<00:05, 3.00it/s]
Power Factorization: 97%	485/500 [02:49<00:04, 3.08it/s]
Power Factorization: 97%	486/500 [02:49<00:04, 3.05it/s]
Power Factorization: 97%	487/500 [02:50<00:04, 3.06it/s]
Power Factorization: 98%	488/500 [02:50<00:04, 2.94it/s]
Power Factorization: 98%	489/500 [02:50<00:03, 2.87it/s]
Power Factorization: 98%	490/500 [02:51<00:03, 2.94it/s]
Power Factorization: 98%	491/500 [02:51<00:03, 2.91it/s]
Power Factorization: 98%	492/500 [02:51<00:02, 2.84it/s]
Power Factorization: 99%	493/500 [02:52<00:02, 2.89it/s]
Power Factorization: 99%	494/500 [02:52<00:02, 2.85it/s]
Power Factorization: 99%	495/500 [02:52<00:01, 2.82it/s]
Power Factorization: 99%	496/500 [02:53<00:01, 2.87it/s]
Power Factorization: 99%	497/500 [02:53<00:01, 2.93it/s]
Power Factorization: 100%	498/500 [02:53<00:00, 3.05it/s]
Power Factorization: 100%	499/500 [02:54<00:00, 3.06it/s]
Power Factorization: 100%	500/500 [02:54<00:00, 2.86it/s]
Cross Validation: 20%	1/5 [02:54<11:38, 174.70s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:36, 3.18it/s]

Power Factorization:	0%	2/500 [00:00<02:33, 3.25it/s]
Power Factorization:	1%	3/500 [00:00<02:46, 2.99it/s]
Power Factorization:	1%	4/500 [00:01<02:51, 2.90it/s]
Power Factorization:	1%	5/500 [00:01<02:47, 2.95it/s]
Power Factorization:	1%	6/500 [00:01<02:38, 3.11it/s]
Power Factorization:	1%	7/500 [00:02<02:29, 3.31it/s]
Power Factorization:	2%	8/500 [00:02<02:35, 3.17it/s]
Power Factorization:	2%	9/500 [00:02<02:31, 3.23it/s]
Power Factorization:	2%	10/500 [00:03<02:42, 3.02it/s]
Power Factorization:	2%	11/500 [00:03<02:39, 3.07it/s]
Power Factorization:	2%	12/500 [00:03<02:39, 3.06it/s]
Power Factorization:	3%	13/500 [00:04<02:45, 2.94it/s]
Power Factorization:	3%	14/500 [00:04<02:40, 3.03it/s]
Power Factorization:	3%	15/500 [00:04<02:39, 3.05it/s]
Power Factorization:	3%	16/500 [00:05<02:37, 3.08it/s]
Power Factorization:	3%	17/500 [00:05<02:37, 3.06it/s]
Power Factorization:	4%	18/500 [00:05<02:33, 3.14it/s]
Power Factorization:	4%	19/500 [00:06<02:36, 3.06it/s]
Power Factorization:	4%	20/500 [00:06<02:35, 3.09it/s]
Power Factorization:	4%	21/500 [00:06<02:33, 3.12it/s]
Power Factorization:	4%	22/500 [00:07<02:30, 3.17it/s]
Power Factorization:	5%	23/500 [00:07<02:28, 3.21it/s]
Power Factorization:	5%	24/500 [00:07<02:30, 3.16it/s]
Power Factorization:	5%	25/500 [00:08<02:35, 3.06it/s]

Power Factorization:	5%	26/500	[00:08<02:40,	2.96it/s]
Power Factorization:	5%	27/500	[00:08<02:41,	2.93it/s]
Power Factorization:	6%	28/500	[00:09<02:38,	2.98it/s]
Power Factorization:	6%	29/500	[00:09<02:40,	2.93it/s]
Power Factorization:	6%	30/500	[00:09<02:46,	2.81it/s]
Power Factorization:	6%	31/500	[00:10<02:43,	2.88it/s]
Power Factorization:	6%	32/500	[00:10<02:39,	2.93it/s]
Power Factorization:	7%	33/500	[00:10<02:37,	2.96it/s]
Power Factorization:	7%	34/500	[00:11<02:39,	2.92it/s]
Power Factorization:	7%	35/500	[00:11<02:43,	2.85it/s]
Power Factorization:	7%	36/500	[00:11<02:42,	2.86it/s]
Power Factorization:	7%	37/500	[00:12<02:38,	2.92it/s]
Power Factorization:	8%	38/500	[00:12<02:32,	3.04it/s]
Power Factorization:	8%	39/500	[00:12<02:29,	3.08it/s]
Power Factorization:	8%	40/500	[00:13<02:34,	2.97it/s]
Power Factorization:	8%	41/500	[00:13<02:32,	3.01it/s]
Power Factorization:	8%	42/500	[00:13<02:36,	2.92it/s]
Power Factorization:	9%	43/500	[00:14<02:53,	2.63it/s]
Power Factorization:	9%	44/500	[00:14<02:52,	2.65it/s]
Power Factorization:	9%	45/500	[00:15<02:39,	2.85it/s]
Power Factorization:	9%	46/500	[00:15<02:37,	2.89it/s]
Power Factorization:	9%	47/500	[00:15<02:55,	2.58it/s]
Power Factorization:	10%	48/500	[00:16<02:45,	2.74it/s]
Power Factorization:	10%	49/500	[00:16<02:37,	2.85it/s]

Power Factorization: 10%	50/500 [00:16<02:36, 2.87it/s]
Power Factorization: 10%	51/500 [00:17<02:32, 2.94it/s]
Power Factorization: 10%	52/500 [00:17<02:42, 2.76it/s]
Power Factorization: 11%	53/500 [00:17<02:32, 2.93it/s]
Power Factorization: 11%	54/500 [00:18<02:29, 2.98it/s]
Power Factorization: 11%	55/500 [00:18<02:23, 3.09it/s]
Power Factorization: 11%	56/500 [00:18<02:37, 2.82it/s]
Power Factorization: 11%	57/500 [00:19<02:34, 2.87it/s]
Power Factorization: 12%	58/500 [00:19<02:28, 2.98it/s]
Power Factorization: 12%	59/500 [00:19<02:26, 3.02it/s]
Power Factorization: 12%	60/500 [00:20<02:28, 2.97it/s]
Power Factorization: 12%	61/500 [00:20<02:28, 2.96it/s]
Power Factorization: 12%	62/500 [00:20<02:24, 3.04it/s]
Power Factorization: 13%	63/500 [00:21<02:19, 3.14it/s]
Power Factorization: 13%	64/500 [00:21<02:18, 3.15it/s]
Power Factorization: 13%	65/500 [00:21<02:18, 3.15it/s]
Power Factorization: 13%	66/500 [00:22<02:38, 2.73it/s]
Power Factorization: 13%	67/500 [00:22<02:36, 2.77it/s]
Power Factorization: 14%	68/500 [00:22<02:32, 2.83it/s]
Power Factorization: 14%	69/500 [00:23<02:24, 2.97it/s]
Power Factorization: 14%	70/500 [00:23<02:26, 2.94it/s]
Power Factorization: 14%	71/500 [00:23<02:27, 2.91it/s]
Power Factorization: 14%	72/500 [00:24<02:27, 2.89it/s]
Power Factorization: 15%	73/500 [00:24<02:31, 2.82it/s]

Power Factorization: 15%	74/500 [00:25<02:29, 2.84it/s]
Power Factorization: 15%	75/500 [00:25<02:26, 2.90it/s]
Power Factorization: 15%	76/500 [00:25<02:24, 2.94it/s]
Power Factorization: 15%	77/500 [00:25<02:19, 3.03it/s]
Power Factorization: 16%	78/500 [00:26<02:37, 2.69it/s]
Power Factorization: 16%	79/500 [00:26<02:30, 2.79it/s]
Power Factorization: 16%	80/500 [00:27<02:25, 2.89it/s]
Power Factorization: 16%	81/500 [00:27<02:18, 3.03it/s]
Power Factorization: 16%	82/500 [00:27<02:15, 3.09it/s]
Power Factorization: 17%	83/500 [00:28<02:16, 3.06it/s]
Power Factorization: 17%	84/500 [00:28<02:21, 2.95it/s]
Power Factorization: 17%	85/500 [00:28<02:21, 2.93it/s]
Power Factorization: 17%	86/500 [00:29<02:15, 3.05it/s]
Power Factorization: 17%	87/500 [00:29<02:13, 3.10it/s]
Power Factorization: 18%	88/500 [00:29<02:15, 3.05it/s]
Power Factorization: 18%	89/500 [00:30<02:12, 3.09it/s]
Power Factorization: 18%	90/500 [00:30<02:13, 3.07it/s]
Power Factorization: 18%	91/500 [00:30<02:08, 3.17it/s]
Power Factorization: 18%	92/500 [00:30<02:08, 3.17it/s]
Power Factorization: 19%	93/500 [00:31<02:11, 3.10it/s]
Power Factorization: 19%	94/500 [00:31<02:11, 3.09it/s]
Power Factorization: 19%	95/500 [00:32<02:24, 2.81it/s]
Power Factorization: 19%	96/500 [00:32<02:23, 2.82it/s]
Power Factorization: 19%	97/500 [00:32<02:19, 2.88it/s]

Power Factorization: 20%	98/500 [00:33<02:14, 2.98it/s]
Power Factorization: 20%	99/500 [00:33<02:08, 3.13it/s]
Power Factorization: 20%	100/500 [00:33<02:19, 2.88it/s]
Power Factorization: 20%	101/500 [00:34<02:17, 2.90it/s]
Power Factorization: 20%	102/500 [00:34<02:18, 2.87it/s]
Power Factorization: 21%	103/500 [00:34<02:17, 2.88it/s]
Power Factorization: 21%	104/500 [00:35<02:19, 2.84it/s]
Power Factorization: 21%	105/500 [00:35<02:14, 2.93it/s]
Power Factorization: 21%	106/500 [00:35<02:15, 2.92it/s]
Power Factorization: 21%	107/500 [00:36<02:17, 2.86it/s]
Power Factorization: 22%	108/500 [00:36<02:12, 2.97it/s]
Power Factorization: 22%	109/500 [00:36<02:12, 2.96it/s]
Power Factorization: 22%	110/500 [00:37<02:12, 2.93it/s]
Power Factorization: 22%	111/500 [00:37<02:09, 3.01it/s]
Power Factorization: 22%	112/500 [00:37<02:12, 2.93it/s]
Power Factorization: 23%	113/500 [00:38<02:10, 2.97it/s]
Power Factorization: 23%	114/500 [00:38<02:08, 3.00it/s]
Power Factorization: 23%	115/500 [00:38<02:04, 3.09it/s]
Power Factorization: 23%	116/500 [00:39<02:03, 3.11it/s]
Power Factorization: 23%	117/500 [00:39<02:03, 3.09it/s]
Power Factorization: 24%	118/500 [00:39<02:05, 3.04it/s]
Power Factorization: 24%	119/500 [00:40<02:02, 3.11it/s]
Power Factorization: 24%	120/500 [00:40<02:07, 2.99it/s]
Power Factorization: 24%	121/500 [00:40<02:10, 2.91it/s]

Power Factorization: 24%	122/500 [00:41<02:17, 2.74it/s]
Power Factorization: 25%	123/500 [00:41<02:18, 2.71it/s]
Power Factorization: 25%	124/500 [00:41<02:11, 2.87it/s]
Power Factorization: 25%	125/500 [00:42<02:06, 2.95it/s]
Power Factorization: 25%	126/500 [00:42<02:09, 2.89it/s]
Power Factorization: 25%	127/500 [00:42<02:11, 2.83it/s]
Power Factorization: 26%	128/500 [00:43<02:13, 2.78it/s]
Power Factorization: 26%	129/500 [00:43<02:13, 2.77it/s]
Power Factorization: 26%	130/500 [00:43<02:04, 2.97it/s]
Power Factorization: 26%	131/500 [00:44<02:12, 2.79it/s]
Power Factorization: 26%	132/500 [00:44<02:09, 2.84it/s]
Power Factorization: 27%	133/500 [00:45<02:06, 2.91it/s]
Power Factorization: 27%	134/500 [00:45<02:03, 2.96it/s]
Power Factorization: 27%	135/500 [00:45<02:06, 2.89it/s]
Power Factorization: 27%	136/500 [00:46<02:04, 2.93it/s]
Power Factorization: 27%	137/500 [00:46<02:04, 2.92it/s]
Power Factorization: 28%	138/500 [00:46<02:01, 2.97it/s]
Power Factorization: 28%	139/500 [00:47<02:09, 2.79it/s]
Power Factorization: 28%	140/500 [00:47<02:10, 2.76it/s]
Power Factorization: 28%	141/500 [00:47<02:06, 2.83it/s]
Power Factorization: 28%	142/500 [00:48<02:01, 2.94it/s]
Power Factorization: 29%	143/500 [00:48<01:57, 3.04it/s]
Power Factorization: 29%	144/500 [00:48<01:56, 3.06it/s]
Power Factorization: 29%	145/500 [00:49<01:55, 3.09it/s]

Power Factorization: 29%	146/500 [00:49<01:55, 3.07it/s]
Power Factorization: 29%	147/500 [00:49<01:53, 3.10it/s]
Power Factorization: 30%	148/500 [00:50<01:51, 3.15it/s]
Power Factorization: 30%	149/500 [00:50<01:54, 3.06it/s]
Power Factorization: 30%	150/500 [00:50<02:00, 2.90it/s]
Power Factorization: 30%	151/500 [00:51<01:56, 3.00it/s]
Power Factorization: 30%	152/500 [00:51<02:01, 2.86it/s]
Power Factorization: 31%	153/500 [00:51<01:55, 2.99it/s]
Power Factorization: 31%	154/500 [00:52<01:57, 2.96it/s]
Power Factorization: 31%	155/500 [00:52<01:53, 3.04it/s]
Power Factorization: 31%	156/500 [00:52<01:55, 2.97it/s]
Power Factorization: 31%	157/500 [00:53<01:50, 3.11it/s]
Power Factorization: 32%	158/500 [00:53<01:51, 3.05it/s]
Power Factorization: 32%	159/500 [00:53<01:53, 3.01it/s]
Power Factorization: 32%	160/500 [00:54<01:50, 3.09it/s]
Power Factorization: 32%	161/500 [00:54<01:47, 3.15it/s]
Power Factorization: 32%	162/500 [00:54<01:56, 2.90it/s]
Power Factorization: 33%	163/500 [00:55<01:53, 2.97it/s]
Power Factorization: 33%	164/500 [00:55<01:49, 3.06it/s]
Power Factorization: 33%	165/500 [00:55<01:49, 3.07it/s]
Power Factorization: 33%	166/500 [00:56<01:48, 3.09it/s]
Power Factorization: 33%	167/500 [00:56<01:51, 2.99it/s]
Power Factorization: 34%	168/500 [00:56<01:52, 2.96it/s]
Power Factorization: 34%	169/500 [00:57<01:52, 2.95it/s]

Power Factorization: 34%	170/500 [00:57<01:50, 2.98it/s]
Power Factorization: 34%	171/500 [00:57<01:49, 3.01it/s]
Power Factorization: 34%	172/500 [00:58<01:47, 3.05it/s]
Power Factorization: 35%	173/500 [00:58<01:48, 3.01it/s]
Power Factorization: 35%	174/500 [00:58<01:48, 3.01it/s]
Power Factorization: 35%	175/500 [00:59<01:44, 3.11it/s]
Power Factorization: 35%	176/500 [00:59<01:45, 3.07it/s]
Power Factorization: 35%	177/500 [00:59<01:45, 3.07it/s]
Power Factorization: 36%	178/500 [00:59<01:44, 3.09it/s]
Power Factorization: 36%	179/500 [01:00<01:45, 3.04it/s]
Power Factorization: 36%	180/500 [01:00<01:43, 3.09it/s]
Power Factorization: 36%	181/500 [01:00<01:43, 3.08it/s]
Power Factorization: 36%	182/500 [01:01<01:43, 3.06it/s]
Power Factorization: 37%	183/500 [01:01<01:46, 2.98it/s]
Power Factorization: 37%	184/500 [01:02<01:47, 2.93it/s]
Power Factorization: 37%	185/500 [01:02<01:47, 2.94it/s]
Power Factorization: 37%	186/500 [01:02<01:46, 2.94it/s]
Power Factorization: 37%	187/500 [01:03<01:44, 2.98it/s]
Power Factorization: 38%	188/500 [01:03<01:43, 3.02it/s]
Power Factorization: 38%	189/500 [01:03<01:42, 3.02it/s]
Power Factorization: 38%	190/500 [01:03<01:40, 3.07it/s]
Power Factorization: 38%	191/500 [01:04<01:44, 2.94it/s]
Power Factorization: 38%	192/500 [01:04<01:39, 3.10it/s]
Power Factorization: 39%	193/500 [01:04<01:41, 3.02it/s]

Power Factorization: 39%	194/500 [01:05<01:44,	2.94it/s]
Power Factorization: 39%	195/500 [01:05<01:40,	3.03it/s]
Power Factorization: 39%	196/500 [01:05<01:38,	3.07it/s]
Power Factorization: 39%	197/500 [01:06<01:40,	3.01it/s]
Power Factorization: 40%	198/500 [01:06<01:39,	3.03it/s]
Power Factorization: 40%	199/500 [01:07<01:41,	2.96it/s]
Power Factorization: 40%	200/500 [01:07<01:40,	2.99it/s]
Power Factorization: 40%	201/500 [01:07<01:37,	3.07it/s]
Power Factorization: 40%	202/500 [01:07<01:39,	3.00it/s]
Power Factorization: 41%	203/500 [01:08<01:36,	3.06it/s]
Power Factorization: 41%	204/500 [01:08<01:34,	3.14it/s]
Power Factorization: 41%	205/500 [01:08<01:38,	3.01it/s]
Power Factorization: 41%	206/500 [01:09<01:36,	3.06it/s]
Power Factorization: 41%	207/500 [01:09<01:37,	3.02it/s]
Power Factorization: 42%	208/500 [01:09<01:35,	3.05it/s]
Power Factorization: 42%	209/500 [01:10<01:36,	3.01it/s]
Power Factorization: 42%	210/500 [01:10<01:37,	2.97it/s]
Power Factorization: 42%	211/500 [01:10<01:36,	3.00it/s]
Power Factorization: 42%	212/500 [01:11<01:33,	3.09it/s]
Power Factorization: 43%	213/500 [01:11<01:31,	3.14it/s]
Power Factorization: 43%	214/500 [01:11<01:31,	3.12it/s]
Power Factorization: 43%	215/500 [01:12<01:33,	3.05it/s]
Power Factorization: 43%	216/500 [01:12<01:37,	2.92it/s]
Power Factorization: 43%	217/500 [01:12<01:36,	2.94it/s]

Power Factorization: 44%	218/500 [01:13<01:33, 3.03it/s]
Power Factorization: 44%	219/500 [01:13<01:32, 3.04it/s]
Power Factorization: 44%	220/500 [01:13<01:30, 3.08it/s]
Power Factorization: 44%	221/500 [01:14<01:30, 3.10it/s]
Power Factorization: 44%	222/500 [01:14<01:30, 3.06it/s]
Power Factorization: 45%	223/500 [01:14<01:27, 3.18it/s]
Power Factorization: 45%	224/500 [01:15<01:35, 2.88it/s]
Power Factorization: 45%	225/500 [01:15<01:34, 2.91it/s]
Power Factorization: 45%	226/500 [01:15<01:30, 3.01it/s]
Power Factorization: 45%	227/500 [01:16<01:29, 3.05it/s]
Power Factorization: 46%	228/500 [01:16<01:27, 3.12it/s]
Power Factorization: 46%	229/500 [01:16<01:26, 3.12it/s]
Power Factorization: 46%	230/500 [01:17<01:25, 3.17it/s]
Power Factorization: 46%	231/500 [01:17<01:23, 3.21it/s]
Power Factorization: 46%	232/500 [01:17<01:24, 3.16it/s]
Power Factorization: 47%	233/500 [01:18<01:30, 2.94it/s]
Power Factorization: 47%	234/500 [01:18<01:31, 2.91it/s]
Power Factorization: 47%	235/500 [01:18<01:29, 2.98it/s]
Power Factorization: 47%	236/500 [01:19<01:26, 3.05it/s]
Power Factorization: 47%	237/500 [01:19<01:25, 3.08it/s]
Power Factorization: 48%	238/500 [01:19<01:22, 3.19it/s]
Power Factorization: 48%	239/500 [01:20<01:24, 3.09it/s]
Power Factorization: 48%	240/500 [01:20<01:23, 3.12it/s]
Power Factorization: 48%	241/500 [01:20<01:26, 3.01it/s]

Power Factorization: 48%	242/500 [01:21<01:24, 3.07it/s]
Power Factorization: 49%	243/500 [01:21<01:23, 3.06it/s]
Power Factorization: 49%	244/500 [01:21<01:25, 2.99it/s]
Power Factorization: 49%	245/500 [01:22<01:23, 3.04it/s]
Power Factorization: 49%	246/500 [01:22<01:22, 3.07it/s]
Power Factorization: 49%	247/500 [01:22<01:22, 3.08it/s]
Power Factorization: 50%	248/500 [01:23<01:23, 3.04it/s]
Power Factorization: 50%	249/500 [01:23<01:26, 2.91it/s]
Power Factorization: 50%	250/500 [01:23<01:22, 3.01it/s]
Power Factorization: 50%	251/500 [01:24<01:22, 3.03it/s]
Power Factorization: 50%	252/500 [01:24<01:22, 3.02it/s]
Power Factorization: 51%	253/500 [01:24<01:22, 3.00it/s]
Power Factorization: 51%	254/500 [01:25<01:22, 2.98it/s]
Power Factorization: 51%	255/500 [01:25<01:22, 2.97it/s]
Power Factorization: 51%	256/500 [01:25<01:22, 2.96it/s]
Power Factorization: 51%	257/500 [01:26<01:20, 3.01it/s]
Power Factorization: 52%	258/500 [01:26<01:21, 2.98it/s]
Power Factorization: 52%	259/500 [01:26<01:22, 2.91it/s]
Power Factorization: 52%	260/500 [01:27<01:19, 3.01it/s]
Power Factorization: 52%	261/500 [01:27<01:18, 3.06it/s]
Power Factorization: 52%	262/500 [01:27<01:15, 3.15it/s]
Power Factorization: 53%	263/500 [01:28<01:18, 3.01it/s]
Power Factorization: 53%	264/500 [01:28<01:22, 2.86it/s]
Power Factorization: 53%	265/500 [01:28<01:18, 2.99it/s]

Power Factorization: 53%	266/500 [01:29<01:18, 2.97it/s]
Power Factorization: 53%	267/500 [01:29<01:18, 2.98it/s]
Power Factorization: 54%	268/500 [01:29<01:17, 3.00it/s]
Power Factorization: 54%	269/500 [01:30<01:18, 2.94it/s]
Power Factorization: 54%	270/500 [01:30<01:21, 2.81it/s]
Power Factorization: 54%	271/500 [01:30<01:22, 2.77it/s]
Power Factorization: 54%	272/500 [01:31<01:19, 2.88it/s]
Power Factorization: 55%	273/500 [01:31<01:16, 2.98it/s]
Power Factorization: 55%	274/500 [01:31<01:13, 3.06it/s]
Power Factorization: 55%	275/500 [01:32<01:11, 3.13it/s]
Power Factorization: 55%	276/500 [01:32<01:10, 3.17it/s]
Power Factorization: 55%	277/500 [01:32<01:11, 3.14it/s]
Power Factorization: 56%	278/500 [01:33<01:11, 3.11it/s]
Power Factorization: 56%	279/500 [01:33<01:08, 3.21it/s]
Power Factorization: 56%	280/500 [01:33<01:13, 3.00it/s]
Power Factorization: 56%	281/500 [01:34<01:12, 3.03it/s]
Power Factorization: 56%	282/500 [01:34<01:13, 2.98it/s]
Power Factorization: 57%	283/500 [01:34<01:13, 2.97it/s]
Power Factorization: 57%	284/500 [01:35<01:10, 3.06it/s]
Power Factorization: 57%	285/500 [01:35<01:06, 3.23it/s]
Power Factorization: 57%	286/500 [01:35<01:07, 3.18it/s]
Power Factorization: 57%	287/500 [01:35<01:07, 3.14it/s]
Power Factorization: 58%	288/500 [01:36<01:08, 3.10it/s]
Power Factorization: 58%	289/500 [01:36<01:09, 3.05it/s]

Power Factorization: 58%	290/500 [01:36<01:07, 3.11it/s]
Power Factorization: 58%	291/500 [01:37<01:08, 3.04it/s]
Power Factorization: 58%	292/500 [01:37<01:06, 3.11it/s]
Power Factorization: 59%	293/500 [01:37<01:04, 3.20it/s]
Power Factorization: 59%	294/500 [01:38<01:05, 3.13it/s]
Power Factorization: 59%	295/500 [01:38<01:08, 3.01it/s]
Power Factorization: 59%	296/500 [01:38<01:08, 2.97it/s]
Power Factorization: 59%	297/500 [01:39<01:12, 2.81it/s]
Power Factorization: 60%	298/500 [01:39<01:10, 2.88it/s]
Power Factorization: 60%	299/500 [01:39<01:07, 2.98it/s]
Power Factorization: 60%	300/500 [01:40<01:06, 2.99it/s]
Power Factorization: 60%	301/500 [01:40<01:08, 2.90it/s]
Power Factorization: 60%	302/500 [01:41<01:06, 2.97it/s]
Power Factorization: 61%	303/500 [01:41<01:05, 3.01it/s]
Power Factorization: 61%	304/500 [01:41<01:06, 2.97it/s]
Power Factorization: 61%	305/500 [01:42<01:07, 2.89it/s]
Power Factorization: 61%	306/500 [01:42<01:09, 2.79it/s]
Power Factorization: 61%	307/500 [01:42<01:08, 2.83it/s]
Power Factorization: 62%	308/500 [01:43<01:06, 2.87it/s]
Power Factorization: 62%	309/500 [01:43<01:05, 2.91it/s]
Power Factorization: 62%	310/500 [01:43<01:02, 3.02it/s]
Power Factorization: 62%	311/500 [01:44<00:59, 3.16it/s]
Power Factorization: 62%	312/500 [01:44<01:03, 2.96it/s]
Power Factorization: 63%	313/500 [01:44<01:03, 2.95it/s]

Power Factorization: 63%	314/500 [01:45<01:02, 2.96it/s]
Power Factorization: 63%	315/500 [01:45<01:00, 3.07it/s]
Power Factorization: 63%	316/500 [01:45<00:59, 3.08it/s]
Power Factorization: 63%	317/500 [01:46<00:58, 3.14it/s]
Power Factorization: 64%	318/500 [01:46<00:59, 3.06it/s]
Power Factorization: 64%	319/500 [01:46<00:58, 3.12it/s]
Power Factorization: 64%	320/500 [01:46<00:57, 3.12it/s]
Power Factorization: 64%	321/500 [01:47<00:56, 3.17it/s]
Power Factorization: 64%	322/500 [01:47<00:57, 3.11it/s]
Power Factorization: 65%	323/500 [01:47<00:56, 3.13it/s]
Power Factorization: 65%	324/500 [01:48<00:54, 3.21it/s]
Power Factorization: 65%	325/500 [01:48<00:54, 3.21it/s]
Power Factorization: 65%	326/500 [01:48<00:55, 3.12it/s]
Power Factorization: 65%	327/500 [01:49<00:54, 3.19it/s]
Power Factorization: 66%	328/500 [01:49<00:54, 3.13it/s]
Power Factorization: 66%	329/500 [01:49<00:56, 3.02it/s]
Power Factorization: 66%	330/500 [01:50<00:54, 3.11it/s]
Power Factorization: 66%	331/500 [01:50<00:54, 3.11it/s]
Power Factorization: 66%	332/500 [01:50<00:55, 3.05it/s]
Power Factorization: 67%	333/500 [01:51<00:53, 3.11it/s]
Power Factorization: 67%	334/500 [01:51<00:54, 3.05it/s]
Power Factorization: 67%	335/500 [01:51<00:56, 2.94it/s]
Power Factorization: 67%	336/500 [01:52<00:54, 3.01it/s]
Power Factorization: 67%	337/500 [01:52<00:54, 3.00it/s]

Power Factorization: 68%	338/500 [01:52<00:55, 2.93it/s]
Power Factorization: 68%	339/500 [01:53<00:56, 2.87it/s]
Power Factorization: 68%	340/500 [01:53<00:54, 2.92it/s]
Power Factorization: 68%	341/500 [01:53<00:53, 2.95it/s]
Power Factorization: 68%	342/500 [01:54<00:55, 2.86it/s]
Power Factorization: 69%	343/500 [01:54<00:52, 2.97it/s]
Power Factorization: 69%	344/500 [01:54<00:52, 2.96it/s]
Power Factorization: 69%	345/500 [01:55<00:50, 3.04it/s]
Power Factorization: 69%	346/500 [01:55<00:50, 3.05it/s]
Power Factorization: 69%	347/500 [01:55<00:50, 3.05it/s]
Power Factorization: 70%	348/500 [01:56<00:46, 3.24it/s]
Power Factorization: 70%	349/500 [01:56<00:46, 3.27it/s]
Power Factorization: 70%	350/500 [01:56<00:45, 3.30it/s]
Power Factorization: 70%	351/500 [01:57<00:46, 3.18it/s]
Power Factorization: 70%	352/500 [01:57<00:46, 3.19it/s]
Power Factorization: 71%	353/500 [01:57<00:47, 3.07it/s]
Power Factorization: 71%	354/500 [01:58<00:46, 3.11it/s]
Power Factorization: 71%	355/500 [01:58<00:48, 3.00it/s]
Power Factorization: 71%	356/500 [01:58<00:46, 3.10it/s]
Power Factorization: 71%	357/500 [01:59<00:45, 3.11it/s]
Power Factorization: 72%	358/500 [01:59<00:47, 3.01it/s]
Power Factorization: 72%	359/500 [01:59<00:46, 3.01it/s]
Power Factorization: 72%	360/500 [02:00<00:46, 3.04it/s]
Power Factorization: 72%	361/500 [02:00<00:47, 2.94it/s]

Power Factorization: 72%	362/500 [02:00<00:47, 2.88it/s]
Power Factorization: 73%	363/500 [02:01<00:47, 2.91it/s]
Power Factorization: 73%	364/500 [02:01<00:45, 2.99it/s]
Power Factorization: 73%	365/500 [02:01<00:46, 2.92it/s]
Power Factorization: 73%	366/500 [02:02<00:44, 2.99it/s]
Power Factorization: 73%	367/500 [02:02<00:44, 2.97it/s]
Power Factorization: 74%	368/500 [02:02<00:43, 3.06it/s]
Power Factorization: 74%	369/500 [02:03<00:42, 3.11it/s]
Power Factorization: 74%	370/500 [02:03<00:42, 3.08it/s]
Power Factorization: 74%	371/500 [02:03<00:42, 3.06it/s]
Power Factorization: 74%	372/500 [02:04<00:40, 3.13it/s]
Power Factorization: 75%	373/500 [02:04<00:39, 3.23it/s]
Power Factorization: 75%	374/500 [02:04<00:38, 3.24it/s]
Power Factorization: 75%	375/500 [02:04<00:38, 3.24it/s]
Power Factorization: 75%	376/500 [02:05<00:38, 3.24it/s]
Power Factorization: 75%	377/500 [02:05<00:40, 3.04it/s]
Power Factorization: 76%	378/500 [02:05<00:40, 3.03it/s]
Power Factorization: 76%	379/500 [02:06<00:40, 2.99it/s]
Power Factorization: 76%	380/500 [02:06<00:40, 2.95it/s]
Power Factorization: 76%	381/500 [02:06<00:39, 3.01it/s]
Power Factorization: 76%	382/500 [02:07<00:39, 2.96it/s]
Power Factorization: 77%	383/500 [02:07<00:40, 2.89it/s]
Power Factorization: 77%	384/500 [02:08<00:40, 2.83it/s]
Power Factorization: 77%	385/500 [02:08<00:39, 2.88it/s]

Power Factorization: 77%	386/500 [02:08<00:39, 2.85it/s]
Power Factorization: 77%	387/500 [02:09<00:37, 3.02it/s]
Power Factorization: 78%	388/500 [02:09<00:37, 2.98it/s]
Power Factorization: 78%	389/500 [02:09<00:36, 3.05it/s]
Power Factorization: 78%	390/500 [02:09<00:35, 3.12it/s]
Power Factorization: 78%	391/500 [02:10<00:34, 3.11it/s]
Power Factorization: 78%	392/500 [02:10<00:35, 3.03it/s]
Power Factorization: 79%	393/500 [02:11<00:37, 2.89it/s]
Power Factorization: 79%	394/500 [02:11<00:35, 3.02it/s]
Power Factorization: 79%	395/500 [02:11<00:34, 3.06it/s]
Power Factorization: 79%	396/500 [02:11<00:32, 3.15it/s]
Power Factorization: 79%	397/500 [02:12<00:32, 3.18it/s]
Power Factorization: 80%	398/500 [02:12<00:35, 2.91it/s]
Power Factorization: 80%	399/500 [02:12<00:33, 2.98it/s]
Power Factorization: 80%	400/500 [02:13<00:34, 2.93it/s]
Power Factorization: 80%	401/500 [02:13<00:37, 2.64it/s]
Power Factorization: 80%	402/500 [02:14<00:36, 2.68it/s]
Power Factorization: 81%	403/500 [02:14<00:34, 2.79it/s]
Power Factorization: 81%	404/500 [02:14<00:34, 2.82it/s]
Power Factorization: 81%	405/500 [02:15<00:33, 2.82it/s]
Power Factorization: 81%	406/500 [02:15<00:31, 2.95it/s]
Power Factorization: 81%	407/500 [02:15<00:31, 2.99it/s]
Power Factorization: 82%	408/500 [02:16<00:29, 3.16it/s]
Power Factorization: 82%	409/500 [02:16<00:28, 3.20it/s]

Power Factorization: 82%	410/500 [02:16<00:29,	3.06it/s]
Power Factorization: 82%	411/500 [02:17<00:28,	3.11it/s]
Power Factorization: 82%	412/500 [02:17<00:28,	3.12it/s]
Power Factorization: 83%	413/500 [02:17<00:27,	3.11it/s]
Power Factorization: 83%	414/500 [02:18<00:27,	3.14it/s]
Power Factorization: 83%	415/500 [02:18<00:27,	3.13it/s]
Power Factorization: 83%	416/500 [02:18<00:29,	2.88it/s]
Power Factorization: 83%	417/500 [02:19<00:29,	2.79it/s]
Power Factorization: 84%	418/500 [02:19<00:29,	2.79it/s]
Power Factorization: 84%	419/500 [02:19<00:29,	2.77it/s]
Power Factorization: 84%	420/500 [02:20<00:28,	2.80it/s]
Power Factorization: 84%	421/500 [02:20<00:26,	2.93it/s]
Power Factorization: 84%	422/500 [02:20<00:26,	2.97it/s]
Power Factorization: 85%	423/500 [02:21<00:25,	3.05it/s]
Power Factorization: 85%	424/500 [02:21<00:25,	3.01it/s]
Power Factorization: 85%	425/500 [02:21<00:25,	3.00it/s]
Power Factorization: 85%	426/500 [02:22<00:24,	2.99it/s]
Power Factorization: 85%	427/500 [02:22<00:23,	3.09it/s]
Power Factorization: 86%	428/500 [02:22<00:23,	3.02it/s]
Power Factorization: 86%	429/500 [02:23<00:22,	3.10it/s]
Power Factorization: 86%	430/500 [02:23<00:22,	3.14it/s]
Power Factorization: 86%	431/500 [02:23<00:22,	3.12it/s]
Power Factorization: 86%	432/500 [02:24<00:22,	3.08it/s]
Power Factorization: 87%	433/500 [02:24<00:21,	3.19it/s]

Power Factorization: 87%	434/500 [02:24<00:21,	3.08it/s]
Power Factorization: 87%	435/500 [02:25<00:21,	3.06it/s]
Power Factorization: 87%	436/500 [02:25<00:20,	3.12it/s]
Power Factorization: 87%	437/500 [02:25<00:20,	3.09it/s]
Power Factorization: 88%	438/500 [02:26<00:20,	3.05it/s]
Power Factorization: 88%	439/500 [02:26<00:19,	3.06it/s]
Power Factorization: 88%	440/500 [02:26<00:19,	3.11it/s]
Power Factorization: 88%	441/500 [02:26<00:19,	3.08it/s]
Power Factorization: 88%	442/500 [02:27<00:19,	3.05it/s]
Power Factorization: 89%	443/500 [02:27<00:18,	3.05it/s]
Power Factorization: 89%	444/500 [02:27<00:18,	3.05it/s]
Power Factorization: 89%	445/500 [02:28<00:17,	3.12it/s]
Power Factorization: 89%	446/500 [02:28<00:17,	3.02it/s]
Power Factorization: 89%	447/500 [02:28<00:17,	3.07it/s]
Power Factorization: 90%	448/500 [02:29<00:17,	3.04it/s]
Power Factorization: 90%	449/500 [02:29<00:16,	3.01it/s]
Power Factorization: 90%	450/500 [02:29<00:16,	3.11it/s]
Power Factorization: 90%	451/500 [02:30<00:16,	3.05it/s]
Power Factorization: 90%	452/500 [02:30<00:15,	3.08it/s]
Power Factorization: 91%	453/500 [02:30<00:15,	3.11it/s]
Power Factorization: 91%	454/500 [02:31<00:15,	3.03it/s]
Power Factorization: 91%	455/500 [02:31<00:14,	3.02it/s]
Power Factorization: 91%	456/500 [02:31<00:14,	3.07it/s]
Power Factorization: 91%	457/500 [02:32<00:14,	3.01it/s]

Power Factorization: 92%	458/500 [02:32<00:14, 2.96it/s]
Power Factorization: 92%	459/500 [02:32<00:14, 2.86it/s]
Power Factorization: 92%	460/500 [02:33<00:13, 2.96it/s]
Power Factorization: 92%	461/500 [02:33<00:12, 3.07it/s]
Power Factorization: 92%	462/500 [02:33<00:12, 3.07it/s]
Power Factorization: 93%	463/500 [02:34<00:12, 3.06it/s]
Power Factorization: 93%	464/500 [02:34<00:11, 3.11it/s]
Power Factorization: 93%	465/500 [02:34<00:11, 3.01it/s]
Power Factorization: 93%	466/500 [02:35<00:12, 2.66it/s]
Power Factorization: 93%	467/500 [02:35<00:11, 2.81it/s]
Power Factorization: 94%	468/500 [02:36<00:11, 2.81it/s]
Power Factorization: 94%	469/500 [02:36<00:10, 2.92it/s]
Power Factorization: 94%	470/500 [02:36<00:10, 3.00it/s]
Power Factorization: 94%	471/500 [02:36<00:09, 3.13it/s]
Power Factorization: 94%	472/500 [02:37<00:08, 3.16it/s]
Power Factorization: 95%	473/500 [02:37<00:08, 3.06it/s]
Power Factorization: 95%	474/500 [02:37<00:08, 3.07it/s]
Power Factorization: 95%	475/500 [02:38<00:08, 3.06it/s]
Power Factorization: 95%	476/500 [02:38<00:07, 3.16it/s]
Power Factorization: 95%	477/500 [02:38<00:07, 3.11it/s]
Power Factorization: 96%	478/500 [02:39<00:07, 3.07it/s]
Power Factorization: 96%	479/500 [02:39<00:07, 2.97it/s]
Power Factorization: 96%	480/500 [02:39<00:06, 3.05it/s]
Power Factorization: 96%	481/500 [02:40<00:06, 3.13it/s]

Power Factorization: 96%	482/500 [02:40<00:05, 3.20it/s]
Power Factorization: 97%	483/500 [02:40<00:05, 3.08it/s]
Power Factorization: 97%	484/500 [02:41<00:05, 3.12it/s]
Power Factorization: 97%	485/500 [02:41<00:04, 3.06it/s]
Power Factorization: 97%	486/500 [02:41<00:04, 3.02it/s]
Power Factorization: 97%	487/500 [02:42<00:04, 2.92it/s]
Power Factorization: 98%	488/500 [02:42<00:04, 2.85it/s]
Power Factorization: 98%	489/500 [02:43<00:04, 2.60it/s]
Power Factorization: 98%	490/500 [02:43<00:03, 2.60it/s]
Power Factorization: 98%	491/500 [02:43<00:03, 2.46it/s]
Power Factorization: 98%	492/500 [02:44<00:03, 2.52it/s]
Power Factorization: 99%	493/500 [02:44<00:02, 2.58it/s]
Power Factorization: 99%	494/500 [02:44<00:02, 2.63it/s]
Power Factorization: 99%	495/500 [02:45<00:01, 2.74it/s]
Power Factorization: 99%	496/500 [02:45<00:01, 2.77it/s]
Power Factorization: 99%	497/500 [02:46<00:01, 2.58it/s]
Power Factorization: 100%	498/500 [02:46<00:00, 2.58it/s]
Power Factorization: 100%	499/500 [02:46<00:00, 2.65it/s]
Power Factorization: 100%	500/500 [02:47<00:00, 2.99it/s]
Cross Validation: 40%	2/5 [05:42<08:31, 170.44s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:28, 2.40it/s]
Power Factorization: 0%	2/500 [00:00<03:17, 2.52it/s]
Power Factorization: 1%	3/500 [00:01<03:25, 2.42it/s]

Power Factorization:	1%	4/500 [00:01<03:35, 2.30it/s]
Power Factorization:	1%	5/500 [00:02<03:34, 2.31it/s]
Power Factorization:	1%	6/500 [00:02<03:17, 2.50it/s]
Power Factorization:	1%	7/500 [00:02<03:12, 2.56it/s]
Power Factorization:	2%	8/500 [00:03<03:10, 2.58it/s]
Power Factorization:	2%	9/500 [00:03<03:10, 2.58it/s]
Power Factorization:	2%	10/500 [00:03<03:09, 2.59it/s]
Power Factorization:	2%	11/500 [00:04<03:02, 2.68it/s]
Power Factorization:	2%	12/500 [00:04<03:08, 2.59it/s]
Power Factorization:	3%	13/500 [00:05<03:09, 2.57it/s]
Power Factorization:	3%	14/500 [00:05<03:00, 2.69it/s]
Power Factorization:	3%	15/500 [00:05<03:03, 2.65it/s]
Power Factorization:	3%	16/500 [00:06<03:05, 2.61it/s]
Power Factorization:	3%	17/500 [00:06<02:48, 2.86it/s]
Power Factorization:	4%	18/500 [00:06<02:42, 2.97it/s]
Power Factorization:	4%	19/500 [00:07<02:43, 2.93it/s]
Power Factorization:	4%	20/500 [00:07<02:40, 2.99it/s]
Power Factorization:	4%	21/500 [00:07<02:39, 3.00it/s]
Power Factorization:	4%	22/500 [00:08<02:36, 3.06it/s]
Power Factorization:	5%	23/500 [00:08<02:35, 3.07it/s]
Power Factorization:	5%	24/500 [00:08<02:47, 2.84it/s]
Power Factorization:	5%	25/500 [00:09<02:50, 2.79it/s]
Power Factorization:	5%	26/500 [00:09<02:42, 2.91it/s]
Power Factorization:	5%	27/500 [00:09<02:43, 2.89it/s]

Power Factorization:	6%	28/500 [00:10<02:37, 3.00it/s]
Power Factorization:	6%	29/500 [00:10<02:38, 2.97it/s]
Power Factorization:	6%	30/500 [00:10<02:46, 2.82it/s]
Power Factorization:	6%	31/500 [00:11<02:40, 2.92it/s]
Power Factorization:	6%	32/500 [00:11<02:37, 2.97it/s]
Power Factorization:	7%	33/500 [00:11<02:38, 2.95it/s]
Power Factorization:	7%	34/500 [00:12<02:35, 2.99it/s]
Power Factorization:	7%	35/500 [00:12<02:37, 2.94it/s]
Power Factorization:	7%	36/500 [00:12<02:34, 3.01it/s]
Power Factorization:	7%	37/500 [00:13<02:35, 2.97it/s]
Power Factorization:	8%	38/500 [00:13<02:35, 2.96it/s]
Power Factorization:	8%	39/500 [00:13<02:33, 3.00it/s]
Power Factorization:	8%	40/500 [00:14<02:28, 3.10it/s]
Power Factorization:	8%	41/500 [00:14<02:29, 3.08it/s]
Power Factorization:	8%	42/500 [00:14<02:32, 3.00it/s]
Power Factorization:	9%	43/500 [00:15<02:52, 2.65it/s]
Power Factorization:	9%	44/500 [00:15<02:48, 2.71it/s]
Power Factorization:	9%	45/500 [00:16<02:42, 2.79it/s]
Power Factorization:	9%	46/500 [00:16<02:44, 2.76it/s]
Power Factorization:	9%	47/500 [00:16<02:36, 2.90it/s]
Power Factorization:	10%	48/500 [00:17<02:37, 2.88it/s]
Power Factorization:	10%	49/500 [00:17<02:29, 3.01it/s]
Power Factorization:	10%	50/500 [00:17<02:23, 3.13it/s]
Power Factorization:	10%	51/500 [00:18<02:29, 3.00it/s]

Power Factorization: 10%	52/500 [00:18<02:33, 2.92it/s]
Power Factorization: 11%	53/500 [00:18<02:31, 2.95it/s]
Power Factorization: 11%	54/500 [00:19<02:32, 2.92it/s]
Power Factorization: 11%	55/500 [00:19<02:33, 2.89it/s]
Power Factorization: 11%	56/500 [00:19<02:34, 2.87it/s]
Power Factorization: 11%	57/500 [00:20<02:35, 2.85it/s]
Power Factorization: 12%	58/500 [00:20<02:30, 2.93it/s]
Power Factorization: 12%	59/500 [00:20<02:29, 2.94it/s]
Power Factorization: 12%	60/500 [00:21<02:30, 2.93it/s]
Power Factorization: 12%	61/500 [00:21<02:39, 2.76it/s]
Power Factorization: 12%	62/500 [00:21<02:33, 2.85it/s]
Power Factorization: 13%	63/500 [00:22<02:34, 2.82it/s]
Power Factorization: 13%	64/500 [00:22<02:33, 2.84it/s]
Power Factorization: 13%	65/500 [00:22<02:27, 2.94it/s]
Power Factorization: 13%	66/500 [00:23<02:35, 2.79it/s]
Power Factorization: 13%	67/500 [00:23<02:44, 2.63it/s]
Power Factorization: 14%	68/500 [00:24<02:41, 2.68it/s]
Power Factorization: 14%	69/500 [00:24<02:29, 2.89it/s]
Power Factorization: 14%	70/500 [00:24<02:24, 2.98it/s]
Power Factorization: 14%	71/500 [00:25<02:26, 2.93it/s]
Power Factorization: 14%	72/500 [00:25<02:28, 2.88it/s]
Power Factorization: 15%	73/500 [00:25<02:23, 2.97it/s]
Power Factorization: 15%	74/500 [00:26<02:17, 3.09it/s]
Power Factorization: 15%	75/500 [00:26<02:16, 3.11it/s]

Power Factorization: 15%	76/500 [00:26<02:12, 3.20it/s]
Power Factorization: 15%	77/500 [00:27<02:18, 3.06it/s]
Power Factorization: 16%	78/500 [00:27<02:20, 3.01it/s]
Power Factorization: 16%	79/500 [00:27<02:27, 2.85it/s]
Power Factorization: 16%	80/500 [00:28<02:21, 2.97it/s]
Power Factorization: 16%	81/500 [00:28<02:14, 3.12it/s]
Power Factorization: 16%	82/500 [00:28<02:12, 3.14it/s]
Power Factorization: 17%	83/500 [00:28<02:13, 3.12it/s]
Power Factorization: 17%	84/500 [00:29<02:17, 3.03it/s]
Power Factorization: 17%	85/500 [00:29<02:16, 3.05it/s]
Power Factorization: 17%	86/500 [00:29<02:16, 3.04it/s]
Power Factorization: 17%	87/500 [00:30<02:20, 2.94it/s]
Power Factorization: 18%	88/500 [00:30<02:19, 2.96it/s]
Power Factorization: 18%	89/500 [00:30<02:14, 3.05it/s]
Power Factorization: 18%	90/500 [00:31<02:20, 2.92it/s]
Power Factorization: 18%	91/500 [00:31<02:15, 3.02it/s]
Power Factorization: 18%	92/500 [00:31<02:13, 3.06it/s]
Power Factorization: 19%	93/500 [00:32<02:10, 3.11it/s]
Power Factorization: 19%	94/500 [00:32<02:15, 3.01it/s]
Power Factorization: 19%	95/500 [00:32<02:14, 3.01it/s]
Power Factorization: 19%	96/500 [00:33<02:15, 2.98it/s]
Power Factorization: 19%	97/500 [00:33<02:11, 3.06it/s]
Power Factorization: 20%	98/500 [00:33<02:11, 3.06it/s]
Power Factorization: 20%	99/500 [00:34<02:09, 3.10it/s]

Power Factorization: 20%	100/500 [00:34<02:12, 3.01it/s]
Power Factorization: 20%	101/500 [00:34<02:12, 3.01it/s]
Power Factorization: 20%	102/500 [00:35<02:11, 3.02it/s]
Power Factorization: 21%	103/500 [00:35<02:14, 2.94it/s]
Power Factorization: 21%	104/500 [00:35<02:10, 3.04it/s]
Power Factorization: 21%	105/500 [00:36<02:10, 3.04it/s]
Power Factorization: 21%	106/500 [00:36<02:18, 2.84it/s]
Power Factorization: 21%	107/500 [00:37<02:21, 2.79it/s]
Power Factorization: 22%	108/500 [00:37<02:17, 2.85it/s]
Power Factorization: 22%	109/500 [00:37<02:17, 2.84it/s]
Power Factorization: 22%	110/500 [00:38<02:19, 2.79it/s]
Power Factorization: 22%	111/500 [00:38<02:20, 2.76it/s]
Power Factorization: 22%	112/500 [00:38<02:15, 2.87it/s]
Power Factorization: 23%	113/500 [00:39<02:13, 2.91it/s]
Power Factorization: 23%	114/500 [00:39<02:12, 2.91it/s]
Power Factorization: 23%	115/500 [00:39<02:15, 2.83it/s]
Power Factorization: 23%	116/500 [00:40<02:15, 2.84it/s]
Power Factorization: 23%	117/500 [00:40<02:15, 2.82it/s]
Power Factorization: 24%	118/500 [00:40<02:09, 2.94it/s]
Power Factorization: 24%	119/500 [00:41<02:05, 3.03it/s]
Power Factorization: 24%	120/500 [00:41<02:13, 2.85it/s]
Power Factorization: 24%	121/500 [00:41<02:09, 2.94it/s]
Power Factorization: 24%	122/500 [00:42<02:12, 2.86it/s]
Power Factorization: 25%	123/500 [00:42<02:12, 2.84it/s]

Power Factorization: 25%	124/500 [00:42<02:08, 2.92it/s]
Power Factorization: 25%	125/500 [00:43<02:16, 2.74it/s]
Power Factorization: 25%	126/500 [00:43<02:13, 2.80it/s]
Power Factorization: 25%	127/500 [00:44<02:09, 2.87it/s]
Power Factorization: 26%	128/500 [00:44<02:06, 2.94it/s]
Power Factorization: 26%	129/500 [00:44<02:09, 2.87it/s]
Power Factorization: 26%	130/500 [00:45<02:08, 2.88it/s]
Power Factorization: 26%	131/500 [00:45<02:05, 2.93it/s]
Power Factorization: 26%	132/500 [00:45<02:01, 3.03it/s]
Power Factorization: 27%	133/500 [00:46<02:00, 3.03it/s]
Power Factorization: 27%	134/500 [00:46<02:02, 2.98it/s]
Power Factorization: 27%	135/500 [00:46<01:57, 3.10it/s]
Power Factorization: 27%	136/500 [00:46<01:56, 3.14it/s]
Power Factorization: 27%	137/500 [00:47<01:58, 3.06it/s]
Power Factorization: 28%	138/500 [00:47<01:57, 3.09it/s]
Power Factorization: 28%	139/500 [00:47<02:00, 3.01it/s]
Power Factorization: 28%	140/500 [00:48<01:55, 3.12it/s]
Power Factorization: 28%	141/500 [00:48<01:58, 3.02it/s]
Power Factorization: 28%	142/500 [00:48<01:57, 3.04it/s]
Power Factorization: 29%	143/500 [00:49<01:57, 3.04it/s]
Power Factorization: 29%	144/500 [00:49<01:59, 2.98it/s]
Power Factorization: 29%	145/500 [00:49<01:55, 3.08it/s]
Power Factorization: 29%	146/500 [00:50<01:55, 3.06it/s]
Power Factorization: 29%	147/500 [00:50<01:53, 3.12it/s]

Power Factorization: 30%	148/500 [00:50<01:52, 3.12it/s]
Power Factorization: 30%	149/500 [00:51<01:50, 3.19it/s]
Power Factorization: 30%	150/500 [00:51<01:52, 3.10it/s]
Power Factorization: 30%	151/500 [00:51<01:57, 2.98it/s]
Power Factorization: 30%	152/500 [00:52<01:54, 3.03it/s]
Power Factorization: 31%	153/500 [00:52<01:58, 2.93it/s]
Power Factorization: 31%	154/500 [00:52<02:01, 2.85it/s]
Power Factorization: 31%	155/500 [00:53<01:59, 2.88it/s]
Power Factorization: 31%	156/500 [00:53<02:05, 2.74it/s]
Power Factorization: 31%	157/500 [00:54<02:03, 2.78it/s]
Power Factorization: 32%	158/500 [00:54<02:03, 2.77it/s]
Power Factorization: 32%	159/500 [00:54<02:00, 2.83it/s]
Power Factorization: 32%	160/500 [00:55<01:57, 2.91it/s]
Power Factorization: 32%	161/500 [00:55<01:58, 2.87it/s]
Power Factorization: 32%	162/500 [00:55<01:57, 2.89it/s]
Power Factorization: 33%	163/500 [00:56<02:00, 2.81it/s]
Power Factorization: 33%	164/500 [00:56<02:00, 2.80it/s]
Power Factorization: 33%	165/500 [00:56<01:58, 2.83it/s]
Power Factorization: 33%	166/500 [00:57<01:57, 2.84it/s]
Power Factorization: 33%	167/500 [00:57<01:59, 2.79it/s]
Power Factorization: 34%	168/500 [00:57<02:02, 2.71it/s]
Power Factorization: 34%	169/500 [00:58<01:56, 2.84it/s]
Power Factorization: 34%	170/500 [00:58<01:53, 2.92it/s]
Power Factorization: 34%	171/500 [00:59<01:56, 2.83it/s]

Power Factorization: 34%	172/500 [00:59<01:56, 2.82it/s]
Power Factorization: 35%	173/500 [00:59<01:57, 2.78it/s]
Power Factorization: 35%	174/500 [01:00<01:58, 2.74it/s]
Power Factorization: 35%	175/500 [01:00<01:58, 2.75it/s]
Power Factorization: 35%	176/500 [01:00<01:57, 2.77it/s]
Power Factorization: 35%	177/500 [01:01<01:55, 2.79it/s]
Power Factorization: 36%	178/500 [01:01<01:53, 2.84it/s]
Power Factorization: 36%	179/500 [01:01<01:54, 2.80it/s]
Power Factorization: 36%	180/500 [01:02<01:50, 2.90it/s]
Power Factorization: 36%	181/500 [01:02<01:50, 2.89it/s]
Power Factorization: 36%	182/500 [01:02<01:47, 2.95it/s]
Power Factorization: 37%	183/500 [01:03<01:46, 2.99it/s]
Power Factorization: 37%	184/500 [01:03<01:44, 3.02it/s]
Power Factorization: 37%	185/500 [01:03<01:51, 2.83it/s]
Power Factorization: 37%	186/500 [01:04<01:48, 2.90it/s]
Power Factorization: 37%	187/500 [01:04<01:47, 2.92it/s]
Power Factorization: 38%	188/500 [01:04<01:51, 2.79it/s]
Power Factorization: 38%	189/500 [01:05<01:51, 2.80it/s]
Power Factorization: 38%	190/500 [01:05<01:50, 2.81it/s]
Power Factorization: 38%	191/500 [01:06<01:45, 2.92it/s]
Power Factorization: 38%	192/500 [01:06<01:46, 2.88it/s]
Power Factorization: 39%	193/500 [01:06<01:45, 2.90it/s]
Power Factorization: 39%	194/500 [01:07<01:44, 2.93it/s]
Power Factorization: 39%	195/500 [01:07<01:40, 3.02it/s]

Power Factorization: 39%	196/500 [01:07<01:39, 3.06it/s]
Power Factorization: 39%	197/500 [01:08<01:41, 2.99it/s]
Power Factorization: 40%	198/500 [01:08<01:41, 2.97it/s]
Power Factorization: 40%	199/500 [01:08<01:38, 3.04it/s]
Power Factorization: 40%	200/500 [01:08<01:38, 3.03it/s]
Power Factorization: 40%	201/500 [01:09<01:40, 2.97it/s]
Power Factorization: 40%	202/500 [01:09<01:36, 3.10it/s]
Power Factorization: 41%	203/500 [01:09<01:39, 2.98it/s]
Power Factorization: 41%	204/500 [01:10<01:42, 2.89it/s]
Power Factorization: 41%	205/500 [01:10<01:42, 2.89it/s]
Power Factorization: 41%	206/500 [01:11<01:41, 2.89it/s]
Power Factorization: 41%	207/500 [01:11<01:41, 2.90it/s]
Power Factorization: 42%	208/500 [01:11<01:37, 3.00it/s]
Power Factorization: 42%	209/500 [01:12<01:37, 2.98it/s]
Power Factorization: 42%	210/500 [01:12<01:39, 2.92it/s]
Power Factorization: 42%	211/500 [01:12<01:36, 3.01it/s]
Power Factorization: 42%	212/500 [01:13<01:36, 2.97it/s]
Power Factorization: 43%	213/500 [01:13<01:36, 2.98it/s]
Power Factorization: 43%	214/500 [01:13<01:31, 3.12it/s]
Power Factorization: 43%	215/500 [01:14<01:31, 3.12it/s]
Power Factorization: 43%	216/500 [01:14<01:30, 3.15it/s]
Power Factorization: 43%	217/500 [01:14<01:31, 3.11it/s]
Power Factorization: 44%	218/500 [01:14<01:33, 3.03it/s]
Power Factorization: 44%	219/500 [01:15<01:43, 2.71it/s]

Power Factorization: 44%	220/500 [01:15<01:42, 2.73it/s]
Power Factorization: 44%	221/500 [01:16<01:38, 2.83it/s]
Power Factorization: 44%	222/500 [01:16<01:40, 2.78it/s]
Power Factorization: 45%	223/500 [01:16<01:37, 2.84it/s]
Power Factorization: 45%	224/500 [01:17<01:36, 2.87it/s]
Power Factorization: 45%	225/500 [01:17<01:33, 2.95it/s]
Power Factorization: 45%	226/500 [01:17<01:37, 2.80it/s]
Power Factorization: 45%	227/500 [01:18<01:32, 2.94it/s]
Power Factorization: 46%	228/500 [01:18<01:35, 2.84it/s]
Power Factorization: 46%	229/500 [01:18<01:35, 2.84it/s]
Power Factorization: 46%	230/500 [01:19<01:34, 2.85it/s]
Power Factorization: 46%	231/500 [01:19<01:33, 2.86it/s]
Power Factorization: 46%	232/500 [01:19<01:33, 2.86it/s]
Power Factorization: 47%	233/500 [01:20<01:30, 2.96it/s]
Power Factorization: 47%	234/500 [01:20<01:32, 2.88it/s]
Power Factorization: 47%	235/500 [01:21<01:34, 2.79it/s]
Power Factorization: 47%	236/500 [01:21<01:33, 2.81it/s]
Power Factorization: 47%	237/500 [01:21<01:29, 2.93it/s]
Power Factorization: 48%	238/500 [01:22<01:26, 3.03it/s]
Power Factorization: 48%	239/500 [01:22<01:26, 3.01it/s]
Power Factorization: 48%	240/500 [01:22<01:25, 3.03it/s]
Power Factorization: 48%	241/500 [01:22<01:21, 3.18it/s]
Power Factorization: 48%	242/500 [01:23<01:16, 3.37it/s]
Power Factorization: 49%	243/500 [01:23<01:19, 3.24it/s]

Power Factorization: 49%	244/500 [01:23<01:23, 3.08it/s]
Power Factorization: 49%	245/500 [01:24<01:22, 3.07it/s]
Power Factorization: 49%	246/500 [01:24<01:21, 3.13it/s]
Power Factorization: 49%	247/500 [01:24<01:22, 3.07it/s]
Power Factorization: 50%	248/500 [01:25<01:32, 2.71it/s]
Power Factorization: 50%	249/500 [01:25<01:32, 2.71it/s]
Power Factorization: 50%	250/500 [01:26<01:32, 2.69it/s]
Power Factorization: 50%	251/500 [01:26<01:28, 2.81it/s]
Power Factorization: 50%	252/500 [01:26<01:28, 2.79it/s]
Power Factorization: 51%	253/500 [01:27<01:28, 2.80it/s]
Power Factorization: 51%	254/500 [01:27<01:24, 2.92it/s]
Power Factorization: 51%	255/500 [01:27<01:26, 2.83it/s]
Power Factorization: 51%	256/500 [01:28<01:26, 2.83it/s]
Power Factorization: 51%	257/500 [01:28<01:24, 2.86it/s]
Power Factorization: 52%	258/500 [01:28<01:22, 2.92it/s]
Power Factorization: 52%	259/500 [01:29<01:20, 2.99it/s]
Power Factorization: 52%	260/500 [01:29<01:22, 2.90it/s]
Power Factorization: 52%	261/500 [01:29<01:21, 2.93it/s]
Power Factorization: 52%	262/500 [01:30<01:17, 3.07it/s]
Power Factorization: 53%	263/500 [01:30<01:16, 3.12it/s]
Power Factorization: 53%	264/500 [01:30<01:20, 2.94it/s]
Power Factorization: 53%	265/500 [01:31<01:23, 2.81it/s]
Power Factorization: 53%	266/500 [01:31<01:25, 2.75it/s]
Power Factorization: 53%	267/500 [01:31<01:21, 2.87it/s]

Power Factorization: 54%	268/500 [01:32<01:19, 2.90it/s]
Power Factorization: 54%	269/500 [01:32<01:18, 2.95it/s]
Power Factorization: 54%	270/500 [01:32<01:18, 2.95it/s]
Power Factorization: 54%	271/500 [01:33<01:22, 2.78it/s]
Power Factorization: 54%	272/500 [01:33<01:22, 2.77it/s]
Power Factorization: 55%	273/500 [01:34<01:23, 2.72it/s]
Power Factorization: 55%	274/500 [01:34<01:26, 2.62it/s]
Power Factorization: 55%	275/500 [01:34<01:24, 2.65it/s]
Power Factorization: 55%	276/500 [01:35<01:19, 2.83it/s]
Power Factorization: 55%	277/500 [01:35<01:20, 2.78it/s]
Power Factorization: 56%	278/500 [01:35<01:21, 2.73it/s]
Power Factorization: 56%	279/500 [01:36<01:18, 2.81it/s]
Power Factorization: 56%	280/500 [01:36<01:16, 2.87it/s]
Power Factorization: 56%	281/500 [01:37<01:21, 2.68it/s]
Power Factorization: 56%	282/500 [01:37<01:21, 2.68it/s]
Power Factorization: 57%	283/500 [01:37<01:19, 2.72it/s]
Power Factorization: 57%	284/500 [01:38<01:14, 2.89it/s]
Power Factorization: 57%	285/500 [01:38<01:12, 2.95it/s]
Power Factorization: 57%	286/500 [01:38<01:10, 3.04it/s]
Power Factorization: 57%	287/500 [01:39<01:16, 2.77it/s]
Power Factorization: 58%	288/500 [01:39<01:14, 2.83it/s]
Power Factorization: 58%	289/500 [01:39<01:14, 2.82it/s]
Power Factorization: 58%	290/500 [01:40<01:11, 2.92it/s]
Power Factorization: 58%	291/500 [01:40<01:13, 2.86it/s]

Power Factorization: 58%	292/500 [01:40<01:15, 2.74it/s]
Power Factorization: 59%	293/500 [01:41<01:15, 2.73it/s]
Power Factorization: 59%	294/500 [01:41<01:14, 2.78it/s]
Power Factorization: 59%	295/500 [01:41<01:14, 2.76it/s]
Power Factorization: 59%	296/500 [01:42<01:15, 2.69it/s]
Power Factorization: 59%	297/500 [01:42<01:12, 2.78it/s]
Power Factorization: 60%	298/500 [01:43<01:12, 2.80it/s]
Power Factorization: 60%	299/500 [01:43<01:12, 2.78it/s]
Power Factorization: 60%	300/500 [01:43<01:10, 2.82it/s]
Power Factorization: 60%	301/500 [01:44<01:08, 2.91it/s]
Power Factorization: 60%	302/500 [01:44<01:07, 2.94it/s]
Power Factorization: 61%	303/500 [01:44<01:03, 3.10it/s]
Power Factorization: 61%	304/500 [01:45<01:06, 2.96it/s]
Power Factorization: 61%	305/500 [01:45<01:05, 3.00it/s]
Power Factorization: 61%	306/500 [01:45<01:07, 2.88it/s]
Power Factorization: 61%	307/500 [01:46<01:08, 2.80it/s]
Power Factorization: 62%	308/500 [01:46<01:08, 2.82it/s]
Power Factorization: 62%	309/500 [01:46<01:06, 2.86it/s]
Power Factorization: 62%	310/500 [01:47<01:06, 2.85it/s]
Power Factorization: 62%	311/500 [01:47<01:04, 2.94it/s]
Power Factorization: 62%	312/500 [01:47<01:04, 2.94it/s]
Power Factorization: 63%	313/500 [01:48<01:02, 2.97it/s]
Power Factorization: 63%	314/500 [01:48<01:03, 2.93it/s]
Power Factorization: 63%	315/500 [01:48<01:03, 2.93it/s]

Power Factorization: 63%	316/500 [01:49<01:03, 2.88it/s]
Power Factorization: 63%	317/500 [01:49<01:02, 2.91it/s]
Power Factorization: 64%	318/500 [01:49<01:03, 2.85it/s]
Power Factorization: 64%	319/500 [01:50<01:00, 2.97it/s]
Power Factorization: 64%	320/500 [01:50<01:00, 2.96it/s]
Power Factorization: 64%	321/500 [01:50<01:00, 2.95it/s]
Power Factorization: 64%	322/500 [01:51<00:58, 3.04it/s]
Power Factorization: 65%	323/500 [01:51<00:59, 3.00it/s]
Power Factorization: 65%	324/500 [01:51<00:57, 3.05it/s]
Power Factorization: 65%	325/500 [01:52<01:00, 2.87it/s]
Power Factorization: 65%	326/500 [01:52<00:58, 3.00it/s]
Power Factorization: 65%	327/500 [01:52<00:58, 2.94it/s]
Power Factorization: 66%	328/500 [01:53<00:58, 2.96it/s]
Power Factorization: 66%	329/500 [01:53<00:58, 2.95it/s]
Power Factorization: 66%	330/500 [01:53<00:59, 2.88it/s]
Power Factorization: 66%	331/500 [01:54<00:56, 2.97it/s]
Power Factorization: 66%	332/500 [01:54<00:55, 3.04it/s]
Power Factorization: 67%	333/500 [01:54<00:53, 3.10it/s]
Power Factorization: 67%	334/500 [01:55<00:54, 3.03it/s]
Power Factorization: 67%	335/500 [01:55<00:55, 2.95it/s]
Power Factorization: 67%	336/500 [01:55<00:54, 3.02it/s]
Power Factorization: 67%	337/500 [01:56<00:52, 3.08it/s]
Power Factorization: 68%	338/500 [01:56<00:51, 3.15it/s]
Power Factorization: 68%	339/500 [01:56<00:50, 3.21it/s]

Power Factorization: 68%	340/500 [01:57<00:51, 3.11it/s]
Power Factorization: 68%	341/500 [01:57<00:50, 3.17it/s]
Power Factorization: 68%	342/500 [01:57<00:50, 3.12it/s]
Power Factorization: 69%	343/500 [01:58<00:49, 3.16it/s]
Power Factorization: 69%	344/500 [01:58<00:52, 3.00it/s]
Power Factorization: 69%	345/500 [01:58<00:57, 2.70it/s]
Power Factorization: 69%	346/500 [01:59<00:53, 2.86it/s]
Power Factorization: 69%	347/500 [01:59<00:53, 2.87it/s]
Power Factorization: 70%	348/500 [01:59<00:50, 2.98it/s]
Power Factorization: 70%	349/500 [02:00<00:50, 2.96it/s]
Power Factorization: 70%	350/500 [02:00<00:50, 2.96it/s]
Power Factorization: 70%	351/500 [02:00<00:50, 2.95it/s]
Power Factorization: 70%	352/500 [02:01<00:51, 2.87it/s]
Power Factorization: 71%	353/500 [02:01<00:51, 2.86it/s]
Power Factorization: 71%	354/500 [02:01<00:50, 2.90it/s]
Power Factorization: 71%	355/500 [02:02<00:48, 2.98it/s]
Power Factorization: 71%	356/500 [02:02<00:49, 2.91it/s]
Power Factorization: 71%	357/500 [02:02<00:49, 2.89it/s]
Power Factorization: 72%	358/500 [02:03<00:50, 2.82it/s]
Power Factorization: 72%	359/500 [02:03<00:47, 2.99it/s]
Power Factorization: 72%	360/500 [02:04<00:49, 2.85it/s]
Power Factorization: 72%	361/500 [02:04<00:47, 2.94it/s]
Power Factorization: 72%	362/500 [02:04<00:45, 3.01it/s]
Power Factorization: 73%	363/500 [02:04<00:43, 3.14it/s]

Power Factorization: 73%	364/500 [02:05<00:43,	3.12it/s]
Power Factorization: 73%	365/500 [02:05<00:44,	3.03it/s]
Power Factorization: 73%	366/500 [02:06<00:45,	2.92it/s]
Power Factorization: 73%	367/500 [02:06<00:46,	2.83it/s]
Power Factorization: 74%	368/500 [02:06<00:46,	2.83it/s]
Power Factorization: 74%	369/500 [02:07<00:45,	2.89it/s]
Power Factorization: 74%	370/500 [02:07<00:43,	2.99it/s]
Power Factorization: 74%	371/500 [02:07<00:43,	2.95it/s]
Power Factorization: 74%	372/500 [02:08<00:43,	2.95it/s]
Power Factorization: 75%	373/500 [02:08<00:45,	2.79it/s]
Power Factorization: 75%	374/500 [02:08<00:44,	2.86it/s]
Power Factorization: 75%	375/500 [02:09<00:42,	2.97it/s]
Power Factorization: 75%	376/500 [02:09<00:41,	2.97it/s]
Power Factorization: 75%	377/500 [02:09<00:40,	3.01it/s]
Power Factorization: 76%	378/500 [02:10<00:39,	3.08it/s]
Power Factorization: 76%	379/500 [02:10<00:38,	3.16it/s]
Power Factorization: 76%	380/500 [02:10<00:37,	3.17it/s]
Power Factorization: 76%	381/500 [02:11<00:39,	2.99it/s]
Power Factorization: 76%	382/500 [02:11<00:39,	2.99it/s]
Power Factorization: 77%	383/500 [02:11<00:39,	2.98it/s]
Power Factorization: 77%	384/500 [02:12<00:37,	3.07it/s]
Power Factorization: 77%	385/500 [02:12<00:37,	3.05it/s]
Power Factorization: 77%	386/500 [02:12<00:37,	3.07it/s]
Power Factorization: 77%	387/500 [02:13<00:36,	3.07it/s]

Power Factorization: 78%	388/500 [02:13<00:35,	3.13it/s]
Power Factorization: 78%	389/500 [02:13<00:36,	3.01it/s]
Power Factorization: 78%	390/500 [02:14<00:38,	2.84it/s]
Power Factorization: 78%	391/500 [02:14<00:37,	2.94it/s]
Power Factorization: 78%	392/500 [02:14<00:37,	2.87it/s]
Power Factorization: 79%	393/500 [02:15<00:35,	2.98it/s]
Power Factorization: 79%	394/500 [02:15<00:34,	3.10it/s]
Power Factorization: 79%	395/500 [02:15<00:33,	3.16it/s]
Power Factorization: 79%	396/500 [02:16<00:34,	3.01it/s]
Power Factorization: 79%	397/500 [02:16<00:34,	2.95it/s]
Power Factorization: 80%	398/500 [02:16<00:33,	3.04it/s]
Power Factorization: 80%	399/500 [02:17<00:33,	3.03it/s]
Power Factorization: 80%	400/500 [02:17<00:31,	3.20it/s]
Power Factorization: 80%	401/500 [02:17<00:31,	3.17it/s]
Power Factorization: 80%	402/500 [02:17<00:31,	3.08it/s]
Power Factorization: 81%	403/500 [02:18<00:31,	3.12it/s]
Power Factorization: 81%	404/500 [02:18<00:31,	3.05it/s]
Power Factorization: 81%	405/500 [02:18<00:31,	3.01it/s]
Power Factorization: 81%	406/500 [02:19<00:30,	3.06it/s]
Power Factorization: 81%	407/500 [02:19<00:29,	3.20it/s]
Power Factorization: 82%	408/500 [02:19<00:28,	3.21it/s]
Power Factorization: 82%	409/500 [02:20<00:28,	3.15it/s]
Power Factorization: 82%	410/500 [02:20<00:29,	3.07it/s]
Power Factorization: 82%	411/500 [02:20<00:29,	3.05it/s]

Power Factorization: 82%	412/500 [02:21<00:28,	3.13it/s]
Power Factorization: 83%	413/500 [02:21<00:27,	3.13it/s]
Power Factorization: 83%	414/500 [02:21<00:27,	3.13it/s]
Power Factorization: 83%	415/500 [02:22<00:27,	3.06it/s]
Power Factorization: 83%	416/500 [02:22<00:27,	3.06it/s]
Power Factorization: 83%	417/500 [02:22<00:26,	3.09it/s]
Power Factorization: 84%	418/500 [02:23<00:27,	2.99it/s]
Power Factorization: 84%	419/500 [02:23<00:27,	2.99it/s]
Power Factorization: 84%	420/500 [02:23<00:26,	2.98it/s]
Power Factorization: 84%	421/500 [02:24<00:26,	3.01it/s]
Power Factorization: 84%	422/500 [02:24<00:26,	2.91it/s]
Power Factorization: 85%	423/500 [02:24<00:27,	2.83it/s]
Power Factorization: 85%	424/500 [02:25<00:26,	2.89it/s]
Power Factorization: 85%	425/500 [02:25<00:25,	2.88it/s]
Power Factorization: 85%	426/500 [02:25<00:26,	2.81it/s]
Power Factorization: 85%	427/500 [02:26<00:24,	2.99it/s]
Power Factorization: 86%	428/500 [02:26<00:23,	3.02it/s]
Power Factorization: 86%	429/500 [02:26<00:22,	3.10it/s]
Power Factorization: 86%	430/500 [02:27<00:25,	2.77it/s]
Power Factorization: 86%	431/500 [02:27<00:24,	2.87it/s]
Power Factorization: 86%	432/500 [02:27<00:23,	2.93it/s]
Power Factorization: 87%	433/500 [02:28<00:21,	3.10it/s]
Power Factorization: 87%	434/500 [02:28<00:21,	3.12it/s]
Power Factorization: 87%	435/500 [02:28<00:20,	3.10it/s]

Power Factorization: 87%	436/500 [02:29<00:20,	3.14it/s]
Power Factorization: 87%	437/500 [02:29<00:20,	3.11it/s]
Power Factorization: 88%	438/500 [02:29<00:20,	3.07it/s]
Power Factorization: 88%	439/500 [02:30<00:20,	3.00it/s]
Power Factorization: 88%	440/500 [02:30<00:20,	2.95it/s]
Power Factorization: 88%	441/500 [02:30<00:20,	2.88it/s]
Power Factorization: 88%	442/500 [02:31<00:19,	2.94it/s]
Power Factorization: 89%	443/500 [02:31<00:19,	2.95it/s]
Power Factorization: 89%	444/500 [02:31<00:18,	3.04it/s]
Power Factorization: 89%	445/500 [02:32<00:17,	3.15it/s]
Power Factorization: 89%	446/500 [02:32<00:16,	3.26it/s]
Power Factorization: 89%	447/500 [02:32<00:17,	3.09it/s]
Power Factorization: 90%	448/500 [02:33<00:17,	2.92it/s]
Power Factorization: 90%	449/500 [02:33<00:17,	2.83it/s]
Power Factorization: 90%	450/500 [02:33<00:17,	2.87it/s]
Power Factorization: 90%	451/500 [02:34<00:16,	2.89it/s]
Power Factorization: 90%	452/500 [02:34<00:16,	2.92it/s]
Power Factorization: 91%	453/500 [02:34<00:15,	2.98it/s]
Power Factorization: 91%	454/500 [02:35<00:16,	2.86it/s]
Power Factorization: 91%	455/500 [02:35<00:15,	2.89it/s]
Power Factorization: 91%	456/500 [02:36<00:15,	2.76it/s]
Power Factorization: 91%	457/500 [02:36<00:15,	2.85it/s]
Power Factorization: 92%	458/500 [02:36<00:14,	2.91it/s]
Power Factorization: 92%	459/500 [02:37<00:14,	2.80it/s]

Power Factorization: 92%	460/500 [02:37<00:14, 2.81it/s]
Power Factorization: 92%	461/500 [02:37<00:13, 2.86it/s]
Power Factorization: 92%	462/500 [02:38<00:12, 3.03it/s]
Power Factorization: 93%	463/500 [02:38<00:12, 3.03it/s]
Power Factorization: 93%	464/500 [02:38<00:11, 3.06it/s]
Power Factorization: 93%	465/500 [02:38<00:11, 3.15it/s]
Power Factorization: 93%	466/500 [02:39<00:10, 3.10it/s]
Power Factorization: 93%	467/500 [02:39<00:10, 3.01it/s]
Power Factorization: 94%	468/500 [02:40<00:10, 2.99it/s]
Power Factorization: 94%	469/500 [02:40<00:11, 2.79it/s]
Power Factorization: 94%	470/500 [02:40<00:11, 2.64it/s]
Power Factorization: 94%	471/500 [02:41<00:10, 2.81it/s]
Power Factorization: 94%	472/500 [02:41<00:09, 2.87it/s]
Power Factorization: 95%	473/500 [02:41<00:09, 2.94it/s]
Power Factorization: 95%	474/500 [02:42<00:08, 2.95it/s]
Power Factorization: 95%	475/500 [02:42<00:08, 3.05it/s]
Power Factorization: 95%	476/500 [02:42<00:07, 3.07it/s]
Power Factorization: 95%	477/500 [02:43<00:07, 3.13it/s]
Power Factorization: 96%	478/500 [02:43<00:07, 3.12it/s]
Power Factorization: 96%	479/500 [02:43<00:06, 3.16it/s]
Power Factorization: 96%	480/500 [02:44<00:06, 3.05it/s]
Power Factorization: 96%	481/500 [02:44<00:05, 3.17it/s]
Power Factorization: 96%	482/500 [02:44<00:05, 3.02it/s]
Power Factorization: 97%	483/500 [02:45<00:05, 2.95it/s]

Power Factorization: 97%| | 484/500 [02:45<00:05, 3.00it/s]

Power Factorization: 97%| | 485/500 [02:45<00:05, 2.89it/s]

Power Factorization: 97%| | 486/500 [02:46<00:04, 2.91it/s]

Power Factorization: 97%| | 487/500 [02:46<00:04, 3.08it/s]

Power Factorization: 98%| | 488/500 [02:46<00:03, 3.14it/s]

Power Factorization: 98%| | 489/500 [02:47<00:03, 3.16it/s]

Power Factorization: 98%| | 490/500 [02:47<00:03, 3.15it/s]

Power Factorization: 98%| | 491/500 [02:47<00:02, 3.14it/s]

Power Factorization: 98%| | 492/500 [02:48<00:02, 2.98it/s]

Power Factorization: 99%| | 493/500 [02:48<00:02, 2.95it/s]

Power Factorization: 99%| | 494/500 [02:48<00:01, 3.04it/s]

Power Factorization: 99%| | 495/500 [02:49<00:01, 3.04it/s]

Power Factorization: 99%| | 496/500 [02:49<00:01, 3.06it/s]

Power Factorization: 99%| | 497/500 [02:49<00:00, 3.13it/s]

Power Factorization: 100%| | 498/500 [02:50<00:00, 2.81it/s]

Power Factorization: 100%| | 499/500 [02:50<00:00, 2.85it/s]

Power Factorization: 100%| | 500/500 [02:50<00:00, 2.93it/s]

Cross Validation: 60%| | 3/5 [08:32<05:41, 170.61s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<03:05, 2.69it/s]

Power Factorization: 0%| | 2/500 [00:00<02:36, 3.17it/s]

Power Factorization: 1%| | 3/500 [00:00<02:30, 3.31it/s]

Power Factorization: 1%| | 4/500 [00:01<02:46, 2.98it/s]

Power Factorization: 1%| | 5/500 [00:01<02:46, 2.98it/s]

Power Factorization:	1%	6/500 [00:02<02:49, 2.92it/s]
Power Factorization:	1%	7/500 [00:02<02:48, 2.92it/s]
Power Factorization:	2%	8/500 [00:02<02:42, 3.03it/s]
Power Factorization:	2%	9/500 [00:02<02:43, 3.00it/s]
Power Factorization:	2%	10/500 [00:03<02:49, 2.89it/s]
Power Factorization:	2%	11/500 [00:03<02:44, 2.97it/s]
Power Factorization:	2%	12/500 [00:03<02:39, 3.05it/s]
Power Factorization:	3%	13/500 [00:04<02:34, 3.15it/s]
Power Factorization:	3%	14/500 [00:04<02:34, 3.15it/s]
Power Factorization:	3%	15/500 [00:04<02:33, 3.15it/s]
Power Factorization:	3%	16/500 [00:05<02:39, 3.04it/s]
Power Factorization:	3%	17/500 [00:05<02:41, 2.99it/s]
Power Factorization:	4%	18/500 [00:06<02:57, 2.71it/s]
Power Factorization:	4%	19/500 [00:06<03:04, 2.60it/s]
Power Factorization:	4%	20/500 [00:06<02:50, 2.82it/s]
Power Factorization:	4%	21/500 [00:07<02:45, 2.90it/s]
Power Factorization:	4%	22/500 [00:07<02:42, 2.95it/s]
Power Factorization:	5%	23/500 [00:07<02:46, 2.87it/s]
Power Factorization:	5%	24/500 [00:08<02:44, 2.89it/s]
Power Factorization:	5%	25/500 [00:08<02:45, 2.87it/s]
Power Factorization:	5%	26/500 [00:08<02:42, 2.92it/s]
Power Factorization:	5%	27/500 [00:09<02:38, 2.98it/s]
Power Factorization:	6%	28/500 [00:09<02:43, 2.88it/s]
Power Factorization:	6%	29/500 [00:09<02:37, 3.00it/s]

Power Factorization:	6%	30/500 [00:10<02:32,	3.07it/s]
Power Factorization:	6%	31/500 [00:10<02:29,	3.14it/s]
Power Factorization:	6%	32/500 [00:10<02:37,	2.97it/s]
Power Factorization:	7%	33/500 [00:11<02:34,	3.02it/s]
Power Factorization:	7%	34/500 [00:11<02:38,	2.95it/s]
Power Factorization:	7%	35/500 [00:11<02:39,	2.92it/s]
Power Factorization:	7%	36/500 [00:12<02:39,	2.91it/s]
Power Factorization:	7%	37/500 [00:12<02:33,	3.02it/s]
Power Factorization:	8%	38/500 [00:12<02:28,	3.11it/s]
Power Factorization:	8%	39/500 [00:13<02:25,	3.17it/s]
Power Factorization:	8%	40/500 [00:13<02:27,	3.11it/s]
Power Factorization:	8%	41/500 [00:13<02:50,	2.70it/s]
Power Factorization:	8%	42/500 [00:14<02:41,	2.83it/s]
Power Factorization:	9%	43/500 [00:14<02:32,	2.99it/s]
Power Factorization:	9%	44/500 [00:14<02:26,	3.12it/s]
Power Factorization:	9%	45/500 [00:15<02:25,	3.13it/s]
Power Factorization:	9%	46/500 [00:15<02:22,	3.18it/s]
Power Factorization:	9%	47/500 [00:15<02:25,	3.12it/s]
Power Factorization:	10%	48/500 [00:16<02:22,	3.16it/s]
Power Factorization:	10%	49/500 [00:16<02:27,	3.06it/s]
Power Factorization:	10%	50/500 [00:16<02:27,	3.05it/s]
Power Factorization:	10%	51/500 [00:17<02:29,	3.01it/s]
Power Factorization:	10%	52/500 [00:17<02:30,	2.97it/s]
Power Factorization:	11%	53/500 [00:17<02:24,	3.10it/s]

Power Factorization: 11%	54/500 [00:18<02:27, 3.01it/s]
Power Factorization: 11%	55/500 [00:18<02:27, 3.01it/s]
Power Factorization: 11%	56/500 [00:18<02:23, 3.09it/s]
Power Factorization: 11%	57/500 [00:19<02:23, 3.09it/s]
Power Factorization: 12%	58/500 [00:19<02:20, 3.15it/s]
Power Factorization: 12%	59/500 [00:19<02:18, 3.18it/s]
Power Factorization: 12%	60/500 [00:19<02:17, 3.20it/s]
Power Factorization: 12%	61/500 [00:20<02:20, 3.13it/s]
Power Factorization: 12%	62/500 [00:20<02:21, 3.10it/s]
Power Factorization: 13%	63/500 [00:20<02:21, 3.09it/s]
Power Factorization: 13%	64/500 [00:21<02:20, 3.11it/s]
Power Factorization: 13%	65/500 [00:21<02:23, 3.03it/s]
Power Factorization: 13%	66/500 [00:21<02:29, 2.91it/s]
Power Factorization: 13%	67/500 [00:22<02:21, 3.05it/s]
Power Factorization: 14%	68/500 [00:22<02:22, 3.03it/s]
Power Factorization: 14%	69/500 [00:23<02:30, 2.86it/s]
Power Factorization: 14%	70/500 [00:23<02:31, 2.84it/s]
Power Factorization: 14%	71/500 [00:23<02:19, 3.08it/s]
Power Factorization: 14%	72/500 [00:23<02:12, 3.22it/s]
Power Factorization: 15%	73/500 [00:24<02:22, 3.00it/s]
Power Factorization: 15%	74/500 [00:24<02:19, 3.04it/s]
Power Factorization: 15%	75/500 [00:24<02:18, 3.07it/s]
Power Factorization: 15%	76/500 [00:25<02:17, 3.09it/s]
Power Factorization: 15%	77/500 [00:25<02:15, 3.13it/s]

Power Factorization: 16%	78/500 [00:25<02:10, 3.24it/s]
Power Factorization: 16%	79/500 [00:26<02:10, 3.22it/s]
Power Factorization: 16%	80/500 [00:26<02:14, 3.13it/s]
Power Factorization: 16%	81/500 [00:26<02:22, 2.95it/s]
Power Factorization: 16%	82/500 [00:27<02:27, 2.83it/s]
Power Factorization: 17%	83/500 [00:27<02:28, 2.82it/s]
Power Factorization: 17%	84/500 [00:28<02:31, 2.75it/s]
Power Factorization: 17%	85/500 [00:28<02:25, 2.86it/s]
Power Factorization: 17%	86/500 [00:28<02:22, 2.90it/s]
Power Factorization: 17%	87/500 [00:29<02:23, 2.88it/s]
Power Factorization: 18%	88/500 [00:29<02:22, 2.90it/s]
Power Factorization: 18%	89/500 [00:29<02:18, 2.96it/s]
Power Factorization: 18%	90/500 [00:30<02:22, 2.87it/s]
Power Factorization: 18%	91/500 [00:30<02:21, 2.90it/s]
Power Factorization: 18%	92/500 [00:30<02:18, 2.94it/s]
Power Factorization: 19%	93/500 [00:31<02:17, 2.96it/s]
Power Factorization: 19%	94/500 [00:31<02:17, 2.94it/s]
Power Factorization: 19%	95/500 [00:31<02:13, 3.03it/s]
Power Factorization: 19%	96/500 [00:32<02:11, 3.07it/s]
Power Factorization: 19%	97/500 [00:32<02:10, 3.10it/s]
Power Factorization: 20%	98/500 [00:32<02:15, 2.97it/s]
Power Factorization: 20%	99/500 [00:33<02:13, 3.01it/s]
Power Factorization: 20%	100/500 [00:33<02:13, 3.00it/s]
Power Factorization: 20%	101/500 [00:33<02:16, 2.91it/s]

Power Factorization: 20%	102/500 [00:34<02:29, 2.66it/s]
Power Factorization: 21%	103/500 [00:34<02:23, 2.78it/s]
Power Factorization: 21%	104/500 [00:34<02:21, 2.79it/s]
Power Factorization: 21%	105/500 [00:35<02:28, 2.66it/s]
Power Factorization: 21%	106/500 [00:35<02:27, 2.66it/s]
Power Factorization: 21%	107/500 [00:35<02:25, 2.70it/s]
Power Factorization: 22%	108/500 [00:36<02:19, 2.80it/s]
Power Factorization: 22%	109/500 [00:36<02:15, 2.88it/s]
Power Factorization: 22%	110/500 [00:37<02:20, 2.78it/s]
Power Factorization: 22%	111/500 [00:37<02:17, 2.82it/s]
Power Factorization: 22%	112/500 [00:37<02:17, 2.81it/s]
Power Factorization: 23%	113/500 [00:38<02:11, 2.95it/s]
Power Factorization: 23%	114/500 [00:38<02:13, 2.90it/s]
Power Factorization: 23%	115/500 [00:38<02:12, 2.90it/s]
Power Factorization: 23%	116/500 [00:39<02:05, 3.07it/s]
Power Factorization: 23%	117/500 [00:39<02:12, 2.89it/s]
Power Factorization: 24%	118/500 [00:39<02:18, 2.77it/s]
Power Factorization: 24%	119/500 [00:40<02:13, 2.84it/s]
Power Factorization: 24%	120/500 [00:40<02:14, 2.82it/s]
Power Factorization: 24%	121/500 [00:40<02:12, 2.86it/s]
Power Factorization: 24%	122/500 [00:41<02:08, 2.95it/s]
Power Factorization: 25%	123/500 [00:41<02:08, 2.93it/s]
Power Factorization: 25%	124/500 [00:41<02:09, 2.90it/s]
Power Factorization: 25%	125/500 [00:42<02:07, 2.95it/s]

Power Factorization: 25%	126/500 [00:42<02:04, 3.01it/s]
Power Factorization: 25%	127/500 [00:42<02:09, 2.88it/s]
Power Factorization: 26%	128/500 [00:43<02:07, 2.92it/s]
Power Factorization: 26%	129/500 [00:43<02:03, 3.01it/s]
Power Factorization: 26%	130/500 [00:43<02:02, 3.03it/s]
Power Factorization: 26%	131/500 [00:44<01:59, 3.08it/s]
Power Factorization: 26%	132/500 [00:44<01:59, 3.09it/s]
Power Factorization: 27%	133/500 [00:44<02:02, 3.01it/s]
Power Factorization: 27%	134/500 [00:45<02:02, 2.99it/s]
Power Factorization: 27%	135/500 [00:45<02:05, 2.91it/s]
Power Factorization: 27%	136/500 [00:45<02:07, 2.85it/s]
Power Factorization: 27%	137/500 [00:46<02:10, 2.79it/s]
Power Factorization: 28%	138/500 [00:46<02:01, 2.97it/s]
Power Factorization: 28%	139/500 [00:46<02:06, 2.84it/s]
Power Factorization: 28%	140/500 [00:47<02:03, 2.91it/s]
Power Factorization: 28%	141/500 [00:47<02:02, 2.93it/s]
Power Factorization: 28%	142/500 [00:47<02:07, 2.82it/s]
Power Factorization: 29%	143/500 [00:48<02:01, 2.93it/s]
Power Factorization: 29%	144/500 [00:48<02:03, 2.87it/s]
Power Factorization: 29%	145/500 [00:48<02:00, 2.95it/s]
Power Factorization: 29%	146/500 [00:49<01:56, 3.04it/s]
Power Factorization: 29%	147/500 [00:49<01:57, 3.00it/s]
Power Factorization: 30%	148/500 [00:50<02:01, 2.90it/s]
Power Factorization: 30%	149/500 [00:50<01:56, 3.01it/s]

Power Factorization: 30%	150/500 [00:50<02:01, 2.89it/s]
Power Factorization: 30%	151/500 [00:51<02:03, 2.82it/s]
Power Factorization: 30%	152/500 [00:51<02:03, 2.82it/s]
Power Factorization: 31%	153/500 [00:51<02:02, 2.84it/s]
Power Factorization: 31%	154/500 [00:52<02:01, 2.84it/s]
Power Factorization: 31%	155/500 [00:52<01:59, 2.88it/s]
Power Factorization: 31%	156/500 [00:52<01:57, 2.93it/s]
Power Factorization: 31%	157/500 [00:53<01:58, 2.89it/s]
Power Factorization: 32%	158/500 [00:53<01:57, 2.92it/s]
Power Factorization: 32%	159/500 [00:53<01:56, 2.93it/s]
Power Factorization: 32%	160/500 [00:54<01:58, 2.86it/s]
Power Factorization: 32%	161/500 [00:54<01:56, 2.90it/s]
Power Factorization: 32%	162/500 [00:54<01:55, 2.92it/s]
Power Factorization: 33%	163/500 [00:55<02:01, 2.76it/s]
Power Factorization: 33%	164/500 [00:55<02:05, 2.69it/s]
Power Factorization: 33%	165/500 [00:56<02:04, 2.69it/s]
Power Factorization: 33%	166/500 [00:56<02:00, 2.78it/s]
Power Factorization: 33%	167/500 [00:56<01:58, 2.80it/s]
Power Factorization: 34%	168/500 [00:57<01:59, 2.78it/s]
Power Factorization: 34%	169/500 [00:57<01:59, 2.77it/s]
Power Factorization: 34%	170/500 [00:57<01:52, 2.92it/s]
Power Factorization: 34%	171/500 [00:58<01:50, 2.99it/s]
Power Factorization: 34%	172/500 [00:58<01:49, 2.99it/s]
Power Factorization: 35%	173/500 [00:58<01:53, 2.89it/s]

Power Factorization: 35%	174/500 [00:59<01:48,	3.00it/s]
Power Factorization: 35%	175/500 [00:59<01:46,	3.04it/s]
Power Factorization: 35%	176/500 [00:59<01:46,	3.04it/s]
Power Factorization: 35%	177/500 [01:00<01:48,	2.98it/s]
Power Factorization: 36%	178/500 [01:00<01:47,	3.00it/s]
Power Factorization: 36%	179/500 [01:00<01:48,	2.97it/s]
Power Factorization: 36%	180/500 [01:01<01:47,	2.98it/s]
Power Factorization: 36%	181/500 [01:01<01:45,	3.03it/s]
Power Factorization: 36%	182/500 [01:01<01:44,	3.05it/s]
Power Factorization: 37%	183/500 [01:02<01:46,	2.99it/s]
Power Factorization: 37%	184/500 [01:02<01:46,	2.97it/s]
Power Factorization: 37%	185/500 [01:02<01:46,	2.96it/s]
Power Factorization: 37%	186/500 [01:03<01:43,	3.03it/s]
Power Factorization: 37%	187/500 [01:03<01:44,	2.99it/s]
Power Factorization: 38%	188/500 [01:03<01:49,	2.85it/s]
Power Factorization: 38%	189/500 [01:04<01:48,	2.86it/s]
Power Factorization: 38%	190/500 [01:04<01:50,	2.81it/s]
Power Factorization: 38%	191/500 [01:04<01:50,	2.79it/s]
Power Factorization: 38%	192/500 [01:05<01:49,	2.81it/s]
Power Factorization: 39%	193/500 [01:05<01:44,	2.94it/s]
Power Factorization: 39%	194/500 [01:05<01:44,	2.93it/s]
Power Factorization: 39%	195/500 [01:06<01:46,	2.86it/s]
Power Factorization: 39%	196/500 [01:06<01:44,	2.92it/s]
Power Factorization: 39%	197/500 [01:06<01:43,	2.93it/s]

Power Factorization: 40%	198/500 [01:07<01:42,	2.94it/s]
Power Factorization: 40%	199/500 [01:07<01:44,	2.89it/s]
Power Factorization: 40%	200/500 [01:07<01:41,	2.95it/s]
Power Factorization: 40%	201/500 [01:08<01:39,	3.00it/s]
Power Factorization: 40%	202/500 [01:08<01:43,	2.87it/s]
Power Factorization: 41%	203/500 [01:08<01:40,	2.96it/s]
Power Factorization: 41%	204/500 [01:09<01:40,	2.95it/s]
Power Factorization: 41%	205/500 [01:09<01:42,	2.89it/s]
Power Factorization: 41%	206/500 [01:09<01:42,	2.87it/s]
Power Factorization: 41%	207/500 [01:10<01:41,	2.89it/s]
Power Factorization: 42%	208/500 [01:10<01:37,	3.00it/s]
Power Factorization: 42%	209/500 [01:10<01:38,	2.96it/s]
Power Factorization: 42%	210/500 [01:11<01:36,	3.00it/s]
Power Factorization: 42%	211/500 [01:11<01:37,	2.96it/s]
Power Factorization: 42%	212/500 [01:11<01:33,	3.07it/s]
Power Factorization: 43%	213/500 [01:12<01:34,	3.05it/s]
Power Factorization: 43%	214/500 [01:12<01:36,	2.97it/s]
Power Factorization: 43%	215/500 [01:12<01:32,	3.07it/s]
Power Factorization: 43%	216/500 [01:13<01:30,	3.12it/s]
Power Factorization: 43%	217/500 [01:13<01:35,	2.97it/s]
Power Factorization: 44%	218/500 [01:13<01:33,	3.01it/s]
Power Factorization: 44%	219/500 [01:14<01:34,	2.97it/s]
Power Factorization: 44%	220/500 [01:14<01:34,	2.96it/s]
Power Factorization: 44%	221/500 [01:14<01:35,	2.91it/s]

Power Factorization: 44%	222/500 [01:15<01:33, 2.96it/s]
Power Factorization: 45%	223/500 [01:15<01:38, 2.81it/s]
Power Factorization: 45%	224/500 [01:16<01:33, 2.94it/s]
Power Factorization: 45%	225/500 [01:16<01:35, 2.86it/s]
Power Factorization: 45%	226/500 [01:16<01:34, 2.90it/s]
Power Factorization: 45%	227/500 [01:17<01:30, 3.03it/s]
Power Factorization: 46%	228/500 [01:17<01:34, 2.87it/s]
Power Factorization: 46%	229/500 [01:17<01:33, 2.90it/s]
Power Factorization: 46%	230/500 [01:18<01:33, 2.89it/s]
Power Factorization: 46%	231/500 [01:18<01:30, 2.97it/s]
Power Factorization: 46%	232/500 [01:18<01:28, 3.03it/s]
Power Factorization: 47%	233/500 [01:19<01:28, 3.02it/s]
Power Factorization: 47%	234/500 [01:19<01:27, 3.03it/s]
Power Factorization: 47%	235/500 [01:19<01:30, 2.93it/s]
Power Factorization: 47%	236/500 [01:20<01:32, 2.87it/s]
Power Factorization: 47%	237/500 [01:20<01:26, 3.02it/s]
Power Factorization: 48%	238/500 [01:20<01:26, 3.02it/s]
Power Factorization: 48%	239/500 [01:21<01:26, 3.03it/s]
Power Factorization: 48%	240/500 [01:21<01:24, 3.09it/s]
Power Factorization: 48%	241/500 [01:21<01:25, 3.04it/s]
Power Factorization: 48%	242/500 [01:22<01:24, 3.05it/s]
Power Factorization: 49%	243/500 [01:22<01:24, 3.03it/s]
Power Factorization: 49%	244/500 [01:22<01:24, 3.02it/s]
Power Factorization: 49%	245/500 [01:23<01:26, 2.94it/s]

Power Factorization: 49%	246/500 [01:23<01:26, 2.95it/s]
Power Factorization: 49%	247/500 [01:23<01:26, 2.94it/s]
Power Factorization: 50%	248/500 [01:24<01:25, 2.95it/s]
Power Factorization: 50%	249/500 [01:24<01:24, 2.97it/s]
Power Factorization: 50%	250/500 [01:24<01:25, 2.91it/s]
Power Factorization: 50%	251/500 [01:25<01:26, 2.87it/s]
Power Factorization: 50%	252/500 [01:25<01:27, 2.84it/s]
Power Factorization: 51%	253/500 [01:25<01:26, 2.84it/s]
Power Factorization: 51%	254/500 [01:26<01:23, 2.94it/s]
Power Factorization: 51%	255/500 [01:26<01:20, 3.06it/s]
Power Factorization: 51%	256/500 [01:26<01:22, 2.97it/s]
Power Factorization: 51%	257/500 [01:27<01:21, 2.99it/s]
Power Factorization: 52%	258/500 [01:27<01:19, 3.03it/s]
Power Factorization: 52%	259/500 [01:27<01:20, 2.98it/s]
Power Factorization: 52%	260/500 [01:28<01:24, 2.83it/s]
Power Factorization: 52%	261/500 [01:28<01:25, 2.78it/s]
Power Factorization: 52%	262/500 [01:28<01:21, 2.93it/s]
Power Factorization: 53%	263/500 [01:29<01:18, 3.04it/s]
Power Factorization: 53%	264/500 [01:29<01:18, 3.00it/s]
Power Factorization: 53%	265/500 [01:29<01:17, 3.03it/s]
Power Factorization: 53%	266/500 [01:30<01:16, 3.05it/s]
Power Factorization: 53%	267/500 [01:30<01:22, 2.82it/s]
Power Factorization: 54%	268/500 [01:30<01:24, 2.74it/s]
Power Factorization: 54%	269/500 [01:31<01:22, 2.79it/s]

Power Factorization: 54%	270/500 [01:31<01:20, 2.86it/s]
Power Factorization: 54%	271/500 [01:32<01:20, 2.85it/s]
Power Factorization: 54%	272/500 [01:32<01:19, 2.87it/s]
Power Factorization: 55%	273/500 [01:32<01:16, 2.96it/s]
Power Factorization: 55%	274/500 [01:32<01:14, 3.04it/s]
Power Factorization: 55%	275/500 [01:33<01:13, 3.08it/s]
Power Factorization: 55%	276/500 [01:33<01:11, 3.12it/s]
Power Factorization: 55%	277/500 [01:33<01:12, 3.09it/s]
Power Factorization: 56%	278/500 [01:34<01:14, 2.99it/s]
Power Factorization: 56%	279/500 [01:34<01:12, 3.03it/s]
Power Factorization: 56%	280/500 [01:34<01:13, 3.00it/s]
Power Factorization: 56%	281/500 [01:35<01:15, 2.89it/s]
Power Factorization: 56%	282/500 [01:35<01:16, 2.85it/s]
Power Factorization: 57%	283/500 [01:36<01:14, 2.90it/s]
Power Factorization: 57%	284/500 [01:36<01:13, 2.93it/s]
Power Factorization: 57%	285/500 [01:36<01:10, 3.03it/s]
Power Factorization: 57%	286/500 [01:37<01:12, 2.96it/s]
Power Factorization: 57%	287/500 [01:37<01:10, 3.02it/s]
Power Factorization: 58%	288/500 [01:37<01:08, 3.08it/s]
Power Factorization: 58%	289/500 [01:37<01:07, 3.12it/s]
Power Factorization: 58%	290/500 [01:38<01:07, 3.11it/s]
Power Factorization: 58%	291/500 [01:38<01:07, 3.07it/s]
Power Factorization: 58%	292/500 [01:38<01:05, 3.16it/s]
Power Factorization: 59%	293/500 [01:39<01:08, 3.03it/s]

Power Factorization: 59%	294/500 [01:39<01:08, 3.00it/s]
Power Factorization: 59%	295/500 [01:39<01:08, 3.01it/s]
Power Factorization: 59%	296/500 [01:40<01:08, 2.96it/s]
Power Factorization: 59%	297/500 [01:40<01:07, 3.03it/s]
Power Factorization: 60%	298/500 [01:40<01:09, 2.92it/s]
Power Factorization: 60%	299/500 [01:41<01:09, 2.88it/s]
Power Factorization: 60%	300/500 [01:41<01:10, 2.85it/s]
Power Factorization: 60%	301/500 [01:42<01:08, 2.90it/s]
Power Factorization: 60%	302/500 [01:42<01:07, 2.92it/s]
Power Factorization: 61%	303/500 [01:42<01:04, 3.05it/s]
Power Factorization: 61%	304/500 [01:42<01:04, 3.04it/s]
Power Factorization: 61%	305/500 [01:43<01:01, 3.15it/s]
Power Factorization: 61%	306/500 [01:43<01:03, 3.07it/s]
Power Factorization: 61%	307/500 [01:44<01:08, 2.80it/s]
Power Factorization: 62%	308/500 [01:44<01:08, 2.80it/s]
Power Factorization: 62%	309/500 [01:44<01:08, 2.79it/s]
Power Factorization: 62%	310/500 [01:45<01:12, 2.61it/s]
Power Factorization: 62%	311/500 [01:45<01:10, 2.69it/s]
Power Factorization: 62%	312/500 [01:45<01:07, 2.80it/s]
Power Factorization: 63%	313/500 [01:46<01:06, 2.80it/s]
Power Factorization: 63%	314/500 [01:46<01:07, 2.74it/s]
Power Factorization: 63%	315/500 [01:46<01:05, 2.84it/s]
Power Factorization: 63%	316/500 [01:47<01:03, 2.90it/s]
Power Factorization: 63%	317/500 [01:47<01:05, 2.79it/s]

Power Factorization: 64%	318/500 [01:47<01:02, 2.91it/s]
Power Factorization: 64%	319/500 [01:48<01:00, 2.97it/s]
Power Factorization: 64%	320/500 [01:48<00:58, 3.10it/s]
Power Factorization: 64%	321/500 [01:48<00:58, 3.04it/s]
Power Factorization: 64%	322/500 [01:49<00:58, 3.03it/s]
Power Factorization: 65%	323/500 [01:49<00:58, 3.04it/s]
Power Factorization: 65%	324/500 [01:49<00:57, 3.06it/s]
Power Factorization: 65%	325/500 [01:50<00:59, 2.96it/s]
Power Factorization: 65%	326/500 [01:50<00:56, 3.06it/s]
Power Factorization: 65%	327/500 [01:50<00:56, 3.07it/s]
Power Factorization: 66%	328/500 [01:51<00:57, 3.00it/s]
Power Factorization: 66%	329/500 [01:51<00:58, 2.93it/s]
Power Factorization: 66%	330/500 [01:51<00:57, 2.95it/s]
Power Factorization: 66%	331/500 [01:52<00:57, 2.95it/s]
Power Factorization: 66%	332/500 [01:52<00:55, 3.03it/s]
Power Factorization: 67%	333/500 [01:52<00:53, 3.13it/s]
Power Factorization: 67%	334/500 [01:53<00:53, 3.13it/s]
Power Factorization: 67%	335/500 [01:53<00:51, 3.18it/s]
Power Factorization: 67%	336/500 [01:53<00:54, 3.03it/s]
Power Factorization: 67%	337/500 [01:54<00:52, 3.09it/s]
Power Factorization: 68%	338/500 [01:54<00:51, 3.12it/s]
Power Factorization: 68%	339/500 [01:54<00:51, 3.14it/s]
Power Factorization: 68%	340/500 [01:55<00:52, 3.04it/s]
Power Factorization: 68%	341/500 [01:55<00:52, 3.01it/s]

Power Factorization: 68%	342/500 [01:55<00:53, 2.94it/s]
Power Factorization: 69%	343/500 [01:56<00:54, 2.90it/s]
Power Factorization: 69%	344/500 [01:56<00:52, 2.97it/s]
Power Factorization: 69%	345/500 [01:56<00:54, 2.85it/s]
Power Factorization: 69%	346/500 [01:57<00:54, 2.85it/s]
Power Factorization: 69%	347/500 [01:57<00:53, 2.84it/s]
Power Factorization: 70%	348/500 [01:57<00:51, 2.96it/s]
Power Factorization: 70%	349/500 [01:58<00:51, 2.95it/s]
Power Factorization: 70%	350/500 [01:58<00:49, 3.00it/s]
Power Factorization: 70%	351/500 [01:58<00:50, 2.93it/s]
Power Factorization: 70%	352/500 [01:59<00:50, 2.91it/s]
Power Factorization: 71%	353/500 [01:59<00:49, 2.96it/s]
Power Factorization: 71%	354/500 [01:59<00:47, 3.06it/s]
Power Factorization: 71%	355/500 [02:00<00:46, 3.12it/s]
Power Factorization: 71%	356/500 [02:00<00:44, 3.26it/s]
Power Factorization: 71%	357/500 [02:00<00:45, 3.17it/s]
Power Factorization: 72%	358/500 [02:01<00:43, 3.26it/s]
Power Factorization: 72%	359/500 [02:01<00:44, 3.16it/s]
Power Factorization: 72%	360/500 [02:01<00:47, 2.95it/s]
Power Factorization: 72%	361/500 [02:02<00:47, 2.91it/s]
Power Factorization: 72%	362/500 [02:02<00:46, 2.96it/s]
Power Factorization: 73%	363/500 [02:02<00:45, 3.02it/s]
Power Factorization: 73%	364/500 [02:03<00:46, 2.95it/s]
Power Factorization: 73%	365/500 [02:03<00:44, 3.04it/s]

Power Factorization: 73%	366/500 [02:03<00:43,	3.05it/s]
Power Factorization: 73%	367/500 [02:04<00:43,	3.07it/s]
Power Factorization: 74%	368/500 [02:04<00:42,	3.07it/s]
Power Factorization: 74%	369/500 [02:04<00:41,	3.15it/s]
Power Factorization: 74%	370/500 [02:05<00:42,	3.09it/s]
Power Factorization: 74%	371/500 [02:05<00:41,	3.13it/s]
Power Factorization: 74%	372/500 [02:05<00:42,	3.00it/s]
Power Factorization: 75%	373/500 [02:06<00:42,	3.00it/s]
Power Factorization: 75%	374/500 [02:06<00:43,	2.91it/s]
Power Factorization: 75%	375/500 [02:06<00:41,	2.98it/s]
Power Factorization: 75%	376/500 [02:07<00:42,	2.92it/s]
Power Factorization: 75%	377/500 [02:07<00:42,	2.93it/s]
Power Factorization: 76%	378/500 [02:07<00:41,	2.97it/s]
Power Factorization: 76%	379/500 [02:08<00:41,	2.92it/s]
Power Factorization: 76%	380/500 [02:08<00:41,	2.86it/s]
Power Factorization: 76%	381/500 [02:08<00:41,	2.84it/s]
Power Factorization: 76%	382/500 [02:09<00:42,	2.77it/s]
Power Factorization: 77%	383/500 [02:09<00:42,	2.75it/s]
Power Factorization: 77%	384/500 [02:10<00:43,	2.64it/s]
Power Factorization: 77%	385/500 [02:10<00:41,	2.75it/s]
Power Factorization: 77%	386/500 [02:10<00:39,	2.85it/s]
Power Factorization: 77%	387/500 [02:11<00:38,	2.95it/s]
Power Factorization: 78%	388/500 [02:11<00:39,	2.84it/s]
Power Factorization: 78%	389/500 [02:11<00:39,	2.79it/s]

Power Factorization: 78%	390/500 [02:12<00:39, 2.76it/s]
Power Factorization: 78%	391/500 [02:12<00:38, 2.86it/s]
Power Factorization: 78%	392/500 [02:12<00:37, 2.84it/s]
Power Factorization: 79%	393/500 [02:13<00:37, 2.87it/s]
Power Factorization: 79%	394/500 [02:13<00:36, 2.89it/s]
Power Factorization: 79%	395/500 [02:13<00:36, 2.90it/s]
Power Factorization: 79%	396/500 [02:14<00:35, 2.96it/s]
Power Factorization: 79%	397/500 [02:14<00:34, 2.99it/s]
Power Factorization: 80%	398/500 [02:14<00:33, 3.02it/s]
Power Factorization: 80%	399/500 [02:15<00:34, 2.94it/s]
Power Factorization: 80%	400/500 [02:15<00:35, 2.83it/s]
Power Factorization: 80%	401/500 [02:15<00:33, 2.92it/s]
Power Factorization: 80%	402/500 [02:16<00:33, 2.90it/s]
Power Factorization: 81%	403/500 [02:16<00:32, 2.94it/s]
Power Factorization: 81%	404/500 [02:16<00:33, 2.91it/s]
Power Factorization: 81%	405/500 [02:17<00:32, 2.92it/s]
Power Factorization: 81%	406/500 [02:17<00:32, 2.93it/s]
Power Factorization: 81%	407/500 [02:17<00:32, 2.90it/s]
Power Factorization: 82%	408/500 [02:18<00:34, 2.70it/s]
Power Factorization: 82%	409/500 [02:18<00:32, 2.79it/s]
Power Factorization: 82%	410/500 [02:19<00:31, 2.84it/s]
Power Factorization: 82%	411/500 [02:19<00:30, 2.96it/s]
Power Factorization: 82%	412/500 [02:19<00:30, 2.88it/s]
Power Factorization: 83%	413/500 [02:20<00:30, 2.81it/s]

Power Factorization: 83%	414/500 [02:20<00:29,	2.90it/s]
Power Factorization: 83%	415/500 [02:20<00:28,	3.00it/s]
Power Factorization: 83%	416/500 [02:21<00:28,	2.98it/s]
Power Factorization: 83%	417/500 [02:21<00:28,	2.92it/s]
Power Factorization: 84%	418/500 [02:21<00:27,	2.94it/s]
Power Factorization: 84%	419/500 [02:22<00:27,	2.98it/s]
Power Factorization: 84%	420/500 [02:22<00:27,	2.95it/s]
Power Factorization: 84%	421/500 [02:22<00:26,	3.00it/s]
Power Factorization: 84%	422/500 [02:23<00:26,	2.98it/s]
Power Factorization: 85%	423/500 [02:23<00:26,	2.90it/s]
Power Factorization: 85%	424/500 [02:23<00:28,	2.69it/s]
Power Factorization: 85%	425/500 [02:24<00:28,	2.68it/s]
Power Factorization: 85%	426/500 [02:24<00:26,	2.77it/s]
Power Factorization: 85%	427/500 [02:24<00:25,	2.91it/s]
Power Factorization: 86%	428/500 [02:25<00:24,	2.97it/s]
Power Factorization: 86%	429/500 [02:25<00:23,	3.03it/s]
Power Factorization: 86%	430/500 [02:25<00:23,	2.96it/s]
Power Factorization: 86%	431/500 [02:26<00:25,	2.72it/s]
Power Factorization: 86%	432/500 [02:26<00:24,	2.81it/s]
Power Factorization: 87%	433/500 [02:26<00:23,	2.89it/s]
Power Factorization: 87%	434/500 [02:27<00:22,	2.90it/s]
Power Factorization: 87%	435/500 [02:27<00:22,	2.92it/s]
Power Factorization: 87%	436/500 [02:27<00:21,	2.96it/s]
Power Factorization: 87%	437/500 [02:28<00:21,	2.99it/s]

Power Factorization: 88%	438/500 [02:28<00:20,	3.01it/s]
Power Factorization: 88%	439/500 [02:29<00:21,	2.89it/s]
Power Factorization: 88%	440/500 [02:29<00:20,	2.95it/s]
Power Factorization: 88%	441/500 [02:29<00:19,	3.00it/s]
Power Factorization: 88%	442/500 [02:29<00:19,	3.04it/s]
Power Factorization: 89%	443/500 [02:30<00:18,	3.04it/s]
Power Factorization: 89%	444/500 [02:30<00:18,	2.99it/s]
Power Factorization: 89%	445/500 [02:30<00:18,	2.99it/s]
Power Factorization: 89%	446/500 [02:31<00:18,	2.93it/s]
Power Factorization: 89%	447/500 [02:31<00:18,	2.90it/s]
Power Factorization: 90%	448/500 [02:32<00:17,	3.01it/s]
Power Factorization: 90%	449/500 [02:32<00:17,	2.97it/s]
Power Factorization: 90%	450/500 [02:32<00:16,	2.99it/s]
Power Factorization: 90%	451/500 [02:33<00:16,	3.03it/s]
Power Factorization: 90%	452/500 [02:33<00:15,	3.11it/s]
Power Factorization: 91%	453/500 [02:33<00:15,	3.00it/s]
Power Factorization: 91%	454/500 [02:33<00:15,	3.02it/s]
Power Factorization: 91%	455/500 [02:34<00:15,	2.84it/s]
Power Factorization: 91%	456/500 [02:34<00:16,	2.63it/s]
Power Factorization: 91%	457/500 [02:35<00:16,	2.56it/s]
Power Factorization: 92%	458/500 [02:35<00:16,	2.60it/s]
Power Factorization: 92%	459/500 [02:35<00:15,	2.68it/s]
Power Factorization: 92%	460/500 [02:36<00:14,	2.72it/s]
Power Factorization: 92%	461/500 [02:36<00:14,	2.77it/s]

Power Factorization: 92%	462/500 [02:36<00:13, 2.92it/s]
Power Factorization: 93%	463/500 [02:37<00:12, 3.06it/s]
Power Factorization: 93%	464/500 [02:37<00:11, 3.00it/s]
Power Factorization: 93%	465/500 [02:37<00:11, 2.95it/s]
Power Factorization: 93%	466/500 [02:38<00:11, 2.97it/s]
Power Factorization: 93%	467/500 [02:38<00:11, 2.87it/s]
Power Factorization: 94%	468/500 [02:39<00:11, 2.87it/s]
Power Factorization: 94%	469/500 [02:39<00:10, 2.91it/s]
Power Factorization: 94%	470/500 [02:39<00:10, 2.86it/s]
Power Factorization: 94%	471/500 [02:40<00:10, 2.90it/s]
Power Factorization: 94%	472/500 [02:40<00:09, 2.94it/s]
Power Factorization: 95%	473/500 [02:40<00:09, 2.92it/s]
Power Factorization: 95%	474/500 [02:41<00:08, 2.94it/s]
Power Factorization: 95%	475/500 [02:41<00:08, 2.92it/s]
Power Factorization: 95%	476/500 [02:41<00:08, 2.88it/s]
Power Factorization: 95%	477/500 [02:42<00:08, 2.77it/s]
Power Factorization: 96%	478/500 [02:42<00:07, 2.82it/s]
Power Factorization: 96%	479/500 [02:42<00:07, 2.75it/s]
Power Factorization: 96%	480/500 [02:43<00:07, 2.81it/s]
Power Factorization: 96%	481/500 [02:43<00:06, 2.83it/s]
Power Factorization: 96%	482/500 [02:43<00:06, 2.88it/s]
Power Factorization: 97%	483/500 [02:44<00:05, 2.94it/s]
Power Factorization: 97%	484/500 [02:44<00:05, 3.04it/s]
Power Factorization: 97%	485/500 [02:44<00:04, 3.07it/s]

Power Factorization: 97%	486/500 [02:45<00:04, 3.05it/s]
Power Factorization: 97%	487/500 [02:45<00:04, 2.95it/s]
Power Factorization: 98%	488/500 [02:45<00:04, 2.96it/s]
Power Factorization: 98%	489/500 [02:46<00:03, 2.93it/s]
Power Factorization: 98%	490/500 [02:46<00:03, 2.96it/s]
Power Factorization: 98%	491/500 [02:46<00:03, 2.94it/s]
Power Factorization: 98%	492/500 [02:47<00:02, 2.91it/s]
Power Factorization: 99%	493/500 [02:47<00:02, 2.83it/s]
Power Factorization: 99%	494/500 [02:47<00:02, 2.89it/s]
Power Factorization: 99%	495/500 [02:48<00:01, 2.92it/s]
Power Factorization: 99%	496/500 [02:48<00:01, 3.05it/s]
Power Factorization: 99%	497/500 [02:48<00:00, 3.15it/s]
Power Factorization: 100%	498/500 [02:49<00:00, 3.11it/s]
Power Factorization: 100%	499/500 [02:49<00:00, 2.94it/s]
Power Factorization: 100%	500/500 [02:49<00:00, 2.94it/s]
Cross Validation: 80%	4/5 [11:22<02:50, 170.35s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:58, 2.80it/s]
Power Factorization: 0%	2/500 [00:00<02:55, 2.85it/s]
Power Factorization: 1%	3/500 [00:01<02:51, 2.91it/s]
Power Factorization: 1%	4/500 [00:01<02:52, 2.88it/s]
Power Factorization: 1%	5/500 [00:01<02:46, 2.98it/s]
Power Factorization: 1%	6/500 [00:02<02:49, 2.91it/s]
Power Factorization: 1%	7/500 [00:02<02:46, 2.96it/s]

Power Factorization:	2%	8/500 [00:02<02:46, 2.95it/s]
Power Factorization:	2%	9/500 [00:03<02:47, 2.93it/s]
Power Factorization:	2%	10/500 [00:03<02:50, 2.87it/s]
Power Factorization:	2%	11/500 [00:03<02:49, 2.89it/s]
Power Factorization:	2%	12/500 [00:04<02:42, 3.01it/s]
Power Factorization:	3%	13/500 [00:04<02:46, 2.92it/s]
Power Factorization:	3%	14/500 [00:04<02:50, 2.85it/s]
Power Factorization:	3%	15/500 [00:05<02:44, 2.95it/s]
Power Factorization:	3%	16/500 [00:05<02:51, 2.83it/s]
Power Factorization:	3%	17/500 [00:05<02:56, 2.74it/s]
Power Factorization:	4%	18/500 [00:06<02:52, 2.80it/s]
Power Factorization:	4%	19/500 [00:06<02:43, 2.94it/s]
Power Factorization:	4%	20/500 [00:06<02:40, 2.99it/s]
Power Factorization:	4%	21/500 [00:07<02:44, 2.91it/s]
Power Factorization:	4%	22/500 [00:07<02:39, 2.99it/s]
Power Factorization:	5%	23/500 [00:07<02:42, 2.94it/s]
Power Factorization:	5%	24/500 [00:08<02:39, 2.98it/s]
Power Factorization:	5%	25/500 [00:08<02:42, 2.93it/s]
Power Factorization:	5%	26/500 [00:09<02:54, 2.72it/s]
Power Factorization:	5%	27/500 [00:09<02:50, 2.78it/s]
Power Factorization:	6%	28/500 [00:09<02:41, 2.92it/s]
Power Factorization:	6%	29/500 [00:09<02:40, 2.93it/s]
Power Factorization:	6%	30/500 [00:10<02:47, 2.81it/s]
Power Factorization:	6%	31/500 [00:10<02:39, 2.93it/s]

Power Factorization:	6%	32/500	[00:11<02:40,	2.92it/s]
Power Factorization:	7%	33/500	[00:11<02:44,	2.85it/s]
Power Factorization:	7%	34/500	[00:11<02:42,	2.87it/s]
Power Factorization:	7%	35/500	[00:12<02:37,	2.96it/s]
Power Factorization:	7%	36/500	[00:12<02:39,	2.92it/s]
Power Factorization:	7%	37/500	[00:12<02:43,	2.84it/s]
Power Factorization:	8%	38/500	[00:13<02:51,	2.69it/s]
Power Factorization:	8%	39/500	[00:13<02:42,	2.83it/s]
Power Factorization:	8%	40/500	[00:13<02:40,	2.86it/s]
Power Factorization:	8%	41/500	[00:14<02:55,	2.61it/s]
Power Factorization:	8%	42/500	[00:14<02:50,	2.69it/s]
Power Factorization:	9%	43/500	[00:14<02:40,	2.84it/s]
Power Factorization:	9%	44/500	[00:15<02:37,	2.89it/s]
Power Factorization:	9%	45/500	[00:15<02:39,	2.86it/s]
Power Factorization:	9%	46/500	[00:16<02:58,	2.54it/s]
Power Factorization:	9%	47/500	[00:16<02:53,	2.61it/s]
Power Factorization:	10%	48/500	[00:16<02:42,	2.77it/s]
Power Factorization:	10%	49/500	[00:17<02:40,	2.82it/s]
Power Factorization:	10%	50/500	[00:17<02:34,	2.91it/s]
Power Factorization:	10%	51/500	[00:17<02:34,	2.90it/s]
Power Factorization:	10%	52/500	[00:18<02:39,	2.81it/s]
Power Factorization:	11%	53/500	[00:18<02:33,	2.91it/s]
Power Factorization:	11%	54/500	[00:18<02:31,	2.94it/s]
Power Factorization:	11%	55/500	[00:19<02:30,	2.96it/s]

Power Factorization: 11%	56/500 [00:19<02:28, 3.00it/s]
Power Factorization: 11%	57/500 [00:19<02:24, 3.07it/s]
Power Factorization: 12%	58/500 [00:20<02:27, 2.99it/s]
Power Factorization: 12%	59/500 [00:20<02:28, 2.98it/s]
Power Factorization: 12%	60/500 [00:20<02:27, 2.99it/s]
Power Factorization: 12%	61/500 [00:21<02:31, 2.91it/s]
Power Factorization: 12%	62/500 [00:21<02:31, 2.90it/s]
Power Factorization: 13%	63/500 [00:21<02:28, 2.95it/s]
Power Factorization: 13%	64/500 [00:22<02:23, 3.05it/s]
Power Factorization: 13%	65/500 [00:22<02:20, 3.10it/s]
Power Factorization: 13%	66/500 [00:22<02:24, 3.01it/s]
Power Factorization: 13%	67/500 [00:23<02:25, 2.97it/s]
Power Factorization: 14%	68/500 [00:23<02:29, 2.88it/s]
Power Factorization: 14%	69/500 [00:23<02:33, 2.80it/s]
Power Factorization: 14%	70/500 [00:24<02:30, 2.86it/s]
Power Factorization: 14%	71/500 [00:24<02:26, 2.92it/s]
Power Factorization: 14%	72/500 [00:24<02:23, 2.98it/s]
Power Factorization: 15%	73/500 [00:25<02:27, 2.90it/s]
Power Factorization: 15%	74/500 [00:25<02:26, 2.92it/s]
Power Factorization: 15%	75/500 [00:25<02:24, 2.95it/s]
Power Factorization: 15%	76/500 [00:26<02:18, 3.06it/s]
Power Factorization: 15%	77/500 [00:26<02:18, 3.05it/s]
Power Factorization: 16%	78/500 [00:26<02:22, 2.96it/s]
Power Factorization: 16%	79/500 [00:27<02:24, 2.91it/s]

Power Factorization: 16%	80/500 [00:27<02:20, 3.00it/s]
Power Factorization: 16%	81/500 [00:27<02:24, 2.89it/s]
Power Factorization: 16%	82/500 [00:28<02:29, 2.79it/s]
Power Factorization: 17%	83/500 [00:28<02:28, 2.80it/s]
Power Factorization: 17%	84/500 [00:29<02:21, 2.94it/s]
Power Factorization: 17%	85/500 [00:29<02:23, 2.90it/s]
Power Factorization: 17%	86/500 [00:29<02:19, 2.96it/s]
Power Factorization: 17%	87/500 [00:30<02:18, 2.99it/s]
Power Factorization: 18%	88/500 [00:30<02:29, 2.75it/s]
Power Factorization: 18%	89/500 [00:30<02:31, 2.71it/s]
Power Factorization: 18%	90/500 [00:31<02:25, 2.82it/s]
Power Factorization: 18%	91/500 [00:31<02:20, 2.92it/s]
Power Factorization: 18%	92/500 [00:31<02:18, 2.94it/s]
Power Factorization: 19%	93/500 [00:32<02:20, 2.89it/s]
Power Factorization: 19%	94/500 [00:32<02:24, 2.81it/s]
Power Factorization: 19%	95/500 [00:32<02:22, 2.84it/s]
Power Factorization: 19%	96/500 [00:33<02:21, 2.86it/s]
Power Factorization: 19%	97/500 [00:33<02:19, 2.89it/s]
Power Factorization: 20%	98/500 [00:33<02:20, 2.87it/s]
Power Factorization: 20%	99/500 [00:34<02:18, 2.90it/s]
Power Factorization: 20%	100/500 [00:34<02:25, 2.75it/s]
Power Factorization: 20%	101/500 [00:35<02:28, 2.69it/s]
Power Factorization: 20%	102/500 [00:35<02:21, 2.81it/s]
Power Factorization: 21%	103/500 [00:35<02:15, 2.92it/s]

Power Factorization: 21%	104/500 [00:36<02:16, 2.90it/s]
Power Factorization: 21%	105/500 [00:36<02:14, 2.93it/s]
Power Factorization: 21%	106/500 [00:36<02:13, 2.95it/s]
Power Factorization: 21%	107/500 [00:37<02:13, 2.94it/s]
Power Factorization: 22%	108/500 [00:37<02:13, 2.94it/s]
Power Factorization: 22%	109/500 [00:37<02:16, 2.87it/s]
Power Factorization: 22%	110/500 [00:38<02:19, 2.79it/s]
Power Factorization: 22%	111/500 [00:38<02:22, 2.72it/s]
Power Factorization: 22%	112/500 [00:38<02:15, 2.87it/s]
Power Factorization: 23%	113/500 [00:39<02:12, 2.91it/s]
Power Factorization: 23%	114/500 [00:39<02:13, 2.89it/s]
Power Factorization: 23%	115/500 [00:39<02:14, 2.86it/s]
Power Factorization: 23%	116/500 [00:40<02:13, 2.88it/s]
Power Factorization: 23%	117/500 [00:40<02:08, 2.99it/s]
Power Factorization: 24%	118/500 [00:40<02:10, 2.93it/s]
Power Factorization: 24%	119/500 [00:41<02:09, 2.94it/s]
Power Factorization: 24%	120/500 [00:41<02:05, 3.03it/s]
Power Factorization: 24%	121/500 [00:41<02:11, 2.89it/s]
Power Factorization: 24%	122/500 [00:42<02:08, 2.93it/s]
Power Factorization: 25%	123/500 [00:42<02:08, 2.93it/s]
Power Factorization: 25%	124/500 [00:42<02:12, 2.84it/s]
Power Factorization: 25%	125/500 [00:43<02:08, 2.93it/s]
Power Factorization: 25%	126/500 [00:43<02:10, 2.86it/s]
Power Factorization: 25%	127/500 [00:43<02:08, 2.90it/s]

Power Factorization: 26%	128/500 [00:44<02:08, 2.89it/s]
Power Factorization: 26%	129/500 [00:44<02:08, 2.90it/s]
Power Factorization: 26%	130/500 [00:45<02:14, 2.76it/s]
Power Factorization: 26%	131/500 [00:45<02:06, 2.92it/s]
Power Factorization: 26%	132/500 [00:45<02:04, 2.95it/s]
Power Factorization: 27%	133/500 [00:46<01:59, 3.06it/s]
Power Factorization: 27%	134/500 [00:46<01:53, 3.21it/s]
Power Factorization: 27%	135/500 [00:46<01:52, 3.25it/s]
Power Factorization: 27%	136/500 [00:46<01:54, 3.17it/s]
Power Factorization: 27%	137/500 [00:47<01:59, 3.03it/s]
Power Factorization: 28%	138/500 [00:47<01:58, 3.06it/s]
Power Factorization: 28%	139/500 [00:47<01:59, 3.03it/s]
Power Factorization: 28%	140/500 [00:48<01:59, 3.02it/s]
Power Factorization: 28%	141/500 [00:48<01:57, 3.06it/s]
Power Factorization: 28%	142/500 [00:48<01:56, 3.07it/s]
Power Factorization: 29%	143/500 [00:49<01:56, 3.07it/s]
Power Factorization: 29%	144/500 [00:49<01:57, 3.03it/s]
Power Factorization: 29%	145/500 [00:49<01:57, 3.01it/s]
Power Factorization: 29%	146/500 [00:50<01:56, 3.04it/s]
Power Factorization: 29%	147/500 [00:50<01:59, 2.94it/s]
Power Factorization: 30%	148/500 [00:50<01:57, 2.99it/s]
Power Factorization: 30%	149/500 [00:51<01:58, 2.95it/s]
Power Factorization: 30%	150/500 [00:51<01:56, 3.01it/s]
Power Factorization: 30%	151/500 [00:51<01:52, 3.10it/s]

Power Factorization: 30%	152/500 [00:52<01:54, 3.04it/s]
Power Factorization: 31%	153/500 [00:52<01:53, 3.05it/s]
Power Factorization: 31%	154/500 [00:52<01:52, 3.07it/s]
Power Factorization: 31%	155/500 [00:53<01:49, 3.14it/s]
Power Factorization: 31%	156/500 [00:53<01:57, 2.92it/s]
Power Factorization: 31%	157/500 [00:53<01:56, 2.94it/s]
Power Factorization: 32%	158/500 [00:54<01:59, 2.85it/s]
Power Factorization: 32%	159/500 [00:54<01:56, 2.93it/s]
Power Factorization: 32%	160/500 [00:54<01:54, 2.97it/s]
Power Factorization: 32%	161/500 [00:55<01:54, 2.96it/s]
Power Factorization: 32%	162/500 [00:55<01:53, 2.97it/s]
Power Factorization: 33%	163/500 [00:55<01:54, 2.94it/s]
Power Factorization: 33%	164/500 [00:56<01:59, 2.81it/s]
Power Factorization: 33%	165/500 [00:56<01:56, 2.87it/s]
Power Factorization: 33%	166/500 [00:56<01:53, 2.94it/s]
Power Factorization: 33%	167/500 [00:57<01:53, 2.94it/s]
Power Factorization: 34%	168/500 [00:57<01:55, 2.87it/s]
Power Factorization: 34%	169/500 [00:58<01:58, 2.79it/s]
Power Factorization: 34%	170/500 [00:58<01:54, 2.87it/s]
Power Factorization: 34%	171/500 [00:58<01:59, 2.74it/s]
Power Factorization: 34%	172/500 [00:59<01:59, 2.74it/s]
Power Factorization: 35%	173/500 [00:59<01:54, 2.86it/s]
Power Factorization: 35%	174/500 [00:59<02:02, 2.66it/s]
Power Factorization: 35%	175/500 [01:00<02:06, 2.57it/s]

Power Factorization: 35%	176/500 [01:00<01:59, 2.71it/s]
Power Factorization: 35%	177/500 [01:01<01:55, 2.79it/s]
Power Factorization: 36%	178/500 [01:01<01:52, 2.87it/s]
Power Factorization: 36%	179/500 [01:01<01:50, 2.90it/s]
Power Factorization: 36%	180/500 [01:02<01:50, 2.90it/s]
Power Factorization: 36%	181/500 [01:02<01:51, 2.87it/s]
Power Factorization: 36%	182/500 [01:02<01:49, 2.91it/s]
Power Factorization: 37%	183/500 [01:03<01:52, 2.81it/s]
Power Factorization: 37%	184/500 [01:03<01:54, 2.77it/s]
Power Factorization: 37%	185/500 [01:03<01:53, 2.77it/s]
Power Factorization: 37%	186/500 [01:04<01:54, 2.74it/s]
Power Factorization: 37%	187/500 [01:04<01:49, 2.87it/s]
Power Factorization: 38%	188/500 [01:04<01:49, 2.85it/s]
Power Factorization: 38%	189/500 [01:05<01:46, 2.91it/s]
Power Factorization: 38%	190/500 [01:05<01:47, 2.90it/s]
Power Factorization: 38%	191/500 [01:05<01:45, 2.93it/s]
Power Factorization: 38%	192/500 [01:06<01:45, 2.93it/s]
Power Factorization: 39%	193/500 [01:06<01:47, 2.85it/s]
Power Factorization: 39%	194/500 [01:06<01:41, 3.03it/s]
Power Factorization: 39%	195/500 [01:07<01:37, 3.14it/s]
Power Factorization: 39%	196/500 [01:07<01:40, 3.04it/s]
Power Factorization: 39%	197/500 [01:07<01:48, 2.80it/s]
Power Factorization: 40%	198/500 [01:08<01:44, 2.88it/s]
Power Factorization: 40%	199/500 [01:08<01:45, 2.85it/s]

Power Factorization: 40%	200/500 [01:09<01:48,	2.76it/s]
Power Factorization: 40%	201/500 [01:09<01:47,	2.77it/s]
Power Factorization: 40%	202/500 [01:09<01:44,	2.85it/s]
Power Factorization: 41%	203/500 [01:10<01:43,	2.88it/s]
Power Factorization: 41%	204/500 [01:10<01:40,	2.95it/s]
Power Factorization: 41%	205/500 [01:10<01:39,	2.95it/s]
Power Factorization: 41%	206/500 [01:11<01:41,	2.89it/s]
Power Factorization: 41%	207/500 [01:11<01:40,	2.91it/s]
Power Factorization: 42%	208/500 [01:11<01:41,	2.87it/s]
Power Factorization: 42%	209/500 [01:12<01:42,	2.85it/s]
Power Factorization: 42%	210/500 [01:12<01:43,	2.81it/s]
Power Factorization: 42%	211/500 [01:12<01:47,	2.69it/s]
Power Factorization: 42%	212/500 [01:13<01:50,	2.61it/s]
Power Factorization: 43%	213/500 [01:13<01:48,	2.64it/s]
Power Factorization: 43%	214/500 [01:14<01:50,	2.60it/s]
Power Factorization: 43%	215/500 [01:14<01:46,	2.68it/s]
Power Factorization: 43%	216/500 [01:14<01:45,	2.70it/s]
Power Factorization: 43%	217/500 [01:15<01:43,	2.73it/s]
Power Factorization: 44%	218/500 [01:15<01:40,	2.81it/s]
Power Factorization: 44%	219/500 [01:15<01:39,	2.84it/s]
Power Factorization: 44%	220/500 [01:16<01:37,	2.88it/s]
Power Factorization: 44%	221/500 [01:16<01:38,	2.82it/s]
Power Factorization: 44%	222/500 [01:16<01:40,	2.77it/s]
Power Factorization: 45%	223/500 [01:17<01:40,	2.76it/s]

Power Factorization: 45%	224/500 [01:17<01:39, 2.77it/s]
Power Factorization: 45%	225/500 [01:17<01:36, 2.84it/s]
Power Factorization: 45%	226/500 [01:18<01:39, 2.76it/s]
Power Factorization: 45%	227/500 [01:18<01:38, 2.78it/s]
Power Factorization: 46%	228/500 [01:18<01:34, 2.89it/s]
Power Factorization: 46%	229/500 [01:19<01:31, 2.96it/s]
Power Factorization: 46%	230/500 [01:19<01:28, 3.04it/s]
Power Factorization: 46%	231/500 [01:19<01:28, 3.02it/s]
Power Factorization: 46%	232/500 [01:20<01:31, 2.94it/s]
Power Factorization: 47%	233/500 [01:20<01:32, 2.90it/s]
Power Factorization: 47%	234/500 [01:21<01:33, 2.85it/s]
Power Factorization: 47%	235/500 [01:21<01:30, 2.92it/s]
Power Factorization: 47%	236/500 [01:21<01:28, 2.97it/s]
Power Factorization: 47%	237/500 [01:22<01:30, 2.90it/s]
Power Factorization: 48%	238/500 [01:22<01:34, 2.78it/s]
Power Factorization: 48%	239/500 [01:22<01:33, 2.78it/s]
Power Factorization: 48%	240/500 [01:23<01:36, 2.71it/s]
Power Factorization: 48%	241/500 [01:23<01:34, 2.74it/s]
Power Factorization: 48%	242/500 [01:23<01:36, 2.68it/s]
Power Factorization: 49%	243/500 [01:24<01:36, 2.66it/s]
Power Factorization: 49%	244/500 [01:24<01:34, 2.72it/s]
Power Factorization: 49%	245/500 [01:25<01:34, 2.69it/s]
Power Factorization: 49%	246/500 [01:25<01:40, 2.52it/s]
Power Factorization: 49%	247/500 [01:25<01:37, 2.60it/s]

Power Factorization: 50%	248/500 [01:26<01:35, 2.64it/s]
Power Factorization: 50%	249/500 [01:26<01:31, 2.74it/s]
Power Factorization: 50%	250/500 [01:26<01:28, 2.83it/s]
Power Factorization: 50%	251/500 [01:27<01:26, 2.87it/s]
Power Factorization: 50%	252/500 [01:27<01:27, 2.84it/s]
Power Factorization: 51%	253/500 [01:27<01:27, 2.81it/s]
Power Factorization: 51%	254/500 [01:28<01:33, 2.64it/s]
Power Factorization: 51%	255/500 [01:28<01:29, 2.75it/s]
Power Factorization: 51%	256/500 [01:29<01:27, 2.80it/s]
Power Factorization: 51%	257/500 [01:29<01:26, 2.81it/s]
Power Factorization: 52%	258/500 [01:29<01:27, 2.77it/s]
Power Factorization: 52%	259/500 [01:30<01:27, 2.77it/s]
Power Factorization: 52%	260/500 [01:30<01:24, 2.84it/s]
Power Factorization: 52%	261/500 [01:30<01:26, 2.78it/s]
Power Factorization: 52%	262/500 [01:31<01:25, 2.80it/s]
Power Factorization: 53%	263/500 [01:31<01:23, 2.85it/s]
Power Factorization: 53%	264/500 [01:31<01:21, 2.90it/s]
Power Factorization: 53%	265/500 [01:32<01:19, 2.96it/s]
Power Factorization: 53%	266/500 [01:32<01:17, 3.03it/s]
Power Factorization: 53%	267/500 [01:32<01:16, 3.04it/s]
Power Factorization: 54%	268/500 [01:33<01:14, 3.11it/s]
Power Factorization: 54%	269/500 [01:33<01:17, 2.96it/s]
Power Factorization: 54%	270/500 [01:33<01:16, 2.99it/s]
Power Factorization: 54%	271/500 [01:34<01:16, 2.99it/s]

Power Factorization: 54%	272/500 [01:34<01:15, 3.02it/s]
Power Factorization: 55%	273/500 [01:34<01:12, 3.15it/s]
Power Factorization: 55%	274/500 [01:35<01:12, 3.13it/s]
Power Factorization: 55%	275/500 [01:35<01:14, 3.02it/s]
Power Factorization: 55%	276/500 [01:35<01:14, 3.00it/s]
Power Factorization: 55%	277/500 [01:36<01:19, 2.81it/s]
Power Factorization: 56%	278/500 [01:36<01:19, 2.79it/s]
Power Factorization: 56%	279/500 [01:36<01:20, 2.76it/s]
Power Factorization: 56%	280/500 [01:37<01:18, 2.79it/s]
Power Factorization: 56%	281/500 [01:37<01:16, 2.85it/s]
Power Factorization: 56%	282/500 [01:38<01:18, 2.77it/s]
Power Factorization: 57%	283/500 [01:38<01:16, 2.85it/s]
Power Factorization: 57%	284/500 [01:38<01:14, 2.89it/s]
Power Factorization: 57%	285/500 [01:39<01:17, 2.76it/s]
Power Factorization: 57%	286/500 [01:39<01:20, 2.66it/s]
Power Factorization: 57%	287/500 [01:39<01:16, 2.79it/s]
Power Factorization: 58%	288/500 [01:40<01:14, 2.84it/s]
Power Factorization: 58%	289/500 [01:40<01:12, 2.91it/s]
Power Factorization: 58%	290/500 [01:40<01:12, 2.88it/s]
Power Factorization: 58%	291/500 [01:41<01:13, 2.84it/s]
Power Factorization: 58%	292/500 [01:41<01:14, 2.80it/s]
Power Factorization: 59%	293/500 [01:41<01:12, 2.87it/s]
Power Factorization: 59%	294/500 [01:42<01:11, 2.89it/s]
Power Factorization: 59%	295/500 [01:42<01:12, 2.81it/s]

Power Factorization: 59%	296/500 [01:42<01:08, 2.97it/s]
Power Factorization: 59%	297/500 [01:43<01:10, 2.90it/s]
Power Factorization: 60%	298/500 [01:43<01:11, 2.82it/s]
Power Factorization: 60%	299/500 [01:43<01:10, 2.84it/s]
Power Factorization: 60%	300/500 [01:44<01:08, 2.94it/s]
Power Factorization: 60%	301/500 [01:44<01:07, 2.95it/s]
Power Factorization: 60%	302/500 [01:44<01:04, 3.06it/s]
Power Factorization: 61%	303/500 [01:45<01:07, 2.94it/s]
Power Factorization: 61%	304/500 [01:45<01:04, 3.03it/s]
Power Factorization: 61%	305/500 [01:45<01:05, 2.98it/s]
Power Factorization: 61%	306/500 [01:46<01:04, 2.99it/s]
Power Factorization: 61%	307/500 [01:46<01:08, 2.81it/s]
Power Factorization: 62%	308/500 [01:47<01:08, 2.80it/s]
Power Factorization: 62%	309/500 [01:47<01:04, 2.95it/s]
Power Factorization: 62%	310/500 [01:47<01:05, 2.92it/s]
Power Factorization: 62%	311/500 [01:48<01:04, 2.93it/s]
Power Factorization: 62%	312/500 [01:48<01:04, 2.90it/s]
Power Factorization: 63%	313/500 [01:48<01:05, 2.86it/s]
Power Factorization: 63%	314/500 [01:49<01:03, 2.91it/s]
Power Factorization: 63%	315/500 [01:49<01:04, 2.87it/s]
Power Factorization: 63%	316/500 [01:49<01:02, 2.94it/s]
Power Factorization: 63%	317/500 [01:50<00:59, 3.06it/s]
Power Factorization: 64%	318/500 [01:50<01:00, 2.98it/s]
Power Factorization: 64%	319/500 [01:50<01:01, 2.92it/s]

Power Factorization: 64%	320/500 [01:51<01:03, 2.85it/s]
Power Factorization: 64%	321/500 [01:51<01:02, 2.86it/s]
Power Factorization: 64%	322/500 [01:51<01:04, 2.74it/s]
Power Factorization: 65%	323/500 [01:52<01:03, 2.79it/s]
Power Factorization: 65%	324/500 [01:52<01:09, 2.55it/s]
Power Factorization: 65%	325/500 [01:53<01:06, 2.62it/s]
Power Factorization: 65%	326/500 [01:53<01:04, 2.69it/s]
Power Factorization: 65%	327/500 [01:53<01:02, 2.77it/s]
Power Factorization: 66%	328/500 [01:54<00:59, 2.87it/s]
Power Factorization: 66%	329/500 [01:54<01:01, 2.77it/s]
Power Factorization: 66%	330/500 [01:54<01:02, 2.73it/s]
Power Factorization: 66%	331/500 [01:55<00:59, 2.85it/s]
Power Factorization: 66%	332/500 [01:55<01:00, 2.78it/s]
Power Factorization: 67%	333/500 [01:55<01:01, 2.73it/s]
Power Factorization: 67%	334/500 [01:56<01:00, 2.75it/s]
Power Factorization: 67%	335/500 [01:56<01:00, 2.72it/s]
Power Factorization: 67%	336/500 [01:57<01:00, 2.73it/s]
Power Factorization: 67%	337/500 [01:57<01:00, 2.68it/s]
Power Factorization: 68%	338/500 [01:57<01:00, 2.67it/s]
Power Factorization: 68%	339/500 [01:58<00:59, 2.70it/s]
Power Factorization: 68%	340/500 [01:58<00:58, 2.74it/s]
Power Factorization: 68%	341/500 [01:58<00:57, 2.75it/s]
Power Factorization: 68%	342/500 [01:59<00:54, 2.91it/s]
Power Factorization: 69%	343/500 [01:59<00:55, 2.84it/s]

Power Factorization: 69%	344/500 [01:59<00:54, 2.85it/s]
Power Factorization: 69%	345/500 [02:00<00:55, 2.81it/s]
Power Factorization: 69%	346/500 [02:00<00:51, 2.97it/s]
Power Factorization: 69%	347/500 [02:00<00:49, 3.07it/s]
Power Factorization: 70%	348/500 [02:01<00:49, 3.09it/s]
Power Factorization: 70%	349/500 [02:01<00:49, 3.04it/s]
Power Factorization: 70%	350/500 [02:01<00:51, 2.90it/s]
Power Factorization: 70%	351/500 [02:02<00:52, 2.84it/s]
Power Factorization: 70%	352/500 [02:02<00:53, 2.75it/s]
Power Factorization: 71%	353/500 [02:02<00:52, 2.80it/s]
Power Factorization: 71%	354/500 [02:03<00:50, 2.89it/s]
Power Factorization: 71%	355/500 [02:03<00:53, 2.70it/s]
Power Factorization: 71%	356/500 [02:04<00:55, 2.58it/s]
Power Factorization: 71%	357/500 [02:04<00:56, 2.53it/s]
Power Factorization: 72%	358/500 [02:04<00:53, 2.66it/s]
Power Factorization: 72%	359/500 [02:05<00:52, 2.71it/s]
Power Factorization: 72%	360/500 [02:05<00:49, 2.81it/s]
Power Factorization: 72%	361/500 [02:05<00:47, 2.94it/s]
Power Factorization: 72%	362/500 [02:06<00:46, 2.99it/s]
Power Factorization: 73%	363/500 [02:06<00:47, 2.90it/s]
Power Factorization: 73%	364/500 [02:06<00:47, 2.84it/s]
Power Factorization: 73%	365/500 [02:07<00:48, 2.77it/s]
Power Factorization: 73%	366/500 [02:07<00:47, 2.82it/s]
Power Factorization: 73%	367/500 [02:07<00:46, 2.86it/s]

Power Factorization: 74%	368/500 [02:08<00:46,	2.86it/s]
Power Factorization: 74%	369/500 [02:08<00:48,	2.72it/s]
Power Factorization: 74%	370/500 [02:09<00:47,	2.72it/s]
Power Factorization: 74%	371/500 [02:09<00:46,	2.75it/s]
Power Factorization: 74%	372/500 [02:09<00:45,	2.81it/s]
Power Factorization: 75%	373/500 [02:10<00:44,	2.85it/s]
Power Factorization: 75%	374/500 [02:10<00:43,	2.91it/s]
Power Factorization: 75%	375/500 [02:10<00:44,	2.83it/s]
Power Factorization: 75%	376/500 [02:11<00:44,	2.81it/s]
Power Factorization: 75%	377/500 [02:11<00:43,	2.82it/s]
Power Factorization: 76%	378/500 [02:11<00:42,	2.86it/s]
Power Factorization: 76%	379/500 [02:12<00:41,	2.88it/s]
Power Factorization: 76%	380/500 [02:12<00:40,	2.95it/s]
Power Factorization: 76%	381/500 [02:12<00:40,	2.93it/s]
Power Factorization: 76%	382/500 [02:13<00:40,	2.89it/s]
Power Factorization: 77%	383/500 [02:13<00:39,	2.97it/s]
Power Factorization: 77%	384/500 [02:13<00:39,	2.95it/s]
Power Factorization: 77%	385/500 [02:14<00:39,	2.94it/s]
Power Factorization: 77%	386/500 [02:14<00:38,	2.94it/s]
Power Factorization: 77%	387/500 [02:14<00:38,	2.91it/s]
Power Factorization: 78%	388/500 [02:15<00:38,	2.91it/s]
Power Factorization: 78%	389/500 [02:15<00:37,	2.97it/s]
Power Factorization: 78%	390/500 [02:15<00:38,	2.88it/s]
Power Factorization: 78%	391/500 [02:16<00:36,	2.96it/s]

Power Factorization: 78%	392/500 [02:16<00:36, 2.94it/s]
Power Factorization: 79%	393/500 [02:16<00:36, 2.96it/s]
Power Factorization: 79%	394/500 [02:17<00:35, 2.99it/s]
Power Factorization: 79%	395/500 [02:17<00:36, 2.90it/s]
Power Factorization: 79%	396/500 [02:18<00:36, 2.84it/s]
Power Factorization: 79%	397/500 [02:18<00:38, 2.69it/s]
Power Factorization: 80%	398/500 [02:18<00:37, 2.75it/s]
Power Factorization: 80%	399/500 [02:19<00:36, 2.74it/s]
Power Factorization: 80%	400/500 [02:19<00:37, 2.64it/s]
Power Factorization: 80%	401/500 [02:19<00:37, 2.62it/s]
Power Factorization: 80%	402/500 [02:20<00:36, 2.71it/s]
Power Factorization: 81%	403/500 [02:20<00:35, 2.76it/s]
Power Factorization: 81%	404/500 [02:21<00:37, 2.59it/s]
Power Factorization: 81%	405/500 [02:21<00:35, 2.68it/s]
Power Factorization: 81%	406/500 [02:21<00:35, 2.68it/s]
Power Factorization: 81%	407/500 [02:22<00:33, 2.75it/s]
Power Factorization: 82%	408/500 [02:22<00:34, 2.69it/s]
Power Factorization: 82%	409/500 [02:22<00:32, 2.79it/s]
Power Factorization: 82%	410/500 [02:23<00:31, 2.84it/s]
Power Factorization: 82%	411/500 [02:23<00:30, 2.90it/s]
Power Factorization: 82%	412/500 [02:23<00:31, 2.78it/s]
Power Factorization: 83%	413/500 [02:24<00:31, 2.77it/s]
Power Factorization: 83%	414/500 [02:24<00:30, 2.79it/s]
Power Factorization: 83%	415/500 [02:24<00:29, 2.89it/s]

Power Factorization: 83%	416/500 [02:25<00:29,	2.86it/s]
Power Factorization: 83%	417/500 [02:25<00:29,	2.83it/s]
Power Factorization: 84%	418/500 [02:26<00:29,	2.79it/s]
Power Factorization: 84%	419/500 [02:26<00:29,	2.72it/s]
Power Factorization: 84%	420/500 [02:26<00:28,	2.78it/s]
Power Factorization: 84%	421/500 [02:27<00:27,	2.87it/s]
Power Factorization: 84%	422/500 [02:27<00:27,	2.88it/s]
Power Factorization: 85%	423/500 [02:27<00:26,	2.86it/s]
Power Factorization: 85%	424/500 [02:28<00:27,	2.81it/s]
Power Factorization: 85%	425/500 [02:28<00:25,	2.93it/s]
Power Factorization: 85%	426/500 [02:28<00:24,	3.02it/s]
Power Factorization: 85%	427/500 [02:29<00:25,	2.82it/s]
Power Factorization: 86%	428/500 [02:29<00:24,	2.91it/s]
Power Factorization: 86%	429/500 [02:29<00:24,	2.88it/s]
Power Factorization: 86%	430/500 [02:30<00:23,	2.97it/s]
Power Factorization: 86%	431/500 [02:30<00:23,	2.95it/s]
Power Factorization: 86%	432/500 [02:30<00:22,	3.00it/s]
Power Factorization: 87%	433/500 [02:31<00:21,	3.08it/s]
Power Factorization: 87%	434/500 [02:31<00:21,	3.11it/s]
Power Factorization: 87%	435/500 [02:31<00:22,	2.92it/s]
Power Factorization: 87%	436/500 [02:32<00:23,	2.76it/s]
Power Factorization: 87%	437/500 [02:32<00:22,	2.79it/s]
Power Factorization: 88%	438/500 [02:32<00:20,	2.96it/s]
Power Factorization: 88%	439/500 [02:33<00:20,	3.02it/s]

Power Factorization: 88%	440/500 [02:33<00:19,	3.12it/s]
Power Factorization: 88%	441/500 [02:33<00:18,	3.18it/s]
Power Factorization: 88%	442/500 [02:34<00:19,	2.93it/s]
Power Factorization: 89%	443/500 [02:34<00:19,	2.90it/s]
Power Factorization: 89%	444/500 [02:34<00:19,	2.86it/s]
Power Factorization: 89%	445/500 [02:35<00:17,	3.06it/s]
Power Factorization: 89%	446/500 [02:35<00:17,	3.15it/s]
Power Factorization: 89%	447/500 [02:35<00:16,	3.15it/s]
Power Factorization: 90%	448/500 [02:36<00:16,	3.15it/s]
Power Factorization: 90%	449/500 [02:36<00:17,	2.99it/s]
Power Factorization: 90%	450/500 [02:36<00:16,	3.00it/s]
Power Factorization: 90%	451/500 [02:37<00:16,	2.93it/s]
Power Factorization: 90%	452/500 [02:37<00:15,	3.00it/s]
Power Factorization: 91%	453/500 [02:37<00:15,	3.03it/s]
Power Factorization: 91%	454/500 [02:38<00:15,	2.89it/s]
Power Factorization: 91%	455/500 [02:38<00:15,	2.94it/s]
Power Factorization: 91%	456/500 [02:38<00:14,	2.98it/s]
Power Factorization: 91%	457/500 [02:39<00:14,	2.92it/s]
Power Factorization: 92%	458/500 [02:39<00:13,	3.01it/s]
Power Factorization: 92%	459/500 [02:39<00:13,	2.98it/s]
Power Factorization: 92%	460/500 [02:40<00:13,	2.96it/s]
Power Factorization: 92%	461/500 [02:40<00:12,	3.01it/s]
Power Factorization: 92%	462/500 [02:40<00:12,	2.96it/s]
Power Factorization: 93%	463/500 [02:41<00:12,	2.91it/s]

Power Factorization: 93%	464/500 [02:41<00:12, 2.96it/s]
Power Factorization: 93%	465/500 [02:41<00:12, 2.86it/s]
Power Factorization: 93%	466/500 [02:42<00:11, 2.89it/s]
Power Factorization: 93%	467/500 [02:42<00:10, 3.02it/s]
Power Factorization: 94%	468/500 [02:42<00:10, 3.09it/s]
Power Factorization: 94%	469/500 [02:43<00:10, 3.05it/s]
Power Factorization: 94%	470/500 [02:43<00:09, 3.04it/s]
Power Factorization: 94%	471/500 [02:43<00:09, 3.02it/s]
Power Factorization: 94%	472/500 [02:44<00:09, 3.06it/s]
Power Factorization: 95%	473/500 [02:44<00:08, 3.03it/s]
Power Factorization: 95%	474/500 [02:44<00:08, 2.99it/s]
Power Factorization: 95%	475/500 [02:45<00:08, 2.83it/s]
Power Factorization: 95%	476/500 [02:45<00:08, 2.88it/s]
Power Factorization: 95%	477/500 [02:45<00:07, 2.96it/s]
Power Factorization: 96%	478/500 [02:46<00:07, 2.92it/s]
Power Factorization: 96%	479/500 [02:46<00:07, 2.88it/s]
Power Factorization: 96%	480/500 [02:47<00:06, 2.95it/s]
Power Factorization: 96%	481/500 [02:47<00:06, 2.97it/s]
Power Factorization: 96%	482/500 [02:47<00:06, 2.58it/s]
Power Factorization: 97%	483/500 [02:48<00:06, 2.70it/s]
Power Factorization: 97%	484/500 [02:48<00:05, 2.79it/s]
Power Factorization: 97%	485/500 [02:48<00:05, 2.84it/s]
Power Factorization: 97%	486/500 [02:49<00:04, 2.91it/s]
Power Factorization: 97%	487/500 [02:49<00:04, 3.01it/s]

Power Factorization: 98%| | 488/500 [02:49<00:03, 3.06it/s]

Power Factorization: 98%| | 489/500 [02:50<00:03, 3.10it/s]

Power Factorization: 98%| | 490/500 [02:50<00:03, 2.93it/s]

Power Factorization: 98%| | 491/500 [02:50<00:03, 2.93it/s]

Power Factorization: 98%| | 492/500 [02:51<00:02, 2.90it/s]

Power Factorization: 99%| | 493/500 [02:51<00:02, 2.84it/s]

Power Factorization: 99%| | 494/500 [02:51<00:02, 2.84it/s]

Power Factorization: 99%| | 495/500 [02:52<00:01, 2.96it/s]

Power Factorization: 99%| | 496/500 [02:52<00:01, 3.08it/s]

Power Factorization: 99%| | 497/500 [02:52<00:00, 3.11it/s]

Power Factorization: 100%| | 498/500 [02:53<00:00, 2.94it/s]

Power Factorization: 100%| | 499/500 [02:53<00:00, 2.96it/s]

Power Factorization: 100%| | 500/500 [02:53<00:00, 2.88it/s]

Cross Validation: 100%| | 5/5 [14:16<00:00, 171.37s/it]

Grid Search: 88%| | 14/16 [2:19:33<24:04, 722.27s/it]

Average RMS for k=20, lambda=1: 2.6639, Execution time: 171.3013s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:47, 2.98it/s]

Power Factorization: 0%| | 2/500 [00:00<02:42, 3.07it/s]

Power Factorization: 1%| | 3/500 [00:00<02:27, 3.38it/s]

Power Factorization: 1%| | 4/500 [00:01<02:31, 3.28it/s]

Power Factorization: 1%| | 5/500 [00:01<02:28, 3.33it/s]

Power Factorization: 1%| | 6/500 [00:01<02:46, 2.96it/s]

Power Factorization:	1%	7/500 [00:02<02:51, 2.87it/s]
Power Factorization:	2%	8/500 [00:02<02:58, 2.76it/s]
Power Factorization:	2%	9/500 [00:03<02:51, 2.86it/s]
Power Factorization:	2%	10/500 [00:03<02:49, 2.89it/s]
Power Factorization:	2%	11/500 [00:03<02:42, 3.01it/s]
Power Factorization:	2%	12/500 [00:03<02:37, 3.10it/s]
Power Factorization:	3%	13/500 [00:04<02:32, 3.18it/s]
Power Factorization:	3%	14/500 [00:04<02:30, 3.24it/s]
Power Factorization:	3%	15/500 [00:04<02:33, 3.15it/s]
Power Factorization:	3%	16/500 [00:05<02:40, 3.02it/s]
Power Factorization:	3%	17/500 [00:05<02:41, 2.99it/s]
Power Factorization:	4%	18/500 [00:05<02:38, 3.05it/s]
Power Factorization:	4%	19/500 [00:06<02:54, 2.76it/s]
Power Factorization:	4%	20/500 [00:06<02:51, 2.80it/s]
Power Factorization:	4%	21/500 [00:07<02:43, 2.92it/s]
Power Factorization:	4%	22/500 [00:07<02:45, 2.89it/s]
Power Factorization:	5%	23/500 [00:07<02:42, 2.93it/s]
Power Factorization:	5%	24/500 [00:08<02:43, 2.91it/s]
Power Factorization:	5%	25/500 [00:08<02:37, 3.01it/s]
Power Factorization:	5%	26/500 [00:08<02:32, 3.12it/s]
Power Factorization:	5%	27/500 [00:08<02:35, 3.04it/s]
Power Factorization:	6%	28/500 [00:09<02:32, 3.10it/s]
Power Factorization:	6%	29/500 [00:09<02:29, 3.14it/s]
Power Factorization:	6%	30/500 [00:09<02:32, 3.08it/s]

Power Factorization:	6%	31/500 [00:10<02:34, 3.03it/s]
Power Factorization:	6%	32/500 [00:10<02:34, 3.02it/s]
Power Factorization:	7%	33/500 [00:10<02:31, 3.09it/s]
Power Factorization:	7%	34/500 [00:11<02:29, 3.11it/s]
Power Factorization:	7%	35/500 [00:11<02:27, 3.15it/s]
Power Factorization:	7%	36/500 [00:11<02:33, 3.02it/s]
Power Factorization:	7%	37/500 [00:12<02:37, 2.95it/s]
Power Factorization:	8%	38/500 [00:12<02:32, 3.03it/s]
Power Factorization:	8%	39/500 [00:12<02:31, 3.05it/s]
Power Factorization:	8%	40/500 [00:13<02:36, 2.93it/s]
Power Factorization:	8%	41/500 [00:13<02:36, 2.93it/s]
Power Factorization:	8%	42/500 [00:13<02:33, 2.98it/s]
Power Factorization:	9%	43/500 [00:14<02:37, 2.90it/s]
Power Factorization:	9%	44/500 [00:14<02:37, 2.89it/s]
Power Factorization:	9%	45/500 [00:15<02:39, 2.85it/s]
Power Factorization:	9%	46/500 [00:15<02:27, 3.08it/s]
Power Factorization:	9%	47/500 [00:15<02:33, 2.96it/s]
Power Factorization:	10%	48/500 [00:15<02:34, 2.93it/s]
Power Factorization:	10%	49/500 [00:16<02:32, 2.96it/s]
Power Factorization:	10%	50/500 [00:16<02:36, 2.87it/s]
Power Factorization:	10%	51/500 [00:17<02:32, 2.94it/s]
Power Factorization:	10%	52/500 [00:17<02:28, 3.02it/s]
Power Factorization:	11%	53/500 [00:17<02:27, 3.03it/s]
Power Factorization:	11%	54/500 [00:18<02:31, 2.95it/s]

Power Factorization: 11%	55/500 [00:18<02:30, 2.96it/s]
Power Factorization: 11%	56/500 [00:18<02:37, 2.82it/s]
Power Factorization: 11%	57/500 [00:19<02:38, 2.80it/s]
Power Factorization: 12%	58/500 [00:19<02:31, 2.91it/s]
Power Factorization: 12%	59/500 [00:19<02:32, 2.90it/s]
Power Factorization: 12%	60/500 [00:20<02:24, 3.04it/s]
Power Factorization: 12%	61/500 [00:20<02:23, 3.06it/s]
Power Factorization: 12%	62/500 [00:20<02:24, 3.03it/s]
Power Factorization: 13%	63/500 [00:21<02:27, 2.97it/s]
Power Factorization: 13%	64/500 [00:21<02:26, 2.98it/s]
Power Factorization: 13%	65/500 [00:21<02:21, 3.07it/s]
Power Factorization: 13%	66/500 [00:22<02:21, 3.07it/s]
Power Factorization: 13%	67/500 [00:22<02:33, 2.82it/s]
Power Factorization: 14%	68/500 [00:22<02:31, 2.85it/s]
Power Factorization: 14%	69/500 [00:23<02:24, 2.98it/s]
Power Factorization: 14%	70/500 [00:23<02:27, 2.91it/s]
Power Factorization: 14%	71/500 [00:23<02:26, 2.92it/s]
Power Factorization: 14%	72/500 [00:24<02:19, 3.06it/s]
Power Factorization: 15%	73/500 [00:24<02:16, 3.14it/s]
Power Factorization: 15%	74/500 [00:24<02:22, 3.00it/s]
Power Factorization: 15%	75/500 [00:25<02:30, 2.83it/s]
Power Factorization: 15%	76/500 [00:25<02:32, 2.78it/s]
Power Factorization: 15%	77/500 [00:25<02:24, 2.93it/s]
Power Factorization: 16%	78/500 [00:26<02:17, 3.07it/s]

Power Factorization: 16%	79/500 [00:26<02:15,	3.11it/s]
Power Factorization: 16%	80/500 [00:26<02:21,	2.98it/s]
Power Factorization: 16%	81/500 [00:27<02:20,	2.98it/s]
Power Factorization: 16%	82/500 [00:27<02:16,	3.05it/s]
Power Factorization: 17%	83/500 [00:27<02:20,	2.96it/s]
Power Factorization: 17%	84/500 [00:28<02:21,	2.94it/s]
Power Factorization: 17%	85/500 [00:28<02:20,	2.96it/s]
Power Factorization: 17%	86/500 [00:28<02:18,	3.00it/s]
Power Factorization: 17%	87/500 [00:29<02:14,	3.07it/s]
Power Factorization: 18%	88/500 [00:29<02:10,	3.15it/s]
Power Factorization: 18%	89/500 [00:29<02:09,	3.18it/s]
Power Factorization: 18%	90/500 [00:30<02:11,	3.12it/s]
Power Factorization: 18%	91/500 [00:30<02:15,	3.02it/s]
Power Factorization: 18%	92/500 [00:30<02:12,	3.07it/s]
Power Factorization: 19%	93/500 [00:31<02:15,	3.01it/s]
Power Factorization: 19%	94/500 [00:31<02:10,	3.11it/s]
Power Factorization: 19%	95/500 [00:31<02:08,	3.14it/s]
Power Factorization: 19%	96/500 [00:32<02:12,	3.04it/s]
Power Factorization: 19%	97/500 [00:32<02:07,	3.16it/s]
Power Factorization: 20%	98/500 [00:32<02:07,	3.16it/s]
Power Factorization: 20%	99/500 [00:32<02:09,	3.11it/s]
Power Factorization: 20%	100/500 [00:33<02:06,	3.17it/s]
Power Factorization: 20%	101/500 [00:33<02:12,	3.00it/s]
Power Factorization: 20%	102/500 [00:34<02:21,	2.82it/s]

Power Factorization: 21%	103/500 [00:34<02:21, 2.80it/s]
Power Factorization: 21%	104/500 [00:34<02:17, 2.88it/s]
Power Factorization: 21%	105/500 [00:35<02:17, 2.87it/s]
Power Factorization: 21%	106/500 [00:35<02:19, 2.83it/s]
Power Factorization: 21%	107/500 [00:35<02:14, 2.91it/s]
Power Factorization: 22%	108/500 [00:36<02:10, 3.00it/s]
Power Factorization: 22%	109/500 [00:36<02:12, 2.95it/s]
Power Factorization: 22%	110/500 [00:36<02:13, 2.92it/s]
Power Factorization: 22%	111/500 [00:37<02:13, 2.91it/s]
Power Factorization: 22%	112/500 [00:37<02:13, 2.91it/s]
Power Factorization: 23%	113/500 [00:37<02:20, 2.75it/s]
Power Factorization: 23%	114/500 [00:38<02:16, 2.83it/s]
Power Factorization: 23%	115/500 [00:38<02:10, 2.95it/s]
Power Factorization: 23%	116/500 [00:38<02:08, 3.00it/s]
Power Factorization: 23%	117/500 [00:39<02:06, 3.03it/s]
Power Factorization: 24%	118/500 [00:39<02:06, 3.03it/s]
Power Factorization: 24%	119/500 [00:39<02:05, 3.03it/s]
Power Factorization: 24%	120/500 [00:40<02:05, 3.03it/s]
Power Factorization: 24%	121/500 [00:40<02:03, 3.07it/s]
Power Factorization: 24%	122/500 [00:40<02:09, 2.93it/s]
Power Factorization: 25%	123/500 [00:41<02:11, 2.87it/s]
Power Factorization: 25%	124/500 [00:41<02:10, 2.88it/s]
Power Factorization: 25%	125/500 [00:41<02:05, 2.98it/s]
Power Factorization: 25%	126/500 [00:42<02:06, 2.96it/s]

Power Factorization: 25%	127/500 [00:42<02:05, 2.98it/s]
Power Factorization: 26%	128/500 [00:42<02:05, 2.98it/s]
Power Factorization: 26%	129/500 [00:43<02:08, 2.90it/s]
Power Factorization: 26%	130/500 [00:43<02:06, 2.92it/s]
Power Factorization: 26%	131/500 [00:43<02:07, 2.90it/s]
Power Factorization: 26%	132/500 [00:44<02:03, 2.97it/s]
Power Factorization: 27%	133/500 [00:44<02:01, 3.02it/s]
Power Factorization: 27%	134/500 [00:44<02:00, 3.04it/s]
Power Factorization: 27%	135/500 [00:45<01:58, 3.08it/s]
Power Factorization: 27%	136/500 [00:45<01:57, 3.10it/s]
Power Factorization: 27%	137/500 [00:45<01:54, 3.16it/s]
Power Factorization: 28%	138/500 [00:46<01:56, 3.10it/s]
Power Factorization: 28%	139/500 [00:46<01:53, 3.17it/s]
Power Factorization: 28%	140/500 [00:46<01:56, 3.08it/s]
Power Factorization: 28%	141/500 [00:47<01:54, 3.13it/s]
Power Factorization: 28%	142/500 [00:47<01:55, 3.11it/s]
Power Factorization: 29%	143/500 [00:47<01:52, 3.16it/s]
Power Factorization: 29%	144/500 [00:48<01:51, 3.20it/s]
Power Factorization: 29%	145/500 [00:48<01:55, 3.08it/s]
Power Factorization: 29%	146/500 [00:48<01:53, 3.13it/s]
Power Factorization: 29%	147/500 [00:49<01:53, 3.11it/s]
Power Factorization: 30%	148/500 [00:49<01:56, 3.02it/s]
Power Factorization: 30%	149/500 [00:49<01:57, 2.99it/s]
Power Factorization: 30%	150/500 [00:50<01:59, 2.94it/s]

Power Factorization: 30%	151/500 [00:50<01:59, 2.93it/s]
Power Factorization: 30%	152/500 [00:50<02:01, 2.87it/s]
Power Factorization: 31%	153/500 [00:51<01:59, 2.91it/s]
Power Factorization: 31%	154/500 [00:51<01:58, 2.93it/s]
Power Factorization: 31%	155/500 [00:51<01:56, 2.95it/s]
Power Factorization: 31%	156/500 [00:52<01:56, 2.95it/s]
Power Factorization: 31%	157/500 [00:52<01:55, 2.98it/s]
Power Factorization: 32%	158/500 [00:52<01:50, 3.09it/s]
Power Factorization: 32%	159/500 [00:53<01:53, 3.00it/s]
Power Factorization: 32%	160/500 [00:53<01:52, 3.01it/s]
Power Factorization: 32%	161/500 [00:53<01:50, 3.06it/s]
Power Factorization: 32%	162/500 [00:54<01:51, 3.04it/s]
Power Factorization: 33%	163/500 [00:54<01:53, 2.97it/s]
Power Factorization: 33%	164/500 [00:54<01:52, 3.00it/s]
Power Factorization: 33%	165/500 [00:55<01:54, 2.91it/s]
Power Factorization: 33%	166/500 [00:55<01:54, 2.92it/s]
Power Factorization: 33%	167/500 [00:55<01:53, 2.93it/s]
Power Factorization: 34%	168/500 [00:56<01:50, 3.01it/s]
Power Factorization: 34%	169/500 [00:56<01:48, 3.05it/s]
Power Factorization: 34%	170/500 [00:56<01:45, 3.12it/s]
Power Factorization: 34%	171/500 [00:57<01:43, 3.17it/s]
Power Factorization: 34%	172/500 [00:57<01:42, 3.19it/s]
Power Factorization: 35%	173/500 [00:57<01:41, 3.22it/s]
Power Factorization: 35%	174/500 [00:58<01:45, 3.10it/s]

Power Factorization: 35%	175/500 [00:58<01:48, 3.00it/s]
Power Factorization: 35%	176/500 [00:58<01:45, 3.07it/s]
Power Factorization: 35%	177/500 [00:58<01:44, 3.10it/s]
Power Factorization: 36%	178/500 [00:59<01:42, 3.15it/s]
Power Factorization: 36%	179/500 [00:59<01:43, 3.09it/s]
Power Factorization: 36%	180/500 [00:59<01:43, 3.08it/s]
Power Factorization: 36%	181/500 [01:00<01:46, 3.01it/s]
Power Factorization: 36%	182/500 [01:00<01:45, 3.00it/s]
Power Factorization: 37%	183/500 [01:00<01:42, 3.09it/s]
Power Factorization: 37%	184/500 [01:01<01:39, 3.17it/s]
Power Factorization: 37%	185/500 [01:01<01:41, 3.12it/s]
Power Factorization: 37%	186/500 [01:01<01:38, 3.19it/s]
Power Factorization: 37%	187/500 [01:02<01:42, 3.04it/s]
Power Factorization: 38%	188/500 [01:02<01:43, 3.02it/s]
Power Factorization: 38%	189/500 [01:02<01:45, 2.96it/s]
Power Factorization: 38%	190/500 [01:03<01:44, 2.96it/s]
Power Factorization: 38%	191/500 [01:03<01:42, 3.02it/s]
Power Factorization: 38%	192/500 [01:03<01:41, 3.03it/s]
Power Factorization: 39%	193/500 [01:04<01:39, 3.08it/s]
Power Factorization: 39%	194/500 [01:04<01:43, 2.97it/s]
Power Factorization: 39%	195/500 [01:04<01:41, 3.02it/s]
Power Factorization: 39%	196/500 [01:05<01:42, 2.97it/s]
Power Factorization: 39%	197/500 [01:05<01:41, 3.00it/s]
Power Factorization: 40%	198/500 [01:05<01:42, 2.95it/s]

Power Factorization: 40%	199/500 [01:06<01:44,	2.88it/s]
Power Factorization: 40%	200/500 [01:06<01:40,	2.99it/s]
Power Factorization: 40%	201/500 [01:06<01:38,	3.05it/s]
Power Factorization: 40%	202/500 [01:07<01:37,	3.05it/s]
Power Factorization: 41%	203/500 [01:07<01:38,	3.00it/s]
Power Factorization: 41%	204/500 [01:07<01:39,	2.97it/s]
Power Factorization: 41%	205/500 [01:08<01:37,	3.02it/s]
Power Factorization: 41%	206/500 [01:08<01:34,	3.12it/s]
Power Factorization: 41%	207/500 [01:08<01:33,	3.13it/s]
Power Factorization: 42%	208/500 [01:09<01:35,	3.06it/s]
Power Factorization: 42%	209/500 [01:09<01:35,	3.03it/s]
Power Factorization: 42%	210/500 [01:09<01:36,	2.99it/s]
Power Factorization: 42%	211/500 [01:10<01:34,	3.04it/s]
Power Factorization: 42%	212/500 [01:10<01:34,	3.04it/s]
Power Factorization: 43%	213/500 [01:10<01:37,	2.94it/s]
Power Factorization: 43%	214/500 [01:11<01:51,	2.57it/s]
Power Factorization: 43%	215/500 [01:11<01:48,	2.63it/s]
Power Factorization: 43%	216/500 [01:12<01:44,	2.71it/s]
Power Factorization: 43%	217/500 [01:12<01:43,	2.74it/s]
Power Factorization: 44%	218/500 [01:12<01:40,	2.81it/s]
Power Factorization: 44%	219/500 [01:13<01:35,	2.94it/s]
Power Factorization: 44%	220/500 [01:13<01:35,	2.94it/s]
Power Factorization: 44%	221/500 [01:13<01:40,	2.78it/s]
Power Factorization: 44%	222/500 [01:14<01:39,	2.80it/s]

Power Factorization: 45%	223/500 [01:14<01:36, 2.88it/s]
Power Factorization: 45%	224/500 [01:14<01:33, 2.94it/s]
Power Factorization: 45%	225/500 [01:15<01:34, 2.90it/s]
Power Factorization: 45%	226/500 [01:15<01:32, 2.95it/s]
Power Factorization: 45%	227/500 [01:15<01:39, 2.76it/s]
Power Factorization: 46%	228/500 [01:16<01:37, 2.79it/s]
Power Factorization: 46%	229/500 [01:16<01:30, 3.00it/s]
Power Factorization: 46%	230/500 [01:16<01:30, 3.00it/s]
Power Factorization: 46%	231/500 [01:17<01:26, 3.11it/s]
Power Factorization: 46%	232/500 [01:17<01:29, 2.99it/s]
Power Factorization: 47%	233/500 [01:17<01:27, 3.04it/s]
Power Factorization: 47%	234/500 [01:18<01:26, 3.07it/s]
Power Factorization: 47%	235/500 [01:18<01:24, 3.13it/s]
Power Factorization: 47%	236/500 [01:18<01:25, 3.09it/s]
Power Factorization: 47%	237/500 [01:19<01:23, 3.16it/s]
Power Factorization: 48%	238/500 [01:19<01:24, 3.10it/s]
Power Factorization: 48%	239/500 [01:19<01:25, 3.04it/s]
Power Factorization: 48%	240/500 [01:20<01:25, 3.03it/s]
Power Factorization: 48%	241/500 [01:20<01:24, 3.08it/s]
Power Factorization: 48%	242/500 [01:20<01:25, 3.02it/s]
Power Factorization: 49%	243/500 [01:21<01:25, 3.01it/s]
Power Factorization: 49%	244/500 [01:21<01:28, 2.91it/s]
Power Factorization: 49%	245/500 [01:21<01:28, 2.89it/s]
Power Factorization: 49%	246/500 [01:22<01:25, 2.97it/s]

Power Factorization: 49%	247/500 [01:22<01:24, 3.01it/s]
Power Factorization: 50%	248/500 [01:22<01:22, 3.04it/s]
Power Factorization: 50%	249/500 [01:23<01:21, 3.07it/s]
Power Factorization: 50%	250/500 [01:23<01:19, 3.13it/s]
Power Factorization: 50%	251/500 [01:23<01:19, 3.15it/s]
Power Factorization: 50%	252/500 [01:24<01:21, 3.04it/s]
Power Factorization: 51%	253/500 [01:24<01:21, 3.05it/s]
Power Factorization: 51%	254/500 [01:24<01:23, 2.94it/s]
Power Factorization: 51%	255/500 [01:25<01:22, 2.97it/s]
Power Factorization: 51%	256/500 [01:25<01:19, 3.06it/s]
Power Factorization: 51%	257/500 [01:25<01:19, 3.07it/s]
Power Factorization: 52%	258/500 [01:26<01:20, 2.99it/s]
Power Factorization: 52%	259/500 [01:26<01:20, 3.00it/s]
Power Factorization: 52%	260/500 [01:26<01:21, 2.94it/s]
Power Factorization: 52%	261/500 [01:27<01:20, 2.99it/s]
Power Factorization: 52%	262/500 [01:27<01:18, 3.04it/s]
Power Factorization: 53%	263/500 [01:27<01:17, 3.08it/s]
Power Factorization: 53%	264/500 [01:28<01:17, 3.06it/s]
Power Factorization: 53%	265/500 [01:28<01:14, 3.15it/s]
Power Factorization: 53%	266/500 [01:28<01:14, 3.12it/s]
Power Factorization: 53%	267/500 [01:29<01:13, 3.17it/s]
Power Factorization: 54%	268/500 [01:29<01:16, 3.02it/s]
Power Factorization: 54%	269/500 [01:29<01:13, 3.13it/s]
Power Factorization: 54%	270/500 [01:29<01:13, 3.13it/s]

Power Factorization: 54%	271/500 [01:30<01:12, 3.17it/s]
Power Factorization: 54%	272/500 [01:30<01:17, 2.95it/s]
Power Factorization: 55%	273/500 [01:31<01:19, 2.86it/s]
Power Factorization: 55%	274/500 [01:31<01:16, 2.95it/s]
Power Factorization: 55%	275/500 [01:31<01:16, 2.94it/s]
Power Factorization: 55%	276/500 [01:32<01:17, 2.90it/s]
Power Factorization: 55%	277/500 [01:32<01:14, 3.01it/s]
Power Factorization: 56%	278/500 [01:32<01:17, 2.86it/s]
Power Factorization: 56%	279/500 [01:33<01:23, 2.64it/s]
Power Factorization: 56%	280/500 [01:33<01:20, 2.73it/s]
Power Factorization: 56%	281/500 [01:33<01:17, 2.84it/s]
Power Factorization: 56%	282/500 [01:34<01:13, 2.98it/s]
Power Factorization: 57%	283/500 [01:34<01:10, 3.09it/s]
Power Factorization: 57%	284/500 [01:34<01:12, 2.99it/s]
Power Factorization: 57%	285/500 [01:35<01:13, 2.94it/s]
Power Factorization: 57%	286/500 [01:35<01:12, 2.96it/s]
Power Factorization: 57%	287/500 [01:35<01:11, 2.96it/s]
Power Factorization: 58%	288/500 [01:36<01:09, 3.04it/s]
Power Factorization: 58%	289/500 [01:36<01:09, 3.05it/s]
Power Factorization: 58%	290/500 [01:36<01:11, 2.95it/s]
Power Factorization: 58%	291/500 [01:37<01:10, 2.95it/s]
Power Factorization: 58%	292/500 [01:37<01:11, 2.92it/s]
Power Factorization: 59%	293/500 [01:37<01:10, 2.95it/s]
Power Factorization: 59%	294/500 [01:38<01:09, 2.97it/s]

Power Factorization: 59%	295/500 [01:38<01:08, 2.99it/s]
Power Factorization: 59%	296/500 [01:38<01:08, 2.97it/s]
Power Factorization: 59%	297/500 [01:39<01:08, 2.97it/s]
Power Factorization: 60%	298/500 [01:39<01:08, 2.95it/s]
Power Factorization: 60%	299/500 [01:39<01:09, 2.88it/s]
Power Factorization: 60%	300/500 [01:40<01:07, 2.96it/s]
Power Factorization: 60%	301/500 [01:40<01:05, 3.04it/s]
Power Factorization: 60%	302/500 [01:40<01:03, 3.12it/s]
Power Factorization: 61%	303/500 [01:41<01:01, 3.22it/s]
Power Factorization: 61%	304/500 [01:41<01:01, 3.18it/s]
Power Factorization: 61%	305/500 [01:41<00:58, 3.31it/s]
Power Factorization: 61%	306/500 [01:42<00:58, 3.29it/s]
Power Factorization: 61%	307/500 [01:42<01:02, 3.08it/s]
Power Factorization: 62%	308/500 [01:42<01:03, 3.04it/s]
Power Factorization: 62%	309/500 [01:43<01:02, 3.05it/s]
Power Factorization: 62%	310/500 [01:43<01:02, 3.05it/s]
Power Factorization: 62%	311/500 [01:43<01:01, 3.05it/s]
Power Factorization: 62%	312/500 [01:44<01:05, 2.87it/s]
Power Factorization: 63%	313/500 [01:44<01:06, 2.83it/s]
Power Factorization: 63%	314/500 [01:44<01:05, 2.85it/s]
Power Factorization: 63%	315/500 [01:45<01:02, 2.95it/s]
Power Factorization: 63%	316/500 [01:45<01:03, 2.92it/s]
Power Factorization: 63%	317/500 [01:45<01:04, 2.84it/s]
Power Factorization: 64%	318/500 [01:46<01:02, 2.90it/s]

Power Factorization: 64%	319/500 [01:46<01:01, 2.95it/s]
Power Factorization: 64%	320/500 [01:46<00:59, 3.00it/s]
Power Factorization: 64%	321/500 [01:47<00:58, 3.05it/s]
Power Factorization: 64%	322/500 [01:47<01:02, 2.86it/s]
Power Factorization: 65%	323/500 [01:47<01:00, 2.91it/s]
Power Factorization: 65%	324/500 [01:48<00:59, 2.94it/s]
Power Factorization: 65%	325/500 [01:48<00:58, 2.99it/s]
Power Factorization: 65%	326/500 [01:49<01:04, 2.69it/s]
Power Factorization: 65%	327/500 [01:49<01:06, 2.61it/s]
Power Factorization: 66%	328/500 [01:49<01:05, 2.65it/s]
Power Factorization: 66%	329/500 [01:50<01:00, 2.83it/s]
Power Factorization: 66%	330/500 [01:50<00:58, 2.91it/s]
Power Factorization: 66%	331/500 [01:50<00:57, 2.96it/s]
Power Factorization: 66%	332/500 [01:51<00:55, 3.02it/s]
Power Factorization: 67%	333/500 [01:51<00:55, 3.01it/s]
Power Factorization: 67%	334/500 [01:51<00:56, 2.96it/s]
Power Factorization: 67%	335/500 [01:52<00:56, 2.95it/s]
Power Factorization: 67%	336/500 [01:52<00:55, 2.96it/s]
Power Factorization: 67%	337/500 [01:52<00:54, 3.01it/s]
Power Factorization: 68%	338/500 [01:53<00:52, 3.06it/s]
Power Factorization: 68%	339/500 [01:53<00:52, 3.05it/s]
Power Factorization: 68%	340/500 [01:53<00:53, 2.98it/s]
Power Factorization: 68%	341/500 [01:54<00:58, 2.72it/s]
Power Factorization: 68%	342/500 [01:54<00:56, 2.81it/s]

Power Factorization: 69%	343/500 [01:54<00:55, 2.85it/s]
Power Factorization: 69%	344/500 [01:55<00:53, 2.89it/s]
Power Factorization: 69%	345/500 [01:55<00:55, 2.82it/s]
Power Factorization: 69%	346/500 [01:55<00:56, 2.71it/s]
Power Factorization: 69%	347/500 [01:56<00:54, 2.83it/s]
Power Factorization: 70%	348/500 [01:56<00:52, 2.91it/s]
Power Factorization: 70%	349/500 [01:56<00:51, 2.93it/s]
Power Factorization: 70%	350/500 [01:57<00:51, 2.89it/s]
Power Factorization: 70%	351/500 [01:57<00:50, 2.94it/s]
Power Factorization: 70%	352/500 [01:57<00:49, 2.98it/s]
Power Factorization: 71%	353/500 [01:58<00:48, 3.04it/s]
Power Factorization: 71%	354/500 [01:58<00:47, 3.05it/s]
Power Factorization: 71%	355/500 [01:58<00:49, 2.93it/s]
Power Factorization: 71%	356/500 [01:59<00:48, 2.99it/s]
Power Factorization: 71%	357/500 [01:59<00:48, 2.95it/s]
Power Factorization: 72%	358/500 [01:59<00:47, 3.00it/s]
Power Factorization: 72%	359/500 [02:00<00:47, 2.94it/s]
Power Factorization: 72%	360/500 [02:00<00:46, 3.02it/s]
Power Factorization: 72%	361/500 [02:00<00:45, 3.03it/s]
Power Factorization: 72%	362/500 [02:01<00:45, 3.06it/s]
Power Factorization: 73%	363/500 [02:01<00:44, 3.06it/s]
Power Factorization: 73%	364/500 [02:01<00:42, 3.17it/s]
Power Factorization: 73%	365/500 [02:02<00:42, 3.15it/s]
Power Factorization: 73%	366/500 [02:02<00:40, 3.28it/s]

Power Factorization: 73%	367/500 [02:02<00:43,	3.06it/s]
Power Factorization: 74%	368/500 [02:03<00:43,	3.00it/s]
Power Factorization: 74%	369/500 [02:03<00:42,	3.10it/s]
Power Factorization: 74%	370/500 [02:03<00:41,	3.13it/s]
Power Factorization: 74%	371/500 [02:04<00:41,	3.13it/s]
Power Factorization: 74%	372/500 [02:04<00:42,	2.98it/s]
Power Factorization: 75%	373/500 [02:04<00:41,	3.08it/s]
Power Factorization: 75%	374/500 [02:05<00:40,	3.08it/s]
Power Factorization: 75%	375/500 [02:05<00:40,	3.09it/s]
Power Factorization: 75%	376/500 [02:05<00:38,	3.18it/s]
Power Factorization: 75%	377/500 [02:06<00:40,	3.05it/s]
Power Factorization: 76%	378/500 [02:06<00:41,	2.93it/s]
Power Factorization: 76%	379/500 [02:06<00:41,	2.91it/s]
Power Factorization: 76%	380/500 [02:07<00:41,	2.91it/s]
Power Factorization: 76%	381/500 [02:07<00:40,	2.93it/s]
Power Factorization: 76%	382/500 [02:07<00:38,	3.03it/s]
Power Factorization: 77%	383/500 [02:08<00:37,	3.12it/s]
Power Factorization: 77%	384/500 [02:08<00:40,	2.84it/s]
Power Factorization: 77%	385/500 [02:08<00:39,	2.94it/s]
Power Factorization: 77%	386/500 [02:09<00:40,	2.82it/s]
Power Factorization: 77%	387/500 [02:09<00:40,	2.81it/s]
Power Factorization: 78%	388/500 [02:09<00:40,	2.77it/s]
Power Factorization: 78%	389/500 [02:10<00:39,	2.84it/s]
Power Factorization: 78%	390/500 [02:10<00:36,	2.97it/s]

Power Factorization: 78%	391/500 [02:10<00:35,	3.07it/s]
Power Factorization: 78%	392/500 [02:11<00:34,	3.16it/s]
Power Factorization: 79%	393/500 [02:11<00:34,	3.10it/s]
Power Factorization: 79%	394/500 [02:11<00:34,	3.06it/s]
Power Factorization: 79%	395/500 [02:12<00:33,	3.13it/s]
Power Factorization: 79%	396/500 [02:12<00:33,	3.06it/s]
Power Factorization: 79%	397/500 [02:12<00:32,	3.15it/s]
Power Factorization: 80%	398/500 [02:13<00:32,	3.13it/s]
Power Factorization: 80%	399/500 [02:13<00:33,	3.04it/s]
Power Factorization: 80%	400/500 [02:13<00:32,	3.07it/s]
Power Factorization: 80%	401/500 [02:14<00:32,	3.04it/s]
Power Factorization: 80%	402/500 [02:14<00:32,	3.00it/s]
Power Factorization: 81%	403/500 [02:14<00:32,	2.99it/s]
Power Factorization: 81%	404/500 [02:15<00:31,	3.01it/s]
Power Factorization: 81%	405/500 [02:15<00:31,	3.06it/s]
Power Factorization: 81%	406/500 [02:15<00:30,	3.11it/s]
Power Factorization: 81%	407/500 [02:16<00:31,	2.99it/s]
Power Factorization: 82%	408/500 [02:16<00:30,	3.04it/s]
Power Factorization: 82%	409/500 [02:16<00:30,	3.02it/s]
Power Factorization: 82%	410/500 [02:17<00:29,	3.05it/s]
Power Factorization: 82%	411/500 [02:17<00:29,	3.05it/s]
Power Factorization: 82%	412/500 [02:17<00:29,	3.03it/s]
Power Factorization: 83%	413/500 [02:18<00:28,	3.01it/s]
Power Factorization: 83%	414/500 [02:18<00:28,	3.03it/s]

Power Factorization: 83%	415/500 [02:18<00:27,	3.05it/s]
Power Factorization: 83%	416/500 [02:19<00:27,	3.05it/s]
Power Factorization: 83%	417/500 [02:19<00:27,	3.04it/s]
Power Factorization: 84%	418/500 [02:19<00:27,	2.94it/s]
Power Factorization: 84%	419/500 [02:20<00:27,	2.99it/s]
Power Factorization: 84%	420/500 [02:20<00:26,	2.97it/s]
Power Factorization: 84%	421/500 [02:20<00:26,	3.00it/s]
Power Factorization: 84%	422/500 [02:21<00:25,	3.10it/s]
Power Factorization: 85%	423/500 [02:21<00:24,	3.10it/s]
Power Factorization: 85%	424/500 [02:21<00:23,	3.23it/s]
Power Factorization: 85%	425/500 [02:21<00:24,	3.11it/s]
Power Factorization: 85%	426/500 [02:22<00:25,	2.94it/s]
Power Factorization: 85%	427/500 [02:22<00:25,	2.89it/s]
Power Factorization: 86%	428/500 [02:23<00:26,	2.74it/s]
Power Factorization: 86%	429/500 [02:23<00:25,	2.78it/s]
Power Factorization: 86%	430/500 [02:23<00:24,	2.84it/s]
Power Factorization: 86%	431/500 [02:24<00:23,	2.96it/s]
Power Factorization: 86%	432/500 [02:24<00:22,	3.06it/s]
Power Factorization: 87%	433/500 [02:24<00:21,	3.06it/s]
Power Factorization: 87%	434/500 [02:25<00:21,	3.06it/s]
Power Factorization: 87%	435/500 [02:25<00:22,	2.94it/s]
Power Factorization: 87%	436/500 [02:25<00:21,	3.00it/s]
Power Factorization: 87%	437/500 [02:26<00:20,	3.06it/s]
Power Factorization: 88%	438/500 [02:26<00:20,	3.10it/s]

Power Factorization: 88%	439/500 [02:26<00:19,	3.07it/s]
Power Factorization: 88%	440/500 [02:27<00:19,	3.03it/s]
Power Factorization: 88%	441/500 [02:27<00:19,	3.08it/s]
Power Factorization: 88%	442/500 [02:27<00:18,	3.06it/s]
Power Factorization: 89%	443/500 [02:28<00:18,	3.00it/s]
Power Factorization: 89%	444/500 [02:28<00:18,	3.00it/s]
Power Factorization: 89%	445/500 [02:28<00:18,	2.96it/s]
Power Factorization: 89%	446/500 [02:29<00:17,	3.05it/s]
Power Factorization: 89%	447/500 [02:29<00:17,	2.96it/s]
Power Factorization: 90%	448/500 [02:29<00:17,	2.94it/s]
Power Factorization: 90%	449/500 [02:30<00:17,	2.95it/s]
Power Factorization: 90%	450/500 [02:30<00:17,	2.82it/s]
Power Factorization: 90%	451/500 [02:30<00:17,	2.80it/s]
Power Factorization: 90%	452/500 [02:31<00:17,	2.75it/s]
Power Factorization: 91%	453/500 [02:31<00:17,	2.76it/s]
Power Factorization: 91%	454/500 [02:31<00:17,	2.65it/s]
Power Factorization: 91%	455/500 [02:32<00:16,	2.74it/s]
Power Factorization: 91%	456/500 [02:32<00:15,	2.83it/s]
Power Factorization: 91%	457/500 [02:33<00:16,	2.59it/s]
Power Factorization: 92%	458/500 [02:33<00:15,	2.65it/s]
Power Factorization: 92%	459/500 [02:33<00:14,	2.75it/s]
Power Factorization: 92%	460/500 [02:34<00:14,	2.82it/s]
Power Factorization: 92%	461/500 [02:34<00:13,	2.90it/s]
Power Factorization: 92%	462/500 [02:34<00:12,	2.97it/s]

Power Factorization: 93%	463/500 [02:35<00:12, 2.94it/s]
Power Factorization: 93%	464/500 [02:35<00:12, 2.94it/s]
Power Factorization: 93%	465/500 [02:35<00:11, 2.92it/s]
Power Factorization: 93%	466/500 [02:36<00:11, 2.93it/s]
Power Factorization: 93%	467/500 [02:36<00:11, 2.99it/s]
Power Factorization: 94%	468/500 [02:36<00:10, 2.95it/s]
Power Factorization: 94%	469/500 [02:37<00:10, 2.94it/s]
Power Factorization: 94%	470/500 [02:37<00:10, 2.93it/s]
Power Factorization: 94%	471/500 [02:37<00:09, 2.94it/s]
Power Factorization: 94%	472/500 [02:38<00:09, 2.95it/s]
Power Factorization: 95%	473/500 [02:38<00:09, 2.94it/s]
Power Factorization: 95%	474/500 [02:38<00:08, 3.04it/s]
Power Factorization: 95%	475/500 [02:39<00:08, 3.04it/s]
Power Factorization: 95%	476/500 [02:39<00:07, 3.09it/s]
Power Factorization: 95%	477/500 [02:39<00:07, 3.12it/s]
Power Factorization: 96%	478/500 [02:40<00:07, 3.10it/s]
Power Factorization: 96%	479/500 [02:40<00:06, 3.03it/s]
Power Factorization: 96%	480/500 [02:40<00:06, 3.07it/s]
Power Factorization: 96%	481/500 [02:41<00:06, 3.01it/s]
Power Factorization: 96%	482/500 [02:41<00:06, 2.98it/s]
Power Factorization: 97%	483/500 [02:41<00:05, 2.94it/s]
Power Factorization: 97%	484/500 [02:42<00:05, 2.99it/s]
Power Factorization: 97%	485/500 [02:42<00:04, 3.06it/s]
Power Factorization: 97%	486/500 [02:42<00:04, 3.03it/s]

Power Factorization: 97%	487/500 [02:43<00:04, 3.11it/s]
Power Factorization: 98%	488/500 [02:43<00:03, 3.09it/s]
Power Factorization: 98%	489/500 [02:43<00:03, 2.99it/s]
Power Factorization: 98%	490/500 [02:44<00:03, 2.99it/s]
Power Factorization: 98%	491/500 [02:44<00:03, 2.95it/s]
Power Factorization: 98%	492/500 [02:44<00:02, 2.85it/s]
Power Factorization: 99%	493/500 [02:45<00:02, 2.81it/s]
Power Factorization: 99%	494/500 [02:45<00:02, 2.95it/s]
Power Factorization: 99%	495/500 [02:45<00:01, 2.95it/s]
Power Factorization: 99%	496/500 [02:46<00:01, 2.97it/s]
Power Factorization: 99%	497/500 [02:46<00:00, 3.00it/s]
Power Factorization: 100%	498/500 [02:46<00:00, 2.96it/s]
Power Factorization: 100%	499/500 [02:47<00:00, 2.78it/s]
Power Factorization: 100%	500/500 [02:47<00:00, 2.98it/s]
Cross Validation: 20%	1/5 [02:47<11:10, 167.68s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<03:19, 2.50it/s]
Power Factorization: 0%	2/500 [00:00<03:04, 2.70it/s]
Power Factorization: 1%	3/500 [00:01<02:54, 2.84it/s]
Power Factorization: 1%	4/500 [00:01<02:45, 2.99it/s]
Power Factorization: 1%	5/500 [00:01<02:45, 3.00it/s]
Power Factorization: 1%	6/500 [00:02<02:51, 2.88it/s]
Power Factorization: 1%	7/500 [00:02<02:51, 2.87it/s]
Power Factorization: 2%	8/500 [00:02<02:44, 2.99it/s]

Power Factorization:	2%	9/500 [00:03<02:46, 2.94it/s]
Power Factorization:	2%	10/500 [00:03<02:39, 3.06it/s]
Power Factorization:	2%	11/500 [00:03<02:46, 2.94it/s]
Power Factorization:	2%	12/500 [00:04<02:48, 2.89it/s]
Power Factorization:	3%	13/500 [00:04<02:46, 2.93it/s]
Power Factorization:	3%	14/500 [00:04<02:40, 3.02it/s]
Power Factorization:	3%	15/500 [00:05<02:44, 2.95it/s]
Power Factorization:	3%	16/500 [00:05<02:44, 2.94it/s]
Power Factorization:	3%	17/500 [00:05<02:47, 2.88it/s]
Power Factorization:	4%	18/500 [00:06<02:45, 2.91it/s]
Power Factorization:	4%	19/500 [00:06<02:37, 3.06it/s]
Power Factorization:	4%	20/500 [00:06<02:37, 3.04it/s]
Power Factorization:	4%	21/500 [00:07<02:48, 2.84it/s]
Power Factorization:	4%	22/500 [00:07<02:46, 2.86it/s]
Power Factorization:	5%	23/500 [00:07<02:55, 2.72it/s]
Power Factorization:	5%	24/500 [00:08<02:50, 2.79it/s]
Power Factorization:	5%	25/500 [00:08<02:48, 2.83it/s]
Power Factorization:	5%	26/500 [00:08<02:41, 2.93it/s]
Power Factorization:	5%	27/500 [00:09<02:40, 2.94it/s]
Power Factorization:	6%	28/500 [00:09<02:32, 3.10it/s]
Power Factorization:	6%	29/500 [00:09<02:27, 3.19it/s]
Power Factorization:	6%	30/500 [00:10<02:38, 2.97it/s]
Power Factorization:	6%	31/500 [00:10<02:37, 2.98it/s]
Power Factorization:	6%	32/500 [00:10<02:29, 3.13it/s]

Power Factorization:	7%	33/500 [00:11<02:35, 3.01it/s]
Power Factorization:	7%	34/500 [00:11<02:32, 3.05it/s]
Power Factorization:	7%	35/500 [00:11<02:33, 3.03it/s]
Power Factorization:	7%	36/500 [00:12<02:39, 2.91it/s]
Power Factorization:	7%	37/500 [00:12<02:37, 2.93it/s]
Power Factorization:	8%	38/500 [00:12<02:39, 2.90it/s]
Power Factorization:	8%	39/500 [00:13<02:43, 2.82it/s]
Power Factorization:	8%	40/500 [00:13<02:42, 2.83it/s]
Power Factorization:	8%	41/500 [00:14<02:47, 2.74it/s]
Power Factorization:	8%	42/500 [00:14<02:47, 2.73it/s]
Power Factorization:	9%	43/500 [00:14<02:48, 2.71it/s]
Power Factorization:	9%	44/500 [00:15<02:38, 2.88it/s]
Power Factorization:	9%	45/500 [00:15<02:44, 2.77it/s]
Power Factorization:	9%	46/500 [00:15<02:39, 2.85it/s]
Power Factorization:	9%	47/500 [00:16<02:35, 2.92it/s]
Power Factorization:	10%	48/500 [00:16<02:37, 2.88it/s]
Power Factorization:	10%	49/500 [00:16<02:33, 2.93it/s]
Power Factorization:	10%	50/500 [00:17<02:29, 3.02it/s]
Power Factorization:	10%	51/500 [00:17<02:27, 3.05it/s]
Power Factorization:	10%	52/500 [00:17<02:28, 3.03it/s]
Power Factorization:	11%	53/500 [00:18<02:31, 2.96it/s]
Power Factorization:	11%	54/500 [00:18<02:28, 3.00it/s]
Power Factorization:	11%	55/500 [00:18<02:26, 3.04it/s]
Power Factorization:	11%	56/500 [00:19<02:21, 3.13it/s]

Power Factorization: 11%	57/500 [00:19<02:22, 3.12it/s]
Power Factorization: 12%	58/500 [00:19<02:24, 3.07it/s]
Power Factorization: 12%	59/500 [00:20<02:23, 3.07it/s]
Power Factorization: 12%	60/500 [00:20<02:26, 3.01it/s]
Power Factorization: 12%	61/500 [00:20<02:22, 3.08it/s]
Power Factorization: 12%	62/500 [00:21<02:21, 3.10it/s]
Power Factorization: 13%	63/500 [00:21<02:19, 3.14it/s]
Power Factorization: 13%	64/500 [00:21<02:20, 3.11it/s]
Power Factorization: 13%	65/500 [00:22<02:22, 3.05it/s]
Power Factorization: 13%	66/500 [00:22<02:16, 3.18it/s]
Power Factorization: 13%	67/500 [00:22<02:16, 3.18it/s]
Power Factorization: 14%	68/500 [00:22<02:20, 3.08it/s]
Power Factorization: 14%	69/500 [00:23<02:15, 3.18it/s]
Power Factorization: 14%	70/500 [00:23<02:15, 3.17it/s]
Power Factorization: 14%	71/500 [00:23<02:17, 3.13it/s]
Power Factorization: 14%	72/500 [00:24<02:16, 3.13it/s]
Power Factorization: 15%	73/500 [00:24<02:16, 3.13it/s]
Power Factorization: 15%	74/500 [00:24<02:20, 3.03it/s]
Power Factorization: 15%	75/500 [00:25<02:23, 2.96it/s]
Power Factorization: 15%	76/500 [00:25<02:22, 2.97it/s]
Power Factorization: 15%	77/500 [00:25<02:19, 3.03it/s]
Power Factorization: 16%	78/500 [00:26<02:27, 2.87it/s]
Power Factorization: 16%	79/500 [00:26<02:28, 2.84it/s]
Power Factorization: 16%	80/500 [00:26<02:23, 2.92it/s]

Power Factorization: 16%	81/500 [00:27<02:24,	2.89it/s]
Power Factorization: 16%	82/500 [00:27<02:18,	3.01it/s]
Power Factorization: 17%	83/500 [00:27<02:16,	3.07it/s]
Power Factorization: 17%	84/500 [00:28<02:16,	3.05it/s]
Power Factorization: 17%	85/500 [00:28<02:13,	3.11it/s]
Power Factorization: 17%	86/500 [00:28<02:15,	3.06it/s]
Power Factorization: 17%	87/500 [00:29<02:20,	2.93it/s]
Power Factorization: 18%	88/500 [00:29<02:17,	3.00it/s]
Power Factorization: 18%	89/500 [00:29<02:13,	3.08it/s]
Power Factorization: 18%	90/500 [00:30<02:13,	3.06it/s]
Power Factorization: 18%	91/500 [00:30<02:18,	2.96it/s]
Power Factorization: 18%	92/500 [00:30<02:14,	3.03it/s]
Power Factorization: 19%	93/500 [00:31<02:15,	3.00it/s]
Power Factorization: 19%	94/500 [00:31<02:14,	3.03it/s]
Power Factorization: 19%	95/500 [00:31<02:19,	2.90it/s]
Power Factorization: 19%	96/500 [00:32<02:16,	2.95it/s]
Power Factorization: 19%	97/500 [00:32<02:15,	2.97it/s]
Power Factorization: 20%	98/500 [00:32<02:18,	2.91it/s]
Power Factorization: 20%	99/500 [00:33<02:11,	3.05it/s]
Power Factorization: 20%	100/500 [00:33<02:14,	2.98it/s]
Power Factorization: 20%	101/500 [00:33<02:13,	2.98it/s]
Power Factorization: 20%	102/500 [00:34<02:11,	3.02it/s]
Power Factorization: 21%	103/500 [00:34<02:10,	3.04it/s]
Power Factorization: 21%	104/500 [00:34<02:11,	3.01it/s]

Power Factorization: 21%	105/500 [00:35<02:09, 3.05it/s]
Power Factorization: 21%	106/500 [00:35<02:11, 2.99it/s]
Power Factorization: 21%	107/500 [00:35<02:10, 3.02it/s]
Power Factorization: 22%	108/500 [00:36<02:12, 2.96it/s]
Power Factorization: 22%	109/500 [00:36<02:14, 2.92it/s]
Power Factorization: 22%	110/500 [00:36<02:14, 2.90it/s]
Power Factorization: 22%	111/500 [00:37<02:11, 2.96it/s]
Power Factorization: 22%	112/500 [00:37<02:10, 2.97it/s]
Power Factorization: 23%	113/500 [00:38<02:15, 2.87it/s]
Power Factorization: 23%	114/500 [00:38<02:13, 2.90it/s]
Power Factorization: 23%	115/500 [00:38<02:13, 2.88it/s]
Power Factorization: 23%	116/500 [00:39<02:07, 3.02it/s]
Power Factorization: 23%	117/500 [00:39<02:06, 3.02it/s]
Power Factorization: 24%	118/500 [00:39<02:05, 3.03it/s]
Power Factorization: 24%	119/500 [00:39<02:04, 3.07it/s]
Power Factorization: 24%	120/500 [00:40<02:03, 3.08it/s]
Power Factorization: 24%	121/500 [00:40<02:07, 2.98it/s]
Power Factorization: 24%	122/500 [00:41<02:08, 2.93it/s]
Power Factorization: 25%	123/500 [00:41<02:04, 3.04it/s]
Power Factorization: 25%	124/500 [00:41<02:02, 3.07it/s]
Power Factorization: 25%	125/500 [00:41<02:05, 2.99it/s]
Power Factorization: 25%	126/500 [00:42<02:04, 3.01it/s]
Power Factorization: 25%	127/500 [00:42<02:05, 2.97it/s]
Power Factorization: 26%	128/500 [00:43<02:14, 2.77it/s]

Power Factorization: 26%	129/500 [00:43<02:12, 2.81it/s]
Power Factorization: 26%	130/500 [00:43<02:06, 2.92it/s]
Power Factorization: 26%	131/500 [00:44<02:04, 2.95it/s]
Power Factorization: 26%	132/500 [00:44<02:04, 2.95it/s]
Power Factorization: 27%	133/500 [00:44<02:03, 2.98it/s]
Power Factorization: 27%	134/500 [00:45<02:02, 2.99it/s]
Power Factorization: 27%	135/500 [00:45<01:59, 3.05it/s]
Power Factorization: 27%	136/500 [00:45<01:59, 3.05it/s]
Power Factorization: 27%	137/500 [00:46<01:58, 3.06it/s]
Power Factorization: 28%	138/500 [00:46<02:02, 2.94it/s]
Power Factorization: 28%	139/500 [00:46<02:01, 2.96it/s]
Power Factorization: 28%	140/500 [00:47<02:01, 2.95it/s]
Power Factorization: 28%	141/500 [00:47<02:02, 2.93it/s]
Power Factorization: 28%	142/500 [00:47<01:59, 2.99it/s]
Power Factorization: 29%	143/500 [00:48<01:57, 3.03it/s]
Power Factorization: 29%	144/500 [00:48<02:04, 2.87it/s]
Power Factorization: 29%	145/500 [00:48<01:58, 2.99it/s]
Power Factorization: 29%	146/500 [00:49<01:57, 3.02it/s]
Power Factorization: 29%	147/500 [00:49<02:00, 2.92it/s]
Power Factorization: 30%	148/500 [00:49<01:57, 2.99it/s]
Power Factorization: 30%	149/500 [00:50<01:51, 3.14it/s]
Power Factorization: 30%	150/500 [00:50<01:48, 3.22it/s]
Power Factorization: 30%	151/500 [00:50<01:48, 3.21it/s]
Power Factorization: 30%	152/500 [00:50<01:47, 3.23it/s]

Power Factorization: 31%	153/500 [00:51<01:48, 3.21it/s]
Power Factorization: 31%	154/500 [00:51<01:47, 3.22it/s]
Power Factorization: 31%	155/500 [00:51<01:51, 3.10it/s]
Power Factorization: 31%	156/500 [00:52<01:50, 3.11it/s]
Power Factorization: 31%	157/500 [00:52<01:48, 3.16it/s]
Power Factorization: 32%	158/500 [00:52<01:48, 3.16it/s]
Power Factorization: 32%	159/500 [00:53<01:49, 3.11it/s]
Power Factorization: 32%	160/500 [00:53<01:46, 3.18it/s]
Power Factorization: 32%	161/500 [00:53<01:48, 3.13it/s]
Power Factorization: 32%	162/500 [00:54<01:51, 3.02it/s]
Power Factorization: 33%	163/500 [00:54<01:50, 3.05it/s]
Power Factorization: 33%	164/500 [00:54<01:49, 3.06it/s]
Power Factorization: 33%	165/500 [00:55<01:51, 3.00it/s]
Power Factorization: 33%	166/500 [00:55<01:49, 3.04it/s]
Power Factorization: 33%	167/500 [00:55<01:49, 3.05it/s]
Power Factorization: 34%	168/500 [00:56<01:49, 3.04it/s]
Power Factorization: 34%	169/500 [00:56<01:46, 3.10it/s]
Power Factorization: 34%	170/500 [00:56<01:46, 3.11it/s]
Power Factorization: 34%	171/500 [00:57<01:48, 3.02it/s]
Power Factorization: 34%	172/500 [00:57<01:44, 3.13it/s]
Power Factorization: 35%	173/500 [00:57<01:43, 3.15it/s]
Power Factorization: 35%	174/500 [00:58<01:40, 3.24it/s]
Power Factorization: 35%	175/500 [00:58<01:39, 3.26it/s]
Power Factorization: 35%	176/500 [00:58<01:43, 3.14it/s]

Power Factorization: 35%	177/500 [00:58<01:40, 3.20it/s]
Power Factorization: 36%	178/500 [00:59<01:44, 3.09it/s]
Power Factorization: 36%	179/500 [00:59<01:42, 3.12it/s]
Power Factorization: 36%	180/500 [00:59<01:40, 3.18it/s]
Power Factorization: 36%	181/500 [01:00<01:39, 3.19it/s]
Power Factorization: 36%	182/500 [01:00<01:38, 3.22it/s]
Power Factorization: 37%	183/500 [01:00<01:38, 3.22it/s]
Power Factorization: 37%	184/500 [01:01<01:37, 3.23it/s]
Power Factorization: 37%	185/500 [01:01<01:39, 3.17it/s]
Power Factorization: 37%	186/500 [01:01<01:37, 3.22it/s]
Power Factorization: 37%	187/500 [01:02<01:40, 3.11it/s]
Power Factorization: 38%	188/500 [01:02<01:40, 3.10it/s]
Power Factorization: 38%	189/500 [01:02<01:40, 3.09it/s]
Power Factorization: 38%	190/500 [01:03<01:40, 3.08it/s]
Power Factorization: 38%	191/500 [01:03<01:39, 3.09it/s]
Power Factorization: 38%	192/500 [01:03<01:44, 2.94it/s]
Power Factorization: 39%	193/500 [01:04<01:42, 2.98it/s]
Power Factorization: 39%	194/500 [01:04<01:41, 3.01it/s]
Power Factorization: 39%	195/500 [01:04<01:39, 3.05it/s]
Power Factorization: 39%	196/500 [01:05<01:37, 3.11it/s]
Power Factorization: 39%	197/500 [01:05<01:37, 3.10it/s]
Power Factorization: 40%	198/500 [01:05<01:39, 3.02it/s]
Power Factorization: 40%	199/500 [01:06<01:40, 3.01it/s]
Power Factorization: 40%	200/500 [01:06<01:37, 3.07it/s]

Power Factorization: 40%	201/500 [01:06<01:39, 2.99it/s]
Power Factorization: 40%	202/500 [01:07<01:42, 2.90it/s]
Power Factorization: 41%	203/500 [01:07<01:41, 2.92it/s]
Power Factorization: 41%	204/500 [01:07<01:33, 3.15it/s]
Power Factorization: 41%	205/500 [01:08<01:31, 3.24it/s]
Power Factorization: 41%	206/500 [01:08<01:34, 3.10it/s]
Power Factorization: 41%	207/500 [01:08<01:35, 3.08it/s]
Power Factorization: 42%	208/500 [01:09<01:40, 2.91it/s]
Power Factorization: 42%	209/500 [01:09<01:37, 2.98it/s]
Power Factorization: 42%	210/500 [01:09<01:36, 3.01it/s]
Power Factorization: 42%	211/500 [01:10<01:34, 3.05it/s]
Power Factorization: 42%	212/500 [01:10<01:35, 3.02it/s]
Power Factorization: 43%	213/500 [01:10<01:36, 2.97it/s]
Power Factorization: 43%	214/500 [01:11<01:37, 2.93it/s]
Power Factorization: 43%	215/500 [01:11<01:39, 2.87it/s]
Power Factorization: 43%	216/500 [01:11<01:34, 2.99it/s]
Power Factorization: 43%	217/500 [01:12<01:37, 2.91it/s]
Power Factorization: 44%	218/500 [01:12<01:34, 2.97it/s]
Power Factorization: 44%	219/500 [01:12<01:32, 3.05it/s]
Power Factorization: 44%	220/500 [01:13<01:32, 3.02it/s]
Power Factorization: 44%	221/500 [01:13<01:33, 2.97it/s]
Power Factorization: 44%	222/500 [01:13<01:30, 3.06it/s]
Power Factorization: 45%	223/500 [01:14<01:29, 3.08it/s]
Power Factorization: 45%	224/500 [01:14<01:30, 3.06it/s]

Power Factorization: 45%	225/500 [01:14<01:26, 3.17it/s]
Power Factorization: 45%	226/500 [01:15<01:26, 3.17it/s]
Power Factorization: 45%	227/500 [01:15<01:25, 3.21it/s]
Power Factorization: 46%	228/500 [01:15<01:28, 3.08it/s]
Power Factorization: 46%	229/500 [01:15<01:25, 3.18it/s]
Power Factorization: 46%	230/500 [01:16<01:27, 3.10it/s]
Power Factorization: 46%	231/500 [01:16<01:32, 2.92it/s]
Power Factorization: 46%	232/500 [01:17<01:30, 2.95it/s]
Power Factorization: 47%	233/500 [01:17<01:27, 3.04it/s]
Power Factorization: 47%	234/500 [01:17<01:26, 3.07it/s]
Power Factorization: 47%	235/500 [01:18<01:31, 2.89it/s]
Power Factorization: 47%	236/500 [01:18<01:35, 2.77it/s]
Power Factorization: 47%	237/500 [01:18<01:30, 2.92it/s]
Power Factorization: 48%	238/500 [01:19<01:28, 2.96it/s]
Power Factorization: 48%	239/500 [01:19<01:27, 2.97it/s]
Power Factorization: 48%	240/500 [01:19<01:25, 3.04it/s]
Power Factorization: 48%	241/500 [01:20<01:24, 3.05it/s]
Power Factorization: 48%	242/500 [01:20<01:29, 2.89it/s]
Power Factorization: 49%	243/500 [01:20<01:30, 2.83it/s]
Power Factorization: 49%	244/500 [01:21<01:31, 2.79it/s]
Power Factorization: 49%	245/500 [01:21<01:25, 2.98it/s]
Power Factorization: 49%	246/500 [01:21<01:25, 2.96it/s]
Power Factorization: 49%	247/500 [01:22<01:27, 2.90it/s]
Power Factorization: 50%	248/500 [01:22<01:24, 2.97it/s]

Power Factorization: 50%	249/500 [01:22<01:21, 3.09it/s]
Power Factorization: 50%	250/500 [01:23<01:20, 3.12it/s]
Power Factorization: 50%	251/500 [01:23<01:25, 2.92it/s]
Power Factorization: 50%	252/500 [01:23<01:27, 2.83it/s]
Power Factorization: 51%	253/500 [01:24<01:29, 2.75it/s]
Power Factorization: 51%	254/500 [01:24<01:28, 2.78it/s]
Power Factorization: 51%	255/500 [01:25<01:32, 2.64it/s]
Power Factorization: 51%	256/500 [01:25<01:30, 2.69it/s]
Power Factorization: 51%	257/500 [01:25<01:26, 2.80it/s]
Power Factorization: 52%	258/500 [01:26<01:24, 2.87it/s]
Power Factorization: 52%	259/500 [01:26<01:21, 2.96it/s]
Power Factorization: 52%	260/500 [01:26<01:20, 2.98it/s]
Power Factorization: 52%	261/500 [01:26<01:17, 3.08it/s]
Power Factorization: 52%	262/500 [01:27<01:16, 3.10it/s]
Power Factorization: 53%	263/500 [01:27<01:18, 3.01it/s]
Power Factorization: 53%	264/500 [01:27<01:17, 3.04it/s]
Power Factorization: 53%	265/500 [01:28<01:15, 3.11it/s]
Power Factorization: 53%	266/500 [01:28<01:14, 3.12it/s]
Power Factorization: 53%	267/500 [01:28<01:17, 3.01it/s]
Power Factorization: 54%	268/500 [01:29<01:18, 2.97it/s]
Power Factorization: 54%	269/500 [01:29<01:15, 3.06it/s]
Power Factorization: 54%	270/500 [01:29<01:15, 3.06it/s]
Power Factorization: 54%	271/500 [01:30<01:14, 3.07it/s]
Power Factorization: 54%	272/500 [01:30<01:14, 3.06it/s]

Power Factorization: 55%	273/500 [01:30<01:15, 3.02it/s]
Power Factorization: 55%	274/500 [01:31<01:11, 3.15it/s]
Power Factorization: 55%	275/500 [01:31<01:10, 3.20it/s]
Power Factorization: 55%	276/500 [01:31<01:07, 3.31it/s]
Power Factorization: 55%	277/500 [01:32<01:07, 3.31it/s]
Power Factorization: 56%	278/500 [01:32<01:08, 3.26it/s]
Power Factorization: 56%	279/500 [01:32<01:07, 3.26it/s]
Power Factorization: 56%	280/500 [01:32<01:06, 3.33it/s]
Power Factorization: 56%	281/500 [01:33<01:07, 3.22it/s]
Power Factorization: 56%	282/500 [01:33<01:12, 3.02it/s]
Power Factorization: 57%	283/500 [01:34<01:15, 2.89it/s]
Power Factorization: 57%	284/500 [01:34<01:14, 2.90it/s]
Power Factorization: 57%	285/500 [01:34<01:11, 3.02it/s]
Power Factorization: 57%	286/500 [01:35<01:13, 2.92it/s]
Power Factorization: 57%	287/500 [01:35<01:11, 2.99it/s]
Power Factorization: 58%	288/500 [01:35<01:10, 3.01it/s]
Power Factorization: 58%	289/500 [01:36<01:08, 3.07it/s]
Power Factorization: 58%	290/500 [01:36<01:09, 3.04it/s]
Power Factorization: 58%	291/500 [01:36<01:06, 3.15it/s]
Power Factorization: 58%	292/500 [01:37<01:08, 3.05it/s]
Power Factorization: 59%	293/500 [01:37<01:06, 3.09it/s]
Power Factorization: 59%	294/500 [01:37<01:07, 3.04it/s]
Power Factorization: 59%	295/500 [01:37<01:07, 3.04it/s]
Power Factorization: 59%	296/500 [01:38<01:05, 3.11it/s]

Power Factorization: 59%	297/500 [01:38<01:04, 3.17it/s]
Power Factorization: 60%	298/500 [01:38<01:06, 3.03it/s]
Power Factorization: 60%	299/500 [01:39<01:07, 2.97it/s]
Power Factorization: 60%	300/500 [01:39<01:06, 3.01it/s]
Power Factorization: 60%	301/500 [01:39<01:05, 3.05it/s]
Power Factorization: 60%	302/500 [01:40<01:06, 2.96it/s]
Power Factorization: 61%	303/500 [01:40<01:05, 3.01it/s]
Power Factorization: 61%	304/500 [01:40<01:02, 3.13it/s]
Power Factorization: 61%	305/500 [01:41<01:01, 3.17it/s]
Power Factorization: 61%	306/500 [01:41<01:01, 3.18it/s]
Power Factorization: 61%	307/500 [01:41<01:01, 3.16it/s]
Power Factorization: 62%	308/500 [01:42<01:00, 3.18it/s]
Power Factorization: 62%	309/500 [01:42<00:59, 3.19it/s]
Power Factorization: 62%	310/500 [01:42<00:58, 3.22it/s]
Power Factorization: 62%	311/500 [01:43<00:58, 3.23it/s]
Power Factorization: 62%	312/500 [01:43<00:59, 3.16it/s]
Power Factorization: 63%	313/500 [01:43<00:57, 3.23it/s]
Power Factorization: 63%	314/500 [01:44<00:58, 3.21it/s]
Power Factorization: 63%	315/500 [01:44<00:58, 3.16it/s]
Power Factorization: 63%	316/500 [01:44<00:57, 3.19it/s]
Power Factorization: 63%	317/500 [01:44<00:56, 3.23it/s]
Power Factorization: 64%	318/500 [01:45<00:56, 3.20it/s]
Power Factorization: 64%	319/500 [01:45<00:57, 3.17it/s]
Power Factorization: 64%	320/500 [01:45<00:55, 3.24it/s]

Power Factorization: 64%	321/500 [01:46<00:57, 3.13it/s]
Power Factorization: 64%	322/500 [01:46<00:58, 3.05it/s]
Power Factorization: 65%	323/500 [01:46<00:56, 3.15it/s]
Power Factorization: 65%	324/500 [01:47<00:55, 3.16it/s]
Power Factorization: 65%	325/500 [01:47<00:55, 3.18it/s]
Power Factorization: 65%	326/500 [01:47<00:54, 3.21it/s]
Power Factorization: 65%	327/500 [01:48<00:54, 3.16it/s]
Power Factorization: 66%	328/500 [01:48<00:54, 3.18it/s]
Power Factorization: 66%	329/500 [01:48<00:53, 3.19it/s]
Power Factorization: 66%	330/500 [01:49<00:53, 3.21it/s]
Power Factorization: 66%	331/500 [01:49<00:51, 3.26it/s]
Power Factorization: 66%	332/500 [01:49<00:51, 3.24it/s]
Power Factorization: 67%	333/500 [01:50<00:54, 3.09it/s]
Power Factorization: 67%	334/500 [01:50<00:53, 3.11it/s]
Power Factorization: 67%	335/500 [01:50<00:54, 3.03it/s]
Power Factorization: 67%	336/500 [01:51<00:53, 3.06it/s]
Power Factorization: 67%	337/500 [01:51<00:52, 3.11it/s]
Power Factorization: 68%	338/500 [01:51<00:50, 3.20it/s]
Power Factorization: 68%	339/500 [01:51<00:50, 3.19it/s]
Power Factorization: 68%	340/500 [01:52<00:49, 3.25it/s]
Power Factorization: 68%	341/500 [01:52<00:48, 3.25it/s]
Power Factorization: 68%	342/500 [01:52<00:50, 3.11it/s]
Power Factorization: 69%	343/500 [01:53<00:51, 3.03it/s]
Power Factorization: 69%	344/500 [01:53<00:50, 3.08it/s]

Power Factorization: 69%	345/500 [01:53<00:48, 3.20it/s]
Power Factorization: 69%	346/500 [01:54<00:49, 3.11it/s]
Power Factorization: 69%	347/500 [01:54<00:48, 3.16it/s]
Power Factorization: 70%	348/500 [01:54<00:50, 3.00it/s]
Power Factorization: 70%	349/500 [01:55<00:50, 2.96it/s]
Power Factorization: 70%	350/500 [01:55<00:49, 3.06it/s]
Power Factorization: 70%	351/500 [01:55<00:46, 3.17it/s]
Power Factorization: 70%	352/500 [01:56<00:47, 3.10it/s]
Power Factorization: 71%	353/500 [01:56<00:49, 2.96it/s]
Power Factorization: 71%	354/500 [01:56<00:47, 3.10it/s]
Power Factorization: 71%	355/500 [01:57<00:45, 3.17it/s]
Power Factorization: 71%	356/500 [01:57<00:45, 3.16it/s]
Power Factorization: 71%	357/500 [01:57<00:45, 3.15it/s]
Power Factorization: 72%	358/500 [01:58<00:47, 2.99it/s]
Power Factorization: 72%	359/500 [01:58<00:46, 3.02it/s]
Power Factorization: 72%	360/500 [01:58<00:48, 2.88it/s]
Power Factorization: 72%	361/500 [01:59<00:47, 2.94it/s]
Power Factorization: 72%	362/500 [01:59<00:44, 3.13it/s]
Power Factorization: 73%	363/500 [01:59<00:44, 3.05it/s]
Power Factorization: 73%	364/500 [02:00<00:43, 3.14it/s]
Power Factorization: 73%	365/500 [02:00<00:45, 2.95it/s]
Power Factorization: 73%	366/500 [02:00<00:43, 3.11it/s]
Power Factorization: 73%	367/500 [02:01<00:41, 3.17it/s]
Power Factorization: 74%	368/500 [02:01<00:41, 3.16it/s]

Power Factorization: 74%	369/500 [02:01<00:42, 3.12it/s]
Power Factorization: 74%	370/500 [02:02<00:41, 3.12it/s]
Power Factorization: 74%	371/500 [02:02<00:42, 3.00it/s]
Power Factorization: 74%	372/500 [02:02<00:42, 3.02it/s]
Power Factorization: 75%	373/500 [02:03<00:41, 3.05it/s]
Power Factorization: 75%	374/500 [02:03<00:42, 2.99it/s]
Power Factorization: 75%	375/500 [02:03<00:41, 3.02it/s]
Power Factorization: 75%	376/500 [02:04<00:42, 2.92it/s]
Power Factorization: 75%	377/500 [02:04<00:41, 2.97it/s]
Power Factorization: 76%	378/500 [02:04<00:39, 3.06it/s]
Power Factorization: 76%	379/500 [02:05<00:41, 2.93it/s]
Power Factorization: 76%	380/500 [02:05<00:39, 3.05it/s]
Power Factorization: 76%	381/500 [02:05<00:40, 2.96it/s]
Power Factorization: 76%	382/500 [02:06<00:39, 2.99it/s]
Power Factorization: 77%	383/500 [02:06<00:38, 3.03it/s]
Power Factorization: 77%	384/500 [02:06<00:38, 3.00it/s]
Power Factorization: 77%	385/500 [02:07<00:37, 3.10it/s]
Power Factorization: 77%	386/500 [02:07<00:36, 3.11it/s]
Power Factorization: 77%	387/500 [02:07<00:36, 3.08it/s]
Power Factorization: 78%	388/500 [02:07<00:34, 3.22it/s]
Power Factorization: 78%	389/500 [02:08<00:35, 3.17it/s]
Power Factorization: 78%	390/500 [02:08<00:35, 3.12it/s]
Power Factorization: 78%	391/500 [02:08<00:34, 3.16it/s]
Power Factorization: 78%	392/500 [02:09<00:34, 3.12it/s]

Power Factorization: 79%	393/500 [02:09<00:33, 3.18it/s]
Power Factorization: 79%	394/500 [02:09<00:32, 3.23it/s]
Power Factorization: 79%	395/500 [02:10<00:31, 3.28it/s]
Power Factorization: 79%	396/500 [02:10<00:32, 3.25it/s]
Power Factorization: 79%	397/500 [02:10<00:32, 3.13it/s]
Power Factorization: 80%	398/500 [02:11<00:33, 3.04it/s]
Power Factorization: 80%	399/500 [02:11<00:33, 3.01it/s]
Power Factorization: 80%	400/500 [02:11<00:33, 3.01it/s]
Power Factorization: 80%	401/500 [02:12<00:32, 3.02it/s]
Power Factorization: 80%	402/500 [02:12<00:31, 3.09it/s]
Power Factorization: 81%	403/500 [02:12<00:31, 3.04it/s]
Power Factorization: 81%	404/500 [02:13<00:30, 3.13it/s]
Power Factorization: 81%	405/500 [02:13<00:30, 3.09it/s]
Power Factorization: 81%	406/500 [02:13<00:31, 2.97it/s]
Power Factorization: 81%	407/500 [02:14<00:31, 2.92it/s]
Power Factorization: 82%	408/500 [02:14<00:30, 3.02it/s]
Power Factorization: 82%	409/500 [02:14<00:31, 2.90it/s]
Power Factorization: 82%	410/500 [02:15<00:29, 3.04it/s]
Power Factorization: 82%	411/500 [02:15<00:28, 3.07it/s]
Power Factorization: 82%	412/500 [02:15<00:29, 2.96it/s]
Power Factorization: 83%	413/500 [02:16<00:28, 3.09it/s]
Power Factorization: 83%	414/500 [02:16<00:28, 3.06it/s]
Power Factorization: 83%	415/500 [02:16<00:27, 3.12it/s]
Power Factorization: 83%	416/500 [02:17<00:26, 3.12it/s]

Power Factorization: 83%	417/500 [02:17<00:27,	3.06it/s]
Power Factorization: 84%	418/500 [02:17<00:28,	2.86it/s]
Power Factorization: 84%	419/500 [02:18<00:28,	2.85it/s]
Power Factorization: 84%	420/500 [02:18<00:31,	2.52it/s]
Power Factorization: 84%	421/500 [02:18<00:29,	2.65it/s]
Power Factorization: 84%	422/500 [02:19<00:28,	2.76it/s]
Power Factorization: 85%	423/500 [02:19<00:27,	2.78it/s]
Power Factorization: 85%	424/500 [02:19<00:25,	2.96it/s]
Power Factorization: 85%	425/500 [02:20<00:25,	2.96it/s]
Power Factorization: 85%	426/500 [02:20<00:24,	3.08it/s]
Power Factorization: 85%	427/500 [02:20<00:23,	3.09it/s]
Power Factorization: 86%	428/500 [02:21<00:23,	3.06it/s]
Power Factorization: 86%	429/500 [02:21<00:23,	3.08it/s]
Power Factorization: 86%	430/500 [02:21<00:22,	3.12it/s]
Power Factorization: 86%	431/500 [02:22<00:21,	3.15it/s]
Power Factorization: 86%	432/500 [02:22<00:21,	3.15it/s]
Power Factorization: 87%	433/500 [02:22<00:21,	3.09it/s]
Power Factorization: 87%	434/500 [02:23<00:21,	3.09it/s]
Power Factorization: 87%	435/500 [02:23<00:20,	3.12it/s]
Power Factorization: 87%	436/500 [02:23<00:20,	3.14it/s]
Power Factorization: 87%	437/500 [02:24<00:20,	3.01it/s]
Power Factorization: 88%	438/500 [02:24<00:20,	3.06it/s]
Power Factorization: 88%	439/500 [02:24<00:20,	2.99it/s]
Power Factorization: 88%	440/500 [02:25<00:20,	2.99it/s]

Power Factorization: 88%	441/500 [02:25<00:19, 3.03it/s]
Power Factorization: 88%	442/500 [02:25<00:18, 3.09it/s]
Power Factorization: 89%	443/500 [02:26<00:17, 3.29it/s]
Power Factorization: 89%	444/500 [02:26<00:16, 3.34it/s]
Power Factorization: 89%	445/500 [02:26<00:16, 3.37it/s]
Power Factorization: 89%	446/500 [02:26<00:16, 3.32it/s]
Power Factorization: 89%	447/500 [02:27<00:16, 3.19it/s]
Power Factorization: 90%	448/500 [02:27<00:16, 3.12it/s]
Power Factorization: 90%	449/500 [02:27<00:15, 3.21it/s]
Power Factorization: 90%	450/500 [02:28<00:15, 3.16it/s]
Power Factorization: 90%	451/500 [02:28<00:15, 3.26it/s]
Power Factorization: 90%	452/500 [02:28<00:15, 3.09it/s]
Power Factorization: 91%	453/500 [02:29<00:15, 2.99it/s]
Power Factorization: 91%	454/500 [02:29<00:15, 3.00it/s]
Power Factorization: 91%	455/500 [02:29<00:14, 3.00it/s]
Power Factorization: 91%	456/500 [02:30<00:14, 2.96it/s]
Power Factorization: 91%	457/500 [02:30<00:14, 2.97it/s]
Power Factorization: 92%	458/500 [02:30<00:13, 3.02it/s]
Power Factorization: 92%	459/500 [02:31<00:13, 3.05it/s]
Power Factorization: 92%	460/500 [02:31<00:13, 2.91it/s]
Power Factorization: 92%	461/500 [02:31<00:14, 2.77it/s]
Power Factorization: 92%	462/500 [02:32<00:13, 2.83it/s]
Power Factorization: 93%	463/500 [02:32<00:12, 2.90it/s]
Power Factorization: 93%	464/500 [02:33<00:12, 2.79it/s]

Power Factorization: 93%	465/500 [02:33<00:11, 2.93it/s]
Power Factorization: 93%	466/500 [02:33<00:11, 3.07it/s]
Power Factorization: 93%	467/500 [02:33<00:10, 3.12it/s]
Power Factorization: 94%	468/500 [02:34<00:10, 3.12it/s]
Power Factorization: 94%	469/500 [02:34<00:10, 3.05it/s]
Power Factorization: 94%	470/500 [02:34<00:09, 3.11it/s]
Power Factorization: 94%	471/500 [02:35<00:09, 3.00it/s]
Power Factorization: 94%	472/500 [02:35<00:08, 3.12it/s]
Power Factorization: 95%	473/500 [02:35<00:08, 3.06it/s]
Power Factorization: 95%	474/500 [02:36<00:08, 3.09it/s]
Power Factorization: 95%	475/500 [02:36<00:08, 2.86it/s]
Power Factorization: 95%	476/500 [02:36<00:08, 2.90it/s]
Power Factorization: 95%	477/500 [02:37<00:07, 3.00it/s]
Power Factorization: 96%	478/500 [02:37<00:07, 2.98it/s]
Power Factorization: 96%	479/500 [02:37<00:07, 2.92it/s]
Power Factorization: 96%	480/500 [02:38<00:06, 2.97it/s]
Power Factorization: 96%	481/500 [02:38<00:06, 2.96it/s]
Power Factorization: 96%	482/500 [02:38<00:05, 3.05it/s]
Power Factorization: 97%	483/500 [02:39<00:05, 3.06it/s]
Power Factorization: 97%	484/500 [02:39<00:05, 3.08it/s]
Power Factorization: 97%	485/500 [02:39<00:04, 3.04it/s]
Power Factorization: 97%	486/500 [02:40<00:04, 2.85it/s]
Power Factorization: 97%	487/500 [02:40<00:04, 2.76it/s]
Power Factorization: 98%	488/500 [02:41<00:04, 2.95it/s]

Power Factorization: 98%	489/500 [02:41<00:03, 3.04it/s]
Power Factorization: 98%	490/500 [02:41<00:03, 3.09it/s]
Power Factorization: 98%	491/500 [02:41<00:02, 3.17it/s]
Power Factorization: 98%	492/500 [02:42<00:02, 3.13it/s]
Power Factorization: 99%	493/500 [02:42<00:02, 2.92it/s]
Power Factorization: 99%	494/500 [02:43<00:02, 2.68it/s]
Power Factorization: 99%	495/500 [02:43<00:01, 2.78it/s]
Power Factorization: 99%	496/500 [02:43<00:01, 2.95it/s]
Power Factorization: 99%	497/500 [02:44<00:00, 3.02it/s]
Power Factorization: 100%	498/500 [02:44<00:00, 2.99it/s]
Power Factorization: 100%	499/500 [02:44<00:00, 3.06it/s]
Power Factorization: 100%	500/500 [02:44<00:00, 3.03it/s]
Cross Validation: 40%	2/5 [05:32<08:18, 166.13s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:20, 3.55it/s]
Power Factorization: 0%	2/500 [00:00<02:25, 3.43it/s]
Power Factorization: 1%	3/500 [00:00<02:30, 3.31it/s]
Power Factorization: 1%	4/500 [00:01<02:32, 3.24it/s]
Power Factorization: 1%	5/500 [00:01<02:30, 3.29it/s]
Power Factorization: 1%	6/500 [00:01<02:30, 3.28it/s]
Power Factorization: 1%	7/500 [00:02<02:30, 3.28it/s]
Power Factorization: 2%	8/500 [00:02<02:36, 3.15it/s]
Power Factorization: 2%	9/500 [00:02<02:37, 3.11it/s]
Power Factorization: 2%	10/500 [00:03<02:46, 2.94it/s]

Power Factorization:	2%	11/500	[00:03<02:52,	2.83it/s]
Power Factorization:	2%	12/500	[00:03<02:47,	2.91it/s]
Power Factorization:	3%	13/500	[00:04<02:51,	2.84it/s]
Power Factorization:	3%	14/500	[00:04<02:46,	2.92it/s]
Power Factorization:	3%	15/500	[00:04<02:40,	3.02it/s]
Power Factorization:	3%	16/500	[00:05<02:49,	2.86it/s]
Power Factorization:	3%	17/500	[00:05<02:48,	2.86it/s]
Power Factorization:	4%	18/500	[00:05<02:43,	2.96it/s]
Power Factorization:	4%	19/500	[00:06<02:37,	3.05it/s]
Power Factorization:	4%	20/500	[00:06<02:29,	3.22it/s]
Power Factorization:	4%	21/500	[00:06<02:31,	3.15it/s]
Power Factorization:	4%	22/500	[00:07<02:33,	3.12it/s]
Power Factorization:	5%	23/500	[00:07<03:11,	2.49it/s]
Power Factorization:	5%	24/500	[00:08<03:06,	2.55it/s]
Power Factorization:	5%	25/500	[00:08<02:59,	2.65it/s]
Power Factorization:	5%	26/500	[00:08<02:54,	2.71it/s]
Power Factorization:	5%	27/500	[00:09<02:47,	2.82it/s]
Power Factorization:	6%	28/500	[00:09<02:47,	2.81it/s]
Power Factorization:	6%	29/500	[00:09<02:49,	2.78it/s]
Power Factorization:	6%	30/500	[00:10<02:51,	2.74it/s]
Power Factorization:	6%	31/500	[00:10<02:52,	2.72it/s]
Power Factorization:	6%	32/500	[00:10<02:47,	2.79it/s]
Power Factorization:	7%	33/500	[00:11<02:44,	2.85it/s]
Power Factorization:	7%	34/500	[00:11<02:42,	2.87it/s]

Power Factorization:	7%	35/500 [00:11<02:39, 2.92it/s]
Power Factorization:	7%	36/500 [00:12<02:37, 2.94it/s]
Power Factorization:	7%	37/500 [00:12<02:33, 3.02it/s]
Power Factorization:	8%	38/500 [00:12<02:31, 3.05it/s]
Power Factorization:	8%	39/500 [00:13<02:35, 2.96it/s]
Power Factorization:	8%	40/500 [00:13<02:33, 3.01it/s]
Power Factorization:	8%	41/500 [00:13<02:40, 2.87it/s]
Power Factorization:	8%	42/500 [00:14<02:41, 2.83it/s]
Power Factorization:	9%	43/500 [00:14<02:36, 2.93it/s]
Power Factorization:	9%	44/500 [00:15<02:36, 2.92it/s]
Power Factorization:	9%	45/500 [00:15<02:32, 2.99it/s]
Power Factorization:	9%	46/500 [00:15<02:35, 2.93it/s]
Power Factorization:	9%	47/500 [00:16<02:37, 2.88it/s]
Power Factorization:	10%	48/500 [00:16<02:40, 2.82it/s]
Power Factorization:	10%	49/500 [00:16<02:40, 2.80it/s]
Power Factorization:	10%	50/500 [00:17<02:41, 2.79it/s]
Power Factorization:	10%	51/500 [00:17<02:40, 2.80it/s]
Power Factorization:	10%	52/500 [00:17<02:35, 2.87it/s]
Power Factorization:	11%	53/500 [00:18<02:36, 2.86it/s]
Power Factorization:	11%	54/500 [00:18<02:44, 2.71it/s]
Power Factorization:	11%	55/500 [00:18<02:42, 2.74it/s]
Power Factorization:	11%	56/500 [00:19<02:40, 2.77it/s]
Power Factorization:	11%	57/500 [00:19<02:36, 2.84it/s]
Power Factorization:	12%	58/500 [00:19<02:33, 2.88it/s]

Power Factorization: 12%	59/500 [00:20<02:35,	2.83it/s]
Power Factorization: 12%	60/500 [00:20<02:36,	2.82it/s]
Power Factorization: 12%	61/500 [00:21<02:33,	2.87it/s]
Power Factorization: 12%	62/500 [00:21<02:29,	2.93it/s]
Power Factorization: 13%	63/500 [00:21<02:30,	2.91it/s]
Power Factorization: 13%	64/500 [00:22<02:26,	2.97it/s]
Power Factorization: 13%	65/500 [00:22<02:30,	2.89it/s]
Power Factorization: 13%	66/500 [00:22<02:36,	2.77it/s]
Power Factorization: 13%	67/500 [00:23<02:36,	2.77it/s]
Power Factorization: 14%	68/500 [00:23<02:37,	2.75it/s]
Power Factorization: 14%	69/500 [00:23<02:34,	2.80it/s]
Power Factorization: 14%	70/500 [00:24<02:35,	2.77it/s]
Power Factorization: 14%	71/500 [00:24<02:31,	2.83it/s]
Power Factorization: 14%	72/500 [00:24<02:30,	2.85it/s]
Power Factorization: 15%	73/500 [00:25<02:29,	2.85it/s]
Power Factorization: 15%	74/500 [00:25<02:24,	2.95it/s]
Power Factorization: 15%	75/500 [00:25<02:23,	2.97it/s]
Power Factorization: 15%	76/500 [00:26<02:26,	2.90it/s]
Power Factorization: 15%	77/500 [00:26<02:23,	2.95it/s]
Power Factorization: 16%	78/500 [00:26<02:18,	3.05it/s]
Power Factorization: 16%	79/500 [00:27<02:23,	2.93it/s]
Power Factorization: 16%	80/500 [00:27<02:24,	2.90it/s]
Power Factorization: 16%	81/500 [00:27<02:25,	2.88it/s]
Power Factorization: 16%	82/500 [00:28<02:24,	2.89it/s]

Power Factorization: 17%	83/500 [00:28<02:23, 2.91it/s]
Power Factorization: 17%	84/500 [00:28<02:18, 3.00it/s]
Power Factorization: 17%	85/500 [00:29<02:23, 2.90it/s]
Power Factorization: 17%	86/500 [00:29<02:24, 2.86it/s]
Power Factorization: 17%	87/500 [00:30<02:23, 2.87it/s]
Power Factorization: 18%	88/500 [00:30<02:30, 2.74it/s]
Power Factorization: 18%	89/500 [00:30<02:33, 2.69it/s]
Power Factorization: 18%	90/500 [00:31<02:41, 2.54it/s]
Power Factorization: 18%	91/500 [00:31<02:37, 2.60it/s]
Power Factorization: 18%	92/500 [00:31<02:28, 2.76it/s]
Power Factorization: 19%	93/500 [00:32<02:20, 2.89it/s]
Power Factorization: 19%	94/500 [00:32<02:24, 2.82it/s]
Power Factorization: 19%	95/500 [00:33<02:35, 2.60it/s]
Power Factorization: 19%	96/500 [00:33<02:42, 2.48it/s]
Power Factorization: 19%	97/500 [00:33<02:33, 2.62it/s]
Power Factorization: 20%	98/500 [00:34<02:26, 2.74it/s]
Power Factorization: 20%	99/500 [00:34<02:29, 2.68it/s]
Power Factorization: 20%	100/500 [00:34<02:25, 2.74it/s]
Power Factorization: 20%	101/500 [00:35<02:24, 2.76it/s]
Power Factorization: 20%	102/500 [00:35<02:21, 2.82it/s]
Power Factorization: 21%	103/500 [00:36<02:22, 2.78it/s]
Power Factorization: 21%	104/500 [00:36<02:21, 2.80it/s]
Power Factorization: 21%	105/500 [00:36<02:16, 2.90it/s]
Power Factorization: 21%	106/500 [00:37<02:18, 2.84it/s]

Power Factorization: 21%	107/500 [00:37<02:15, 2.90it/s]
Power Factorization: 22%	108/500 [00:37<02:13, 2.93it/s]
Power Factorization: 22%	109/500 [00:38<02:14, 2.90it/s]
Power Factorization: 22%	110/500 [00:38<02:12, 2.95it/s]
Power Factorization: 22%	111/500 [00:38<02:14, 2.90it/s]
Power Factorization: 22%	112/500 [00:39<02:14, 2.89it/s]
Power Factorization: 23%	113/500 [00:39<02:09, 2.98it/s]
Power Factorization: 23%	114/500 [00:39<02:10, 2.95it/s]
Power Factorization: 23%	115/500 [00:40<02:13, 2.89it/s]
Power Factorization: 23%	116/500 [00:40<02:15, 2.82it/s]
Power Factorization: 23%	117/500 [00:40<02:14, 2.85it/s]
Power Factorization: 24%	118/500 [00:41<02:18, 2.75it/s]
Power Factorization: 24%	119/500 [00:41<02:24, 2.63it/s]
Power Factorization: 24%	120/500 [00:41<02:19, 2.72it/s]
Power Factorization: 24%	121/500 [00:42<02:17, 2.75it/s]
Power Factorization: 24%	122/500 [00:42<02:25, 2.60it/s]
Power Factorization: 25%	123/500 [00:43<02:24, 2.61it/s]
Power Factorization: 25%	124/500 [00:43<02:20, 2.67it/s]
Power Factorization: 25%	125/500 [00:43<02:17, 2.73it/s]
Power Factorization: 25%	126/500 [00:44<02:17, 2.72it/s]
Power Factorization: 25%	127/500 [00:44<02:15, 2.76it/s]
Power Factorization: 26%	128/500 [00:44<02:12, 2.81it/s]
Power Factorization: 26%	129/500 [00:45<02:11, 2.81it/s]
Power Factorization: 26%	130/500 [00:45<02:12, 2.80it/s]

Power Factorization: 26%	131/500 [00:45<02:13, 2.77it/s]
Power Factorization: 26%	132/500 [00:46<02:12, 2.77it/s]
Power Factorization: 27%	133/500 [00:46<02:11, 2.80it/s]
Power Factorization: 27%	134/500 [00:47<02:09, 2.82it/s]
Power Factorization: 27%	135/500 [00:47<02:08, 2.83it/s]
Power Factorization: 27%	136/500 [00:47<02:06, 2.87it/s]
Power Factorization: 27%	137/500 [00:48<02:07, 2.84it/s]
Power Factorization: 28%	138/500 [00:48<02:13, 2.71it/s]
Power Factorization: 28%	139/500 [00:48<02:13, 2.71it/s]
Power Factorization: 28%	140/500 [00:49<02:11, 2.74it/s]
Power Factorization: 28%	141/500 [00:49<02:09, 2.77it/s]
Power Factorization: 28%	142/500 [00:49<02:09, 2.76it/s]
Power Factorization: 29%	143/500 [00:50<02:07, 2.81it/s]
Power Factorization: 29%	144/500 [00:50<02:02, 2.91it/s]
Power Factorization: 29%	145/500 [00:51<02:07, 2.78it/s]
Power Factorization: 29%	146/500 [00:51<02:07, 2.78it/s]
Power Factorization: 29%	147/500 [00:51<02:08, 2.76it/s]
Power Factorization: 30%	148/500 [00:52<02:04, 2.82it/s]
Power Factorization: 30%	149/500 [00:52<02:07, 2.76it/s]
Power Factorization: 30%	150/500 [00:52<02:09, 2.71it/s]
Power Factorization: 30%	151/500 [00:53<02:01, 2.87it/s]
Power Factorization: 30%	152/500 [00:53<02:04, 2.80it/s]
Power Factorization: 31%	153/500 [00:53<02:15, 2.56it/s]
Power Factorization: 31%	154/500 [00:54<02:12, 2.61it/s]

Power Factorization: 31%	155/500 [00:54<02:05, 2.76it/s]
Power Factorization: 31%	156/500 [00:54<01:58, 2.91it/s]
Power Factorization: 31%	157/500 [00:55<01:58, 2.90it/s]
Power Factorization: 32%	158/500 [00:55<02:03, 2.78it/s]
Power Factorization: 32%	159/500 [00:56<02:05, 2.72it/s]
Power Factorization: 32%	160/500 [00:56<02:05, 2.71it/s]
Power Factorization: 32%	161/500 [00:56<02:01, 2.80it/s]
Power Factorization: 32%	162/500 [00:57<02:03, 2.74it/s]
Power Factorization: 33%	163/500 [00:57<02:08, 2.63it/s]
Power Factorization: 33%	164/500 [00:57<02:08, 2.61it/s]
Power Factorization: 33%	165/500 [00:58<01:59, 2.79it/s]
Power Factorization: 33%	166/500 [00:58<01:58, 2.81it/s]
Power Factorization: 33%	167/500 [00:58<01:59, 2.80it/s]
Power Factorization: 34%	168/500 [00:59<02:01, 2.72it/s]
Power Factorization: 34%	169/500 [00:59<02:02, 2.70it/s]
Power Factorization: 34%	170/500 [01:00<02:05, 2.62it/s]
Power Factorization: 34%	171/500 [01:00<02:04, 2.65it/s]
Power Factorization: 34%	172/500 [01:00<02:01, 2.69it/s]
Power Factorization: 35%	173/500 [01:01<02:01, 2.69it/s]
Power Factorization: 35%	174/500 [01:01<01:59, 2.73it/s]
Power Factorization: 35%	175/500 [01:01<01:59, 2.71it/s]
Power Factorization: 35%	176/500 [01:02<01:59, 2.70it/s]
Power Factorization: 35%	177/500 [01:02<01:57, 2.75it/s]
Power Factorization: 36%	178/500 [01:03<01:55, 2.80it/s]

Power Factorization: 36%	179/500 [01:03<01:49, 2.92it/s]
Power Factorization: 36%	180/500 [01:03<01:48, 2.94it/s]
Power Factorization: 36%	181/500 [01:04<01:50, 2.88it/s]
Power Factorization: 36%	182/500 [01:04<01:51, 2.84it/s]
Power Factorization: 37%	183/500 [01:04<01:51, 2.85it/s]
Power Factorization: 37%	184/500 [01:05<01:52, 2.81it/s]
Power Factorization: 37%	185/500 [01:05<01:54, 2.75it/s]
Power Factorization: 37%	186/500 [01:05<01:56, 2.69it/s]
Power Factorization: 37%	187/500 [01:06<01:59, 2.61it/s]
Power Factorization: 38%	188/500 [01:06<01:54, 2.73it/s]
Power Factorization: 38%	189/500 [01:07<01:53, 2.75it/s]
Power Factorization: 38%	190/500 [01:07<01:58, 2.61it/s]
Power Factorization: 38%	191/500 [01:07<01:53, 2.71it/s]
Power Factorization: 38%	192/500 [01:08<01:51, 2.76it/s]
Power Factorization: 39%	193/500 [01:08<01:50, 2.78it/s]
Power Factorization: 39%	194/500 [01:08<01:56, 2.64it/s]
Power Factorization: 39%	195/500 [01:09<01:52, 2.72it/s]
Power Factorization: 39%	196/500 [01:09<01:50, 2.76it/s]
Power Factorization: 39%	197/500 [01:10<01:59, 2.53it/s]
Power Factorization: 40%	198/500 [01:10<01:56, 2.59it/s]
Power Factorization: 40%	199/500 [01:10<01:52, 2.69it/s]
Power Factorization: 40%	200/500 [01:11<01:51, 2.69it/s]
Power Factorization: 40%	201/500 [01:11<01:49, 2.72it/s]
Power Factorization: 40%	202/500 [01:11<01:46, 2.80it/s]

Power Factorization: 41%	203/500 [01:12<01:47, 2.77it/s]
Power Factorization: 41%	204/500 [01:12<01:47, 2.74it/s]
Power Factorization: 41%	205/500 [01:12<01:44, 2.82it/s]
Power Factorization: 41%	206/500 [01:13<01:43, 2.84it/s]
Power Factorization: 41%	207/500 [01:13<01:43, 2.84it/s]
Power Factorization: 42%	208/500 [01:13<01:41, 2.86it/s]
Power Factorization: 42%	209/500 [01:14<01:39, 2.92it/s]
Power Factorization: 42%	210/500 [01:14<01:43, 2.81it/s]
Power Factorization: 42%	211/500 [01:14<01:39, 2.91it/s]
Power Factorization: 42%	212/500 [01:15<01:42, 2.81it/s]
Power Factorization: 43%	213/500 [01:15<01:41, 2.84it/s]
Power Factorization: 43%	214/500 [01:15<01:36, 2.97it/s]
Power Factorization: 43%	215/500 [01:16<01:36, 2.94it/s]
Power Factorization: 43%	216/500 [01:16<01:35, 2.98it/s]
Power Factorization: 43%	217/500 [01:17<01:36, 2.93it/s]
Power Factorization: 44%	218/500 [01:17<01:35, 2.95it/s]
Power Factorization: 44%	219/500 [01:17<01:36, 2.91it/s]
Power Factorization: 44%	220/500 [01:18<01:37, 2.88it/s]
Power Factorization: 44%	221/500 [01:18<01:39, 2.80it/s]
Power Factorization: 44%	222/500 [01:18<01:40, 2.78it/s]
Power Factorization: 45%	223/500 [01:19<01:40, 2.76it/s]
Power Factorization: 45%	224/500 [01:19<01:35, 2.90it/s]
Power Factorization: 45%	225/500 [01:19<01:36, 2.85it/s]
Power Factorization: 45%	226/500 [01:20<01:36, 2.83it/s]

Power Factorization: 45%	227/500 [01:20<01:33, 2.92it/s]
Power Factorization: 46%	228/500 [01:20<01:32, 2.95it/s]
Power Factorization: 46%	229/500 [01:21<01:36, 2.79it/s]
Power Factorization: 46%	230/500 [01:21<01:36, 2.81it/s]
Power Factorization: 46%	231/500 [01:21<01:35, 2.82it/s]
Power Factorization: 46%	232/500 [01:22<01:35, 2.80it/s]
Power Factorization: 47%	233/500 [01:22<01:38, 2.70it/s]
Power Factorization: 47%	234/500 [01:23<01:43, 2.58it/s]
Power Factorization: 47%	235/500 [01:23<01:42, 2.58it/s]
Power Factorization: 47%	236/500 [01:23<01:38, 2.67it/s]
Power Factorization: 47%	237/500 [01:24<01:34, 2.78it/s]
Power Factorization: 48%	238/500 [01:24<01:36, 2.73it/s]
Power Factorization: 48%	239/500 [01:24<01:32, 2.83it/s]
Power Factorization: 48%	240/500 [01:25<01:30, 2.88it/s]
Power Factorization: 48%	241/500 [01:25<01:28, 2.92it/s]
Power Factorization: 48%	242/500 [01:25<01:30, 2.85it/s]
Power Factorization: 49%	243/500 [01:26<01:29, 2.88it/s]
Power Factorization: 49%	244/500 [01:26<01:30, 2.83it/s]
Power Factorization: 49%	245/500 [01:27<01:29, 2.83it/s]
Power Factorization: 49%	246/500 [01:27<01:32, 2.75it/s]
Power Factorization: 49%	247/500 [01:27<01:31, 2.76it/s]
Power Factorization: 50%	248/500 [01:28<01:32, 2.73it/s]
Power Factorization: 50%	249/500 [01:28<01:34, 2.67it/s]
Power Factorization: 50%	250/500 [01:28<01:35, 2.61it/s]

Power Factorization: 50%	251/500 [01:29<01:33, 2.67it/s]
Power Factorization: 50%	252/500 [01:29<01:30, 2.75it/s]
Power Factorization: 51%	253/500 [01:30<01:31, 2.70it/s]
Power Factorization: 51%	254/500 [01:30<01:29, 2.76it/s]
Power Factorization: 51%	255/500 [01:30<01:29, 2.73it/s]
Power Factorization: 51%	256/500 [01:31<01:31, 2.67it/s]
Power Factorization: 51%	257/500 [01:31<01:29, 2.73it/s]
Power Factorization: 52%	258/500 [01:31<01:34, 2.57it/s]
Power Factorization: 52%	259/500 [01:32<01:29, 2.69it/s]
Power Factorization: 52%	260/500 [01:32<01:28, 2.72it/s]
Power Factorization: 52%	261/500 [01:33<01:32, 2.59it/s]
Power Factorization: 52%	262/500 [01:33<01:32, 2.56it/s]
Power Factorization: 53%	263/500 [01:33<01:31, 2.59it/s]
Power Factorization: 53%	264/500 [01:34<01:27, 2.70it/s]
Power Factorization: 53%	265/500 [01:34<01:23, 2.81it/s]
Power Factorization: 53%	266/500 [01:34<01:26, 2.70it/s]
Power Factorization: 53%	267/500 [01:35<01:26, 2.69it/s]
Power Factorization: 54%	268/500 [01:35<01:25, 2.71it/s]
Power Factorization: 54%	269/500 [01:35<01:26, 2.67it/s]
Power Factorization: 54%	270/500 [01:36<01:25, 2.68it/s]
Power Factorization: 54%	271/500 [01:36<01:22, 2.79it/s]
Power Factorization: 54%	272/500 [01:37<01:21, 2.80it/s]
Power Factorization: 55%	273/500 [01:37<01:20, 2.82it/s]
Power Factorization: 55%	274/500 [01:37<01:23, 2.70it/s]

Power Factorization: 55%	275/500 [01:38<01:22, 2.73it/s]
Power Factorization: 55%	276/500 [01:38<01:20, 2.77it/s]
Power Factorization: 55%	277/500 [01:38<01:23, 2.69it/s]
Power Factorization: 56%	278/500 [01:39<01:22, 2.68it/s]
Power Factorization: 56%	279/500 [01:39<01:23, 2.65it/s]
Power Factorization: 56%	280/500 [01:40<01:21, 2.68it/s]
Power Factorization: 56%	281/500 [01:40<01:22, 2.66it/s]
Power Factorization: 56%	282/500 [01:40<01:20, 2.72it/s]
Power Factorization: 57%	283/500 [01:41<01:17, 2.80it/s]
Power Factorization: 57%	284/500 [01:41<01:17, 2.80it/s]
Power Factorization: 57%	285/500 [01:41<01:17, 2.76it/s]
Power Factorization: 57%	286/500 [01:42<01:15, 2.82it/s]
Power Factorization: 57%	287/500 [01:42<01:16, 2.77it/s]
Power Factorization: 58%	288/500 [01:42<01:15, 2.82it/s]
Power Factorization: 58%	289/500 [01:43<01:16, 2.75it/s]
Power Factorization: 58%	290/500 [01:43<01:15, 2.78it/s]
Power Factorization: 58%	291/500 [01:43<01:13, 2.83it/s]
Power Factorization: 58%	292/500 [01:44<01:16, 2.71it/s]
Power Factorization: 59%	293/500 [01:44<01:19, 2.62it/s]
Power Factorization: 59%	294/500 [01:45<01:16, 2.69it/s]
Power Factorization: 59%	295/500 [01:45<01:15, 2.71it/s]
Power Factorization: 59%	296/500 [01:45<01:14, 2.73it/s]
Power Factorization: 59%	297/500 [01:46<01:12, 2.78it/s]
Power Factorization: 60%	298/500 [01:46<01:12, 2.78it/s]

Power Factorization: 60%	299/500 [01:46<01:12, 2.79it/s]
Power Factorization: 60%	300/500 [01:47<01:11, 2.80it/s]
Power Factorization: 60%	301/500 [01:47<01:15, 2.62it/s]
Power Factorization: 60%	302/500 [01:48<01:15, 2.64it/s]
Power Factorization: 61%	303/500 [01:48<01:13, 2.69it/s]
Power Factorization: 61%	304/500 [01:48<01:13, 2.67it/s]
Power Factorization: 61%	305/500 [01:49<01:16, 2.54it/s]
Power Factorization: 61%	306/500 [01:49<01:14, 2.59it/s]
Power Factorization: 61%	307/500 [01:49<01:11, 2.69it/s]
Power Factorization: 62%	308/500 [01:50<01:09, 2.74it/s]
Power Factorization: 62%	309/500 [01:50<01:08, 2.80it/s]
Power Factorization: 62%	310/500 [01:50<01:06, 2.84it/s]
Power Factorization: 62%	311/500 [01:51<01:06, 2.85it/s]
Power Factorization: 62%	312/500 [01:51<01:12, 2.59it/s]
Power Factorization: 63%	313/500 [01:52<01:11, 2.60it/s]
Power Factorization: 63%	314/500 [01:52<01:13, 2.54it/s]
Power Factorization: 63%	315/500 [01:52<01:11, 2.59it/s]
Power Factorization: 63%	316/500 [01:53<01:08, 2.70it/s]
Power Factorization: 63%	317/500 [01:53<01:08, 2.68it/s]
Power Factorization: 64%	318/500 [01:54<01:08, 2.67it/s]
Power Factorization: 64%	319/500 [01:54<01:11, 2.53it/s]
Power Factorization: 64%	320/500 [01:54<01:11, 2.50it/s]
Power Factorization: 64%	321/500 [01:55<01:08, 2.59it/s]
Power Factorization: 64%	322/500 [01:55<01:06, 2.68it/s]

Power Factorization: 65%	323/500 [01:55<01:05, 2.71it/s]
Power Factorization: 65%	324/500 [01:56<01:04, 2.74it/s]
Power Factorization: 65%	325/500 [01:56<01:06, 2.64it/s]
Power Factorization: 65%	326/500 [01:57<01:05, 2.64it/s]
Power Factorization: 65%	327/500 [01:57<01:05, 2.63it/s]
Power Factorization: 66%	328/500 [01:57<01:03, 2.71it/s]
Power Factorization: 66%	329/500 [01:58<01:01, 2.77it/s]
Power Factorization: 66%	330/500 [01:58<00:58, 2.89it/s]
Power Factorization: 66%	331/500 [01:58<00:58, 2.89it/s]
Power Factorization: 66%	332/500 [01:59<01:00, 2.79it/s]
Power Factorization: 67%	333/500 [01:59<00:57, 2.88it/s]
Power Factorization: 67%	334/500 [01:59<00:56, 2.92it/s]
Power Factorization: 67%	335/500 [02:00<00:59, 2.79it/s]
Power Factorization: 67%	336/500 [02:00<01:00, 2.70it/s]
Power Factorization: 67%	337/500 [02:00<00:58, 2.78it/s]
Power Factorization: 68%	338/500 [02:01<00:57, 2.84it/s]
Power Factorization: 68%	339/500 [02:01<00:56, 2.84it/s]
Power Factorization: 68%	340/500 [02:02<00:57, 2.78it/s]
Power Factorization: 68%	341/500 [02:02<01:00, 2.63it/s]
Power Factorization: 68%	342/500 [02:02<00:58, 2.71it/s]
Power Factorization: 69%	343/500 [02:03<00:59, 2.64it/s]
Power Factorization: 69%	344/500 [02:03<01:00, 2.56it/s]
Power Factorization: 69%	345/500 [02:03<00:57, 2.69it/s]
Power Factorization: 69%	346/500 [02:04<00:53, 2.88it/s]

Power Factorization: 69%	347/500 [02:04<00:53, 2.86it/s]
Power Factorization: 70%	348/500 [02:04<00:54, 2.79it/s]
Power Factorization: 70%	349/500 [02:05<00:54, 2.80it/s]
Power Factorization: 70%	350/500 [02:05<00:53, 2.78it/s]
Power Factorization: 70%	351/500 [02:06<00:54, 2.74it/s]
Power Factorization: 70%	352/500 [02:06<00:52, 2.82it/s]
Power Factorization: 71%	353/500 [02:06<00:51, 2.85it/s]
Power Factorization: 71%	354/500 [02:07<00:51, 2.83it/s]
Power Factorization: 71%	355/500 [02:07<00:53, 2.73it/s]
Power Factorization: 71%	356/500 [02:07<00:55, 2.57it/s]
Power Factorization: 71%	357/500 [02:08<00:53, 2.66it/s]
Power Factorization: 72%	358/500 [02:08<00:52, 2.70it/s]
Power Factorization: 72%	359/500 [02:08<00:50, 2.80it/s]
Power Factorization: 72%	360/500 [02:09<00:50, 2.80it/s]
Power Factorization: 72%	361/500 [02:09<00:49, 2.81it/s]
Power Factorization: 72%	362/500 [02:10<00:48, 2.86it/s]
Power Factorization: 73%	363/500 [02:10<00:46, 2.92it/s]
Power Factorization: 73%	364/500 [02:10<00:48, 2.82it/s]
Power Factorization: 73%	365/500 [02:11<00:48, 2.76it/s]
Power Factorization: 73%	366/500 [02:11<00:46, 2.87it/s]
Power Factorization: 73%	367/500 [02:11<00:46, 2.85it/s]
Power Factorization: 74%	368/500 [02:12<00:47, 2.79it/s]
Power Factorization: 74%	369/500 [02:12<00:45, 2.87it/s]
Power Factorization: 74%	370/500 [02:12<00:47, 2.72it/s]

Power Factorization: 74%	371/500 [02:13<00:46, 2.76it/s]
Power Factorization: 74%	372/500 [02:13<00:46, 2.76it/s]
Power Factorization: 75%	373/500 [02:14<00:51, 2.49it/s]
Power Factorization: 75%	374/500 [02:14<00:49, 2.56it/s]
Power Factorization: 75%	375/500 [02:14<00:49, 2.54it/s]
Power Factorization: 75%	376/500 [02:15<00:47, 2.61it/s]
Power Factorization: 75%	377/500 [02:15<00:45, 2.71it/s]
Power Factorization: 76%	378/500 [02:15<00:44, 2.72it/s]
Power Factorization: 76%	379/500 [02:16<00:44, 2.71it/s]
Power Factorization: 76%	380/500 [02:16<00:42, 2.79it/s]
Power Factorization: 76%	381/500 [02:16<00:41, 2.85it/s]
Power Factorization: 76%	382/500 [02:17<00:42, 2.79it/s]
Power Factorization: 77%	383/500 [02:17<00:42, 2.77it/s]
Power Factorization: 77%	384/500 [02:18<00:42, 2.74it/s]
Power Factorization: 77%	385/500 [02:18<00:42, 2.68it/s]
Power Factorization: 77%	386/500 [02:18<00:41, 2.72it/s]
Power Factorization: 77%	387/500 [02:19<00:45, 2.51it/s]
Power Factorization: 78%	388/500 [02:19<00:44, 2.53it/s]
Power Factorization: 78%	389/500 [02:20<00:42, 2.58it/s]
Power Factorization: 78%	390/500 [02:20<00:41, 2.62it/s]
Power Factorization: 78%	391/500 [02:20<00:39, 2.73it/s]
Power Factorization: 78%	392/500 [02:21<00:39, 2.76it/s]
Power Factorization: 79%	393/500 [02:21<00:38, 2.79it/s]
Power Factorization: 79%	394/500 [02:21<00:38, 2.78it/s]

Power Factorization: 79%	395/500 [02:22<00:38, 2.72it/s]
Power Factorization: 79%	396/500 [02:22<00:37, 2.74it/s]
Power Factorization: 79%	397/500 [02:22<00:37, 2.77it/s]
Power Factorization: 80%	398/500 [02:23<00:36, 2.82it/s]
Power Factorization: 80%	399/500 [02:23<00:37, 2.70it/s]
Power Factorization: 80%	400/500 [02:24<00:36, 2.71it/s]
Power Factorization: 80%	401/500 [02:24<00:35, 2.81it/s]
Power Factorization: 80%	402/500 [02:24<00:33, 2.89it/s]
Power Factorization: 81%	403/500 [02:24<00:31, 3.04it/s]
Power Factorization: 81%	404/500 [02:25<00:33, 2.91it/s]
Power Factorization: 81%	405/500 [02:25<00:32, 2.92it/s]
Power Factorization: 81%	406/500 [02:26<00:33, 2.84it/s]
Power Factorization: 81%	407/500 [02:26<00:32, 2.87it/s]
Power Factorization: 82%	408/500 [02:26<00:32, 2.84it/s]
Power Factorization: 82%	409/500 [02:27<00:32, 2.80it/s]
Power Factorization: 82%	410/500 [02:27<00:32, 2.77it/s]
Power Factorization: 82%	411/500 [02:27<00:33, 2.63it/s]
Power Factorization: 82%	412/500 [02:28<00:32, 2.68it/s]
Power Factorization: 83%	413/500 [02:28<00:32, 2.68it/s]
Power Factorization: 83%	414/500 [02:29<00:32, 2.65it/s]
Power Factorization: 83%	415/500 [02:29<00:31, 2.72it/s]
Power Factorization: 83%	416/500 [02:29<00:31, 2.70it/s]
Power Factorization: 83%	417/500 [02:30<00:31, 2.63it/s]
Power Factorization: 84%	418/500 [02:30<00:30, 2.69it/s]

Power Factorization: 84%	419/500 [02:30<00:30,	2.69it/s]
Power Factorization: 84%	420/500 [02:31<00:29,	2.72it/s]
Power Factorization: 84%	421/500 [02:31<00:29,	2.71it/s]
Power Factorization: 84%	422/500 [02:32<00:29,	2.65it/s]
Power Factorization: 85%	423/500 [02:32<00:28,	2.70it/s]
Power Factorization: 85%	424/500 [02:32<00:29,	2.58it/s]
Power Factorization: 85%	425/500 [02:33<00:28,	2.65it/s]
Power Factorization: 85%	426/500 [02:33<00:27,	2.65it/s]
Power Factorization: 85%	427/500 [02:33<00:27,	2.62it/s]
Power Factorization: 86%	428/500 [02:34<00:26,	2.67it/s]
Power Factorization: 86%	429/500 [02:34<00:26,	2.70it/s]
Power Factorization: 86%	430/500 [02:35<00:26,	2.66it/s]
Power Factorization: 86%	431/500 [02:35<00:25,	2.68it/s]
Power Factorization: 86%	432/500 [02:35<00:24,	2.73it/s]
Power Factorization: 87%	433/500 [02:36<00:24,	2.72it/s]
Power Factorization: 87%	434/500 [02:36<00:24,	2.74it/s]
Power Factorization: 87%	435/500 [02:36<00:22,	2.88it/s]
Power Factorization: 87%	436/500 [02:37<00:23,	2.76it/s]
Power Factorization: 87%	437/500 [02:37<00:22,	2.75it/s]
Power Factorization: 88%	438/500 [02:37<00:22,	2.82it/s]
Power Factorization: 88%	439/500 [02:38<00:22,	2.69it/s]
Power Factorization: 88%	440/500 [02:38<00:22,	2.69it/s]
Power Factorization: 88%	441/500 [02:39<00:22,	2.65it/s]
Power Factorization: 88%	442/500 [02:39<00:22,	2.63it/s]

Power Factorization: 89%	443/500 [02:39<00:20,	2.74it/s]
Power Factorization: 89%	444/500 [02:40<00:20,	2.75it/s]
Power Factorization: 89%	445/500 [02:40<00:20,	2.72it/s]
Power Factorization: 89%	446/500 [02:40<00:19,	2.76it/s]
Power Factorization: 89%	447/500 [02:41<00:19,	2.77it/s]
Power Factorization: 90%	448/500 [02:41<00:19,	2.71it/s]
Power Factorization: 90%	449/500 [02:42<00:19,	2.63it/s]
Power Factorization: 90%	450/500 [02:42<00:18,	2.74it/s]
Power Factorization: 90%	451/500 [02:42<00:18,	2.71it/s]
Power Factorization: 90%	452/500 [02:43<00:17,	2.78it/s]
Power Factorization: 91%	453/500 [02:43<00:17,	2.75it/s]
Power Factorization: 91%	454/500 [02:43<00:17,	2.70it/s]
Power Factorization: 91%	455/500 [02:44<00:16,	2.72it/s]
Power Factorization: 91%	456/500 [02:44<00:15,	2.87it/s]
Power Factorization: 91%	457/500 [02:44<00:15,	2.84it/s]
Power Factorization: 92%	458/500 [02:45<00:15,	2.74it/s]
Power Factorization: 92%	459/500 [02:45<00:14,	2.75it/s]
Power Factorization: 92%	460/500 [02:45<00:14,	2.78it/s]
Power Factorization: 92%	461/500 [02:46<00:14,	2.76it/s]
Power Factorization: 92%	462/500 [02:46<00:14,	2.60it/s]
Power Factorization: 93%	463/500 [02:47<00:14,	2.60it/s]
Power Factorization: 93%	464/500 [02:47<00:13,	2.65it/s]
Power Factorization: 93%	465/500 [02:47<00:12,	2.69it/s]
Power Factorization: 93%	466/500 [02:48<00:12,	2.67it/s]

Power Factorization: 93%	467/500 [02:48<00:12, 2.70it/s]
Power Factorization: 94%	468/500 [02:48<00:11, 2.73it/s]
Power Factorization: 94%	469/500 [02:49<00:10, 2.85it/s]
Power Factorization: 94%	470/500 [02:49<00:10, 2.84it/s]
Power Factorization: 94%	471/500 [02:49<00:10, 2.87it/s]
Power Factorization: 94%	472/500 [02:50<00:09, 2.84it/s]
Power Factorization: 95%	473/500 [02:50<00:09, 2.87it/s]
Power Factorization: 95%	474/500 [02:51<00:09, 2.75it/s]
Power Factorization: 95%	475/500 [02:51<00:09, 2.67it/s]
Power Factorization: 95%	476/500 [02:51<00:08, 2.75it/s]
Power Factorization: 95%	477/500 [02:52<00:08, 2.84it/s]
Power Factorization: 96%	478/500 [02:52<00:07, 2.83it/s]
Power Factorization: 96%	479/500 [02:52<00:07, 2.79it/s]
Power Factorization: 96%	480/500 [02:53<00:07, 2.80it/s]
Power Factorization: 96%	481/500 [02:53<00:06, 2.78it/s]
Power Factorization: 96%	482/500 [02:53<00:06, 2.78it/s]
Power Factorization: 97%	483/500 [02:54<00:06, 2.67it/s]
Power Factorization: 97%	484/500 [02:54<00:05, 2.74it/s]
Power Factorization: 97%	485/500 [02:55<00:05, 2.72it/s]
Power Factorization: 97%	486/500 [02:55<00:05, 2.71it/s]
Power Factorization: 97%	487/500 [02:55<00:04, 2.66it/s]
Power Factorization: 98%	488/500 [02:56<00:04, 2.62it/s]
Power Factorization: 98%	489/500 [02:56<00:04, 2.70it/s]
Power Factorization: 98%	490/500 [02:56<00:03, 2.81it/s]

Power Factorization: 98%| | 491/500 [02:57<00:03, 2.75it/s]

Power Factorization: 98%| | 492/500 [02:57<00:02, 2.79it/s]

Power Factorization: 99%| | 493/500 [02:57<00:02, 2.85it/s]

Power Factorization: 99%| | 494/500 [02:58<00:02, 2.85it/s]

Power Factorization: 99%| | 495/500 [02:58<00:01, 2.85it/s]

Power Factorization: 99%| | 496/500 [02:58<00:01, 2.99it/s]

Power Factorization: 99%| | 497/500 [02:59<00:01, 2.84it/s]

Power Factorization: 100%| | 498/500 [02:59<00:00, 2.78it/s]

Power Factorization: 100%| | 499/500 [03:00<00:00, 2.68it/s]

Power Factorization: 100%| | 500/500 [03:00<00:00, 2.77it/s]

Cross Validation: 60%| | 3/5 [08:33<05:45, 172.70s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<03:03, 2.71it/s]

Power Factorization: 0%| | 2/500 [00:00<02:58, 2.78it/s]

Power Factorization: 1%| | 3/500 [00:01<03:01, 2.74it/s]

Power Factorization: 1%| | 4/500 [00:01<03:06, 2.66it/s]

Power Factorization: 1%| | 5/500 [00:01<03:04, 2.69it/s]

Power Factorization: 1%| | 6/500 [00:02<03:00, 2.73it/s]

Power Factorization: 1%| | 7/500 [00:02<03:02, 2.70it/s]

Power Factorization: 2%| | 8/500 [00:02<03:05, 2.66it/s]

Power Factorization: 2%| | 9/500 [00:03<03:05, 2.65it/s]

Power Factorization: 2%| | 10/500 [00:03<03:07, 2.61it/s]

Power Factorization: 2%| | 11/500 [00:04<03:14, 2.51it/s]

Power Factorization: 2%| | 12/500 [00:04<03:05, 2.63it/s]

Power Factorization:	3%	13/500	[00:04<03:03, 2.66it/s]
Power Factorization:	3%	14/500	[00:05<03:01, 2.68it/s]
Power Factorization:	3%	15/500	[00:05<03:05, 2.62it/s]
Power Factorization:	3%	16/500	[00:06<03:00, 2.68it/s]
Power Factorization:	3%	17/500	[00:06<03:04, 2.62it/s]
Power Factorization:	4%	18/500	[00:07<03:35, 2.24it/s]
Power Factorization:	4%	19/500	[00:07<03:37, 2.21it/s]
Power Factorization:	4%	20/500	[00:07<03:28, 2.30it/s]
Power Factorization:	4%	21/500	[00:08<03:08, 2.54it/s]
Power Factorization:	4%	22/500	[00:08<03:01, 2.63it/s]
Power Factorization:	5%	23/500	[00:08<02:57, 2.69it/s]
Power Factorization:	5%	24/500	[00:09<02:58, 2.66it/s]
Power Factorization:	5%	25/500	[00:09<03:12, 2.47it/s]
Power Factorization:	5%	26/500	[00:10<03:28, 2.27it/s]
Power Factorization:	5%	27/500	[00:10<03:15, 2.41it/s]
Power Factorization:	6%	28/500	[00:10<03:07, 2.51it/s]
Power Factorization:	6%	29/500	[00:11<03:42, 2.12it/s]
Power Factorization:	6%	30/500	[00:11<03:25, 2.29it/s]
Power Factorization:	6%	31/500	[00:12<03:15, 2.40it/s]
Power Factorization:	6%	32/500	[00:12<03:11, 2.44it/s]
Power Factorization:	7%	33/500	[00:13<03:08, 2.48it/s]
Power Factorization:	7%	34/500	[00:13<03:07, 2.48it/s]
Power Factorization:	7%	35/500	[00:13<02:58, 2.61it/s]
Power Factorization:	7%	36/500	[00:14<02:53, 2.67it/s]

Power Factorization:	7%	37/500 [00:14<02:51,	2.70it/s]
Power Factorization:	8%	38/500 [00:14<02:48,	2.74it/s]
Power Factorization:	8%	39/500 [00:15<02:48,	2.74it/s]
Power Factorization:	8%	40/500 [00:15<02:48,	2.74it/s]
Power Factorization:	8%	41/500 [00:16<02:50,	2.69it/s]
Power Factorization:	8%	42/500 [00:16<02:46,	2.75it/s]
Power Factorization:	9%	43/500 [00:16<02:40,	2.85it/s]
Power Factorization:	9%	44/500 [00:17<02:40,	2.84it/s]
Power Factorization:	9%	45/500 [00:17<02:40,	2.83it/s]
Power Factorization:	9%	46/500 [00:17<02:40,	2.82it/s]
Power Factorization:	9%	47/500 [00:18<02:40,	2.82it/s]
Power Factorization:	10%	48/500 [00:18<02:51,	2.64it/s]
Power Factorization:	10%	49/500 [00:18<02:44,	2.75it/s]
Power Factorization:	10%	50/500 [00:19<02:43,	2.75it/s]
Power Factorization:	10%	51/500 [00:19<02:44,	2.73it/s]
Power Factorization:	10%	52/500 [00:19<02:45,	2.71it/s]
Power Factorization:	11%	53/500 [00:20<02:44,	2.71it/s]
Power Factorization:	11%	54/500 [00:20<02:43,	2.72it/s]
Power Factorization:	11%	55/500 [00:21<02:50,	2.61it/s]
Power Factorization:	11%	56/500 [00:21<02:49,	2.62it/s]
Power Factorization:	11%	57/500 [00:21<02:44,	2.69it/s]
Power Factorization:	12%	58/500 [00:22<02:41,	2.73it/s]
Power Factorization:	12%	59/500 [00:22<02:41,	2.73it/s]
Power Factorization:	12%	60/500 [00:22<02:38,	2.77it/s]

Power Factorization: 12%	61/500 [00:23<02:37,	2.79it/s]
Power Factorization: 12%	62/500 [00:23<02:44,	2.67it/s]
Power Factorization: 13%	63/500 [00:24<02:34,	2.83it/s]
Power Factorization: 13%	64/500 [00:24<02:43,	2.66it/s]
Power Factorization: 13%	65/500 [00:24<02:44,	2.65it/s]
Power Factorization: 13%	66/500 [00:25<02:44,	2.64it/s]
Power Factorization: 13%	67/500 [00:25<02:50,	2.54it/s]
Power Factorization: 14%	68/500 [00:26<02:51,	2.52it/s]
Power Factorization: 14%	69/500 [00:26<02:46,	2.59it/s]
Power Factorization: 14%	70/500 [00:26<02:42,	2.64it/s]
Power Factorization: 14%	71/500 [00:27<02:46,	2.58it/s]
Power Factorization: 14%	72/500 [00:27<02:43,	2.62it/s]
Power Factorization: 15%	73/500 [00:27<02:37,	2.71it/s]
Power Factorization: 15%	74/500 [00:28<02:43,	2.60it/s]
Power Factorization: 15%	75/500 [00:28<02:49,	2.51it/s]
Power Factorization: 15%	76/500 [00:29<02:46,	2.55it/s]
Power Factorization: 15%	77/500 [00:29<02:42,	2.61it/s]
Power Factorization: 16%	78/500 [00:29<02:39,	2.65it/s]
Power Factorization: 16%	79/500 [00:30<02:34,	2.72it/s]
Power Factorization: 16%	80/500 [00:30<02:34,	2.73it/s]
Power Factorization: 16%	81/500 [00:30<02:38,	2.65it/s]
Power Factorization: 16%	82/500 [00:31<02:34,	2.71it/s]
Power Factorization: 17%	83/500 [00:31<02:31,	2.75it/s]
Power Factorization: 17%	84/500 [00:32<02:35,	2.67it/s]

Power Factorization: 17%	85/500 [00:32<02:35, 2.68it/s]
Power Factorization: 17%	86/500 [00:32<02:34, 2.68it/s]
Power Factorization: 17%	87/500 [00:33<02:40, 2.57it/s]
Power Factorization: 18%	88/500 [00:33<02:36, 2.63it/s]
Power Factorization: 18%	89/500 [00:33<02:31, 2.71it/s]
Power Factorization: 18%	90/500 [00:34<02:32, 2.70it/s]
Power Factorization: 18%	91/500 [00:34<02:36, 2.61it/s]
Power Factorization: 18%	92/500 [00:35<02:31, 2.69it/s]
Power Factorization: 19%	93/500 [00:35<02:35, 2.62it/s]
Power Factorization: 19%	94/500 [00:35<02:31, 2.68it/s]
Power Factorization: 19%	95/500 [00:36<02:30, 2.69it/s]
Power Factorization: 19%	96/500 [00:36<02:31, 2.67it/s]
Power Factorization: 19%	97/500 [00:36<02:28, 2.72it/s]
Power Factorization: 20%	98/500 [00:37<02:32, 2.63it/s]
Power Factorization: 20%	99/500 [00:37<02:30, 2.67it/s]
Power Factorization: 20%	100/500 [00:38<02:31, 2.65it/s]
Power Factorization: 20%	101/500 [00:38<02:25, 2.74it/s]
Power Factorization: 20%	102/500 [00:38<02:29, 2.66it/s]
Power Factorization: 21%	103/500 [00:39<02:36, 2.54it/s]
Power Factorization: 21%	104/500 [00:39<02:29, 2.64it/s]
Power Factorization: 21%	105/500 [00:39<02:25, 2.71it/s]
Power Factorization: 21%	106/500 [00:40<02:25, 2.71it/s]
Power Factorization: 21%	107/500 [00:40<02:18, 2.85it/s]
Power Factorization: 22%	108/500 [00:40<02:22, 2.75it/s]

Power Factorization: 22%	109/500 [00:41<02:23, 2.73it/s]
Power Factorization: 22%	110/500 [00:41<02:18, 2.81it/s]
Power Factorization: 22%	111/500 [00:42<02:23, 2.71it/s]
Power Factorization: 22%	112/500 [00:42<02:23, 2.71it/s]
Power Factorization: 23%	113/500 [00:42<02:22, 2.72it/s]
Power Factorization: 23%	114/500 [00:43<02:21, 2.72it/s]
Power Factorization: 23%	115/500 [00:43<02:24, 2.67it/s]
Power Factorization: 23%	116/500 [00:43<02:22, 2.70it/s]
Power Factorization: 23%	117/500 [00:44<02:18, 2.77it/s]
Power Factorization: 24%	118/500 [00:44<02:24, 2.64it/s]
Power Factorization: 24%	119/500 [00:45<02:26, 2.60it/s]
Power Factorization: 24%	120/500 [00:45<02:23, 2.65it/s]
Power Factorization: 24%	121/500 [00:45<02:23, 2.64it/s]
Power Factorization: 24%	122/500 [00:46<02:18, 2.72it/s]
Power Factorization: 25%	123/500 [00:46<02:20, 2.68it/s]
Power Factorization: 25%	124/500 [00:46<02:18, 2.71it/s]
Power Factorization: 25%	125/500 [00:47<02:18, 2.70it/s]
Power Factorization: 25%	126/500 [00:47<02:21, 2.65it/s]
Power Factorization: 25%	127/500 [00:48<02:16, 2.73it/s]
Power Factorization: 26%	128/500 [00:48<02:15, 2.75it/s]
Power Factorization: 26%	129/500 [00:48<02:12, 2.80it/s]
Power Factorization: 26%	130/500 [00:49<02:11, 2.82it/s]
Power Factorization: 26%	131/500 [00:49<02:15, 2.72it/s]
Power Factorization: 26%	132/500 [00:49<02:11, 2.79it/s]

Power Factorization: 27%	133/500 [00:50<02:08, 2.85it/s]
Power Factorization: 27%	134/500 [00:50<02:08, 2.84it/s]
Power Factorization: 27%	135/500 [00:50<02:07, 2.86it/s]
Power Factorization: 27%	136/500 [00:51<02:13, 2.73it/s]
Power Factorization: 27%	137/500 [00:51<02:21, 2.57it/s]
Power Factorization: 28%	138/500 [00:52<02:25, 2.48it/s]
Power Factorization: 28%	139/500 [00:52<02:19, 2.59it/s]
Power Factorization: 28%	140/500 [00:52<02:18, 2.61it/s]
Power Factorization: 28%	141/500 [00:53<02:14, 2.67it/s]
Power Factorization: 28%	142/500 [00:53<02:12, 2.70it/s]
Power Factorization: 29%	143/500 [00:53<02:16, 2.61it/s]
Power Factorization: 29%	144/500 [00:54<02:16, 2.60it/s]
Power Factorization: 29%	145/500 [00:54<02:13, 2.66it/s]
Power Factorization: 29%	146/500 [00:55<02:16, 2.60it/s]
Power Factorization: 29%	147/500 [00:55<02:10, 2.71it/s]
Power Factorization: 30%	148/500 [00:55<02:05, 2.80it/s]
Power Factorization: 30%	149/500 [00:56<02:08, 2.74it/s]
Power Factorization: 30%	150/500 [00:56<02:05, 2.79it/s]
Power Factorization: 30%	151/500 [00:56<01:58, 2.95it/s]
Power Factorization: 30%	152/500 [00:57<01:57, 2.97it/s]
Power Factorization: 31%	153/500 [00:57<01:55, 2.99it/s]
Power Factorization: 31%	154/500 [00:57<01:57, 2.96it/s]
Power Factorization: 31%	155/500 [00:58<02:00, 2.87it/s]
Power Factorization: 31%	156/500 [00:58<02:01, 2.84it/s]

Power Factorization: 31%	157/500 [00:58<02:03, 2.78it/s]
Power Factorization: 32%	158/500 [00:59<02:02, 2.79it/s]
Power Factorization: 32%	159/500 [00:59<02:08, 2.66it/s]
Power Factorization: 32%	160/500 [01:00<02:10, 2.61it/s]
Power Factorization: 32%	161/500 [01:00<02:11, 2.57it/s]
Power Factorization: 32%	162/500 [01:00<02:08, 2.62it/s]
Power Factorization: 33%	163/500 [01:01<02:08, 2.62it/s]
Power Factorization: 33%	164/500 [01:01<02:07, 2.64it/s]
Power Factorization: 33%	165/500 [01:02<02:14, 2.48it/s]
Power Factorization: 33%	166/500 [01:02<02:10, 2.55it/s]
Power Factorization: 33%	167/500 [01:02<02:10, 2.56it/s]
Power Factorization: 34%	168/500 [01:03<02:05, 2.65it/s]
Power Factorization: 34%	169/500 [01:03<02:02, 2.70it/s]
Power Factorization: 34%	170/500 [01:03<02:01, 2.71it/s]
Power Factorization: 34%	171/500 [01:04<02:01, 2.71it/s]
Power Factorization: 34%	172/500 [01:04<02:00, 2.73it/s]
Power Factorization: 35%	173/500 [01:05<02:01, 2.70it/s]
Power Factorization: 35%	174/500 [01:05<02:00, 2.72it/s]
Power Factorization: 35%	175/500 [01:05<01:57, 2.77it/s]
Power Factorization: 35%	176/500 [01:06<01:58, 2.73it/s]
Power Factorization: 35%	177/500 [01:06<01:54, 2.81it/s]
Power Factorization: 36%	178/500 [01:06<01:47, 3.00it/s]
Power Factorization: 36%	179/500 [01:07<01:50, 2.92it/s]
Power Factorization: 36%	180/500 [01:07<01:49, 2.93it/s]

Power Factorization: 36%	181/500 [01:07<01:44, 3.06it/s]
Power Factorization: 36%	182/500 [01:08<01:42, 3.09it/s]
Power Factorization: 37%	183/500 [01:08<01:47, 2.96it/s]
Power Factorization: 37%	184/500 [01:08<01:49, 2.89it/s]
Power Factorization: 37%	185/500 [01:09<01:48, 2.90it/s]
Power Factorization: 37%	186/500 [01:09<01:53, 2.78it/s]
Power Factorization: 37%	187/500 [01:09<01:49, 2.86it/s]
Power Factorization: 38%	188/500 [01:10<01:50, 2.81it/s]
Power Factorization: 38%	189/500 [01:10<01:51, 2.78it/s]
Power Factorization: 38%	190/500 [01:10<01:50, 2.79it/s]
Power Factorization: 38%	191/500 [01:11<01:54, 2.70it/s]
Power Factorization: 38%	192/500 [01:11<01:52, 2.74it/s]
Power Factorization: 39%	193/500 [01:12<01:48, 2.84it/s]
Power Factorization: 39%	194/500 [01:12<01:51, 2.74it/s]
Power Factorization: 39%	195/500 [01:12<01:51, 2.74it/s]
Power Factorization: 39%	196/500 [01:13<01:53, 2.68it/s]
Power Factorization: 39%	197/500 [01:13<01:48, 2.78it/s]
Power Factorization: 40%	198/500 [01:13<01:50, 2.74it/s]
Power Factorization: 40%	199/500 [01:14<01:49, 2.74it/s]
Power Factorization: 40%	200/500 [01:14<01:54, 2.61it/s]
Power Factorization: 40%	201/500 [01:15<01:55, 2.58it/s]
Power Factorization: 40%	202/500 [01:15<01:58, 2.53it/s]
Power Factorization: 41%	203/500 [01:15<01:50, 2.68it/s]
Power Factorization: 41%	204/500 [01:16<01:49, 2.70it/s]

Power Factorization: 41%	205/500 [01:16<01:46, 2.77it/s]
Power Factorization: 41%	206/500 [01:16<01:44, 2.81it/s]
Power Factorization: 41%	207/500 [01:17<01:45, 2.79it/s]
Power Factorization: 42%	208/500 [01:17<01:47, 2.71it/s]
Power Factorization: 42%	209/500 [01:17<01:46, 2.72it/s]
Power Factorization: 42%	210/500 [01:18<01:46, 2.71it/s]
Power Factorization: 42%	211/500 [01:18<01:48, 2.66it/s]
Power Factorization: 42%	212/500 [01:19<01:47, 2.69it/s]
Power Factorization: 43%	213/500 [01:19<01:49, 2.62it/s]
Power Factorization: 43%	214/500 [01:19<01:49, 2.62it/s]
Power Factorization: 43%	215/500 [01:20<01:52, 2.53it/s]
Power Factorization: 43%	216/500 [01:20<01:53, 2.51it/s]
Power Factorization: 43%	217/500 [01:21<01:50, 2.56it/s]
Power Factorization: 44%	218/500 [01:21<01:46, 2.66it/s]
Power Factorization: 44%	219/500 [01:21<01:46, 2.63it/s]
Power Factorization: 44%	220/500 [01:22<01:49, 2.55it/s]
Power Factorization: 44%	221/500 [01:22<01:51, 2.51it/s]
Power Factorization: 44%	222/500 [01:22<01:46, 2.62it/s]
Power Factorization: 45%	223/500 [01:23<01:41, 2.72it/s]
Power Factorization: 45%	224/500 [01:23<01:39, 2.77it/s]
Power Factorization: 45%	225/500 [01:24<01:40, 2.75it/s]
Power Factorization: 45%	226/500 [01:24<01:42, 2.66it/s]
Power Factorization: 45%	227/500 [01:24<01:40, 2.71it/s]
Power Factorization: 46%	228/500 [01:25<01:40, 2.71it/s]

Power Factorization: 46%	229/500 [01:25<01:44, 2.60it/s]
Power Factorization: 46%	230/500 [01:25<01:36, 2.79it/s]
Power Factorization: 46%	231/500 [01:26<01:38, 2.74it/s]
Power Factorization: 46%	232/500 [01:26<01:40, 2.67it/s]
Power Factorization: 47%	233/500 [01:27<01:39, 2.68it/s]
Power Factorization: 47%	234/500 [01:27<01:39, 2.66it/s]
Power Factorization: 47%	235/500 [01:27<01:37, 2.71it/s]
Power Factorization: 47%	236/500 [01:28<01:38, 2.67it/s]
Power Factorization: 47%	237/500 [01:28<01:38, 2.67it/s]
Power Factorization: 48%	238/500 [01:28<01:36, 2.71it/s]
Power Factorization: 48%	239/500 [01:29<01:34, 2.77it/s]
Power Factorization: 48%	240/500 [01:29<01:35, 2.73it/s]
Power Factorization: 48%	241/500 [01:29<01:35, 2.70it/s]
Power Factorization: 48%	242/500 [01:30<01:32, 2.80it/s]
Power Factorization: 49%	243/500 [01:30<01:32, 2.76it/s]
Power Factorization: 49%	244/500 [01:31<01:31, 2.80it/s]
Power Factorization: 49%	245/500 [01:31<01:32, 2.75it/s]
Power Factorization: 49%	246/500 [01:31<01:31, 2.76it/s]
Power Factorization: 49%	247/500 [01:32<01:33, 2.71it/s]
Power Factorization: 50%	248/500 [01:32<01:31, 2.75it/s]
Power Factorization: 50%	249/500 [01:32<01:28, 2.84it/s]
Power Factorization: 50%	250/500 [01:33<01:30, 2.75it/s]
Power Factorization: 50%	251/500 [01:33<01:29, 2.77it/s]
Power Factorization: 50%	252/500 [01:33<01:31, 2.72it/s]

Power Factorization: 51%	253/500 [01:34<01:31, 2.70it/s]
Power Factorization: 51%	254/500 [01:34<01:31, 2.69it/s]
Power Factorization: 51%	255/500 [01:35<01:32, 2.64it/s]
Power Factorization: 51%	256/500 [01:35<01:31, 2.66it/s]
Power Factorization: 51%	257/500 [01:35<01:32, 2.63it/s]
Power Factorization: 52%	258/500 [01:36<01:31, 2.65it/s]
Power Factorization: 52%	259/500 [01:36<01:32, 2.60it/s]
Power Factorization: 52%	260/500 [01:36<01:27, 2.74it/s]
Power Factorization: 52%	261/500 [01:37<01:27, 2.75it/s]
Power Factorization: 52%	262/500 [01:37<01:26, 2.75it/s]
Power Factorization: 53%	263/500 [01:38<01:28, 2.68it/s]
Power Factorization: 53%	264/500 [01:38<01:26, 2.73it/s]
Power Factorization: 53%	265/500 [01:38<01:24, 2.80it/s]
Power Factorization: 53%	266/500 [01:39<01:26, 2.71it/s]
Power Factorization: 53%	267/500 [01:39<01:26, 2.71it/s]
Power Factorization: 54%	268/500 [01:39<01:27, 2.66it/s]
Power Factorization: 54%	269/500 [01:40<01:31, 2.53it/s]
Power Factorization: 54%	270/500 [01:40<01:30, 2.55it/s]
Power Factorization: 54%	271/500 [01:41<01:31, 2.49it/s]
Power Factorization: 54%	272/500 [01:41<01:26, 2.63it/s]
Power Factorization: 55%	273/500 [01:41<01:24, 2.68it/s]
Power Factorization: 55%	274/500 [01:42<01:26, 2.62it/s]
Power Factorization: 55%	275/500 [01:42<01:23, 2.70it/s]
Power Factorization: 55%	276/500 [01:42<01:20, 2.78it/s]

Power Factorization: 55%	277/500 [01:43<01:17, 2.86it/s]
Power Factorization: 56%	278/500 [01:43<01:17, 2.85it/s]
Power Factorization: 56%	279/500 [01:44<01:21, 2.70it/s]
Power Factorization: 56%	280/500 [01:44<01:20, 2.74it/s]
Power Factorization: 56%	281/500 [01:44<01:19, 2.77it/s]
Power Factorization: 56%	282/500 [01:45<01:20, 2.70it/s]
Power Factorization: 57%	283/500 [01:45<01:17, 2.81it/s]
Power Factorization: 57%	284/500 [01:45<01:19, 2.72it/s]
Power Factorization: 57%	285/500 [01:46<01:19, 2.70it/s]
Power Factorization: 57%	286/500 [01:46<01:19, 2.71it/s]
Power Factorization: 57%	287/500 [01:46<01:19, 2.67it/s]
Power Factorization: 58%	288/500 [01:47<01:21, 2.61it/s]
Power Factorization: 58%	289/500 [01:47<01:23, 2.53it/s]
Power Factorization: 58%	290/500 [01:48<01:28, 2.37it/s]
Power Factorization: 58%	291/500 [01:48<01:23, 2.50it/s]
Power Factorization: 58%	292/500 [01:48<01:18, 2.66it/s]
Power Factorization: 59%	293/500 [01:49<01:16, 2.72it/s]
Power Factorization: 59%	294/500 [01:49<01:16, 2.69it/s]
Power Factorization: 59%	295/500 [01:50<01:15, 2.73it/s]
Power Factorization: 59%	296/500 [01:50<01:15, 2.71it/s]
Power Factorization: 59%	297/500 [01:50<01:11, 2.82it/s]
Power Factorization: 60%	298/500 [01:51<01:14, 2.72it/s]
Power Factorization: 60%	299/500 [01:51<01:14, 2.71it/s]
Power Factorization: 60%	300/500 [01:51<01:13, 2.74it/s]

Power Factorization: 60%	301/500 [01:52<01:12, 2.73it/s]
Power Factorization: 60%	302/500 [01:52<01:13, 2.70it/s]
Power Factorization: 61%	303/500 [01:52<01:13, 2.68it/s]
Power Factorization: 61%	304/500 [01:53<01:11, 2.75it/s]
Power Factorization: 61%	305/500 [01:53<01:16, 2.53it/s]
Power Factorization: 61%	306/500 [01:54<01:16, 2.55it/s]
Power Factorization: 61%	307/500 [01:54<01:13, 2.63it/s]
Power Factorization: 62%	308/500 [01:54<01:12, 2.64it/s]
Power Factorization: 62%	309/500 [01:55<01:13, 2.59it/s]
Power Factorization: 62%	310/500 [01:55<01:11, 2.66it/s]
Power Factorization: 62%	311/500 [01:56<01:12, 2.62it/s]
Power Factorization: 62%	312/500 [01:56<01:09, 2.70it/s]
Power Factorization: 63%	313/500 [01:56<01:12, 2.56it/s]
Power Factorization: 63%	314/500 [01:57<01:10, 2.63it/s]
Power Factorization: 63%	315/500 [01:57<01:09, 2.67it/s]
Power Factorization: 63%	316/500 [01:57<01:06, 2.75it/s]
Power Factorization: 63%	317/500 [01:58<01:06, 2.75it/s]
Power Factorization: 64%	318/500 [01:58<01:06, 2.73it/s]
Power Factorization: 64%	319/500 [01:58<01:03, 2.84it/s]
Power Factorization: 64%	320/500 [01:59<01:03, 2.85it/s]
Power Factorization: 64%	321/500 [01:59<01:03, 2.84it/s]
Power Factorization: 64%	322/500 [02:00<01:04, 2.75it/s]
Power Factorization: 65%	323/500 [02:00<01:04, 2.74it/s]
Power Factorization: 65%	324/500 [02:00<01:03, 2.78it/s]

Power Factorization: 65%	325/500 [02:01<01:05, 2.67it/s]
Power Factorization: 65%	326/500 [02:01<01:04, 2.70it/s]
Power Factorization: 65%	327/500 [02:01<01:06, 2.61it/s]
Power Factorization: 66%	328/500 [02:02<01:05, 2.63it/s]
Power Factorization: 66%	329/500 [02:02<01:02, 2.72it/s]
Power Factorization: 66%	330/500 [02:03<01:06, 2.57it/s]
Power Factorization: 66%	331/500 [02:03<01:05, 2.58it/s]
Power Factorization: 66%	332/500 [02:03<01:04, 2.60it/s]
Power Factorization: 67%	333/500 [02:04<01:03, 2.64it/s]
Power Factorization: 67%	334/500 [02:04<01:01, 2.70it/s]
Power Factorization: 67%	335/500 [02:04<00:59, 2.78it/s]
Power Factorization: 67%	336/500 [02:05<00:57, 2.84it/s]
Power Factorization: 67%	337/500 [02:05<00:56, 2.87it/s]
Power Factorization: 68%	338/500 [02:05<00:54, 2.99it/s]
Power Factorization: 68%	339/500 [02:06<00:56, 2.85it/s]
Power Factorization: 68%	340/500 [02:06<00:55, 2.88it/s]
Power Factorization: 68%	341/500 [02:06<00:56, 2.80it/s]
Power Factorization: 68%	342/500 [02:07<00:55, 2.86it/s]
Power Factorization: 69%	343/500 [02:07<00:56, 2.79it/s]
Power Factorization: 69%	344/500 [02:08<01:09, 2.25it/s]
Power Factorization: 69%	345/500 [02:08<01:05, 2.36it/s]
Power Factorization: 69%	346/500 [02:09<01:01, 2.50it/s]
Power Factorization: 69%	347/500 [02:09<01:00, 2.55it/s]
Power Factorization: 70%	348/500 [02:09<00:59, 2.54it/s]

Power Factorization: 70%	349/500 [02:10<00:57, 2.61it/s]
Power Factorization: 70%	350/500 [02:10<00:55, 2.72it/s]
Power Factorization: 70%	351/500 [02:10<00:54, 2.73it/s]
Power Factorization: 70%	352/500 [02:11<00:55, 2.65it/s]
Power Factorization: 71%	353/500 [02:11<00:54, 2.70it/s]
Power Factorization: 71%	354/500 [02:12<00:56, 2.57it/s]
Power Factorization: 71%	355/500 [02:12<00:56, 2.57it/s]
Power Factorization: 71%	356/500 [02:12<00:55, 2.60it/s]
Power Factorization: 71%	357/500 [02:13<00:51, 2.80it/s]
Power Factorization: 72%	358/500 [02:13<00:49, 2.85it/s]
Power Factorization: 72%	359/500 [02:13<00:50, 2.81it/s]
Power Factorization: 72%	360/500 [02:14<00:53, 2.63it/s]
Power Factorization: 72%	361/500 [02:14<00:51, 2.68it/s]
Power Factorization: 72%	362/500 [02:14<00:48, 2.82it/s]
Power Factorization: 73%	363/500 [02:15<00:48, 2.83it/s]
Power Factorization: 73%	364/500 [02:15<00:49, 2.77it/s]
Power Factorization: 73%	365/500 [02:16<00:50, 2.70it/s]
Power Factorization: 73%	366/500 [02:16<00:50, 2.65it/s]
Power Factorization: 73%	367/500 [02:16<00:48, 2.74it/s]
Power Factorization: 74%	368/500 [02:17<00:48, 2.71it/s]
Power Factorization: 74%	369/500 [02:17<00:50, 2.61it/s]
Power Factorization: 74%	370/500 [02:17<00:49, 2.61it/s]
Power Factorization: 74%	371/500 [02:18<00:48, 2.68it/s]
Power Factorization: 74%	372/500 [02:18<00:49, 2.58it/s]

Power Factorization: 75%	373/500 [02:19<00:49, 2.57it/s]
Power Factorization: 75%	374/500 [02:19<00:49, 2.57it/s]
Power Factorization: 75%	375/500 [02:19<00:46, 2.66it/s]
Power Factorization: 75%	376/500 [02:20<00:46, 2.70it/s]
Power Factorization: 75%	377/500 [02:20<00:45, 2.71it/s]
Power Factorization: 76%	378/500 [02:20<00:45, 2.67it/s]
Power Factorization: 76%	379/500 [02:21<00:43, 2.78it/s]
Power Factorization: 76%	380/500 [02:21<00:43, 2.77it/s]
Power Factorization: 76%	381/500 [02:22<00:42, 2.80it/s]
Power Factorization: 76%	382/500 [02:22<00:41, 2.86it/s]
Power Factorization: 77%	383/500 [02:22<00:42, 2.76it/s]
Power Factorization: 77%	384/500 [02:23<00:41, 2.82it/s]
Power Factorization: 77%	385/500 [02:23<00:40, 2.84it/s]
Power Factorization: 77%	386/500 [02:23<00:39, 2.88it/s]
Power Factorization: 77%	387/500 [02:24<00:39, 2.84it/s]
Power Factorization: 78%	388/500 [02:24<00:39, 2.85it/s]
Power Factorization: 78%	389/500 [02:24<00:39, 2.79it/s]
Power Factorization: 78%	390/500 [02:25<00:39, 2.77it/s]
Power Factorization: 78%	391/500 [02:25<00:39, 2.74it/s]
Power Factorization: 78%	392/500 [02:25<00:39, 2.74it/s]
Power Factorization: 79%	393/500 [02:26<00:37, 2.84it/s]
Power Factorization: 79%	394/500 [02:26<00:40, 2.62it/s]
Power Factorization: 79%	395/500 [02:27<00:39, 2.65it/s]
Power Factorization: 79%	396/500 [02:27<00:38, 2.69it/s]

Power Factorization: 79%	397/500 [02:27<00:37, 2.74it/s]
Power Factorization: 80%	398/500 [02:28<00:37, 2.72it/s]
Power Factorization: 80%	399/500 [02:28<00:36, 2.78it/s]
Power Factorization: 80%	400/500 [02:28<00:36, 2.77it/s]
Power Factorization: 80%	401/500 [02:29<00:35, 2.78it/s]
Power Factorization: 80%	402/500 [02:29<00:35, 2.78it/s]
Power Factorization: 81%	403/500 [02:29<00:35, 2.75it/s]
Power Factorization: 81%	404/500 [02:30<00:34, 2.81it/s]
Power Factorization: 81%	405/500 [02:30<00:33, 2.83it/s]
Power Factorization: 81%	406/500 [02:31<00:33, 2.80it/s]
Power Factorization: 81%	407/500 [02:31<00:33, 2.78it/s]
Power Factorization: 82%	408/500 [02:31<00:34, 2.64it/s]
Power Factorization: 82%	409/500 [02:32<00:33, 2.74it/s]
Power Factorization: 82%	410/500 [02:32<00:32, 2.78it/s]
Power Factorization: 82%	411/500 [02:33<00:36, 2.47it/s]
Power Factorization: 82%	412/500 [02:33<00:34, 2.55it/s]
Power Factorization: 83%	413/500 [02:33<00:33, 2.56it/s]
Power Factorization: 83%	414/500 [02:34<00:33, 2.59it/s]
Power Factorization: 83%	415/500 [02:34<00:32, 2.61it/s]
Power Factorization: 83%	416/500 [02:34<00:32, 2.55it/s]
Power Factorization: 83%	417/500 [02:35<00:31, 2.63it/s]
Power Factorization: 84%	418/500 [02:35<00:30, 2.69it/s]
Power Factorization: 84%	419/500 [02:35<00:29, 2.76it/s]
Power Factorization: 84%	420/500 [02:36<00:29, 2.74it/s]

Power Factorization: 84%	421/500 [02:36<00:30,	2.62it/s]
Power Factorization: 84%	422/500 [02:37<00:29,	2.64it/s]
Power Factorization: 85%	423/500 [02:37<00:31,	2.46it/s]
Power Factorization: 85%	424/500 [02:37<00:29,	2.55it/s]
Power Factorization: 85%	425/500 [02:38<00:27,	2.71it/s]
Power Factorization: 85%	426/500 [02:38<00:28,	2.56it/s]
Power Factorization: 85%	427/500 [02:39<00:28,	2.59it/s]
Power Factorization: 86%	428/500 [02:39<00:26,	2.76it/s]
Power Factorization: 86%	429/500 [02:39<00:26,	2.70it/s]
Power Factorization: 86%	430/500 [02:40<00:24,	2.80it/s]
Power Factorization: 86%	431/500 [02:40<00:24,	2.87it/s]
Power Factorization: 86%	432/500 [02:40<00:23,	2.90it/s]
Power Factorization: 87%	433/500 [02:41<00:23,	2.80it/s]
Power Factorization: 87%	434/500 [02:41<00:24,	2.74it/s]
Power Factorization: 87%	435/500 [02:41<00:23,	2.75it/s]
Power Factorization: 87%	436/500 [02:42<00:23,	2.74it/s]
Power Factorization: 87%	437/500 [02:42<00:21,	2.89it/s]
Power Factorization: 88%	438/500 [02:42<00:22,	2.81it/s]
Power Factorization: 88%	439/500 [02:43<00:21,	2.90it/s]
Power Factorization: 88%	440/500 [02:43<00:21,	2.81it/s]
Power Factorization: 88%	441/500 [02:44<00:21,	2.77it/s]
Power Factorization: 88%	442/500 [02:44<00:21,	2.66it/s]
Power Factorization: 89%	443/500 [02:44<00:21,	2.67it/s]
Power Factorization: 89%	444/500 [02:45<00:21,	2.65it/s]

Power Factorization: 89%	445/500 [02:45<00:19, 2.76it/s]
Power Factorization: 89%	446/500 [02:45<00:19, 2.81it/s]
Power Factorization: 89%	447/500 [02:46<00:18, 2.92it/s]
Power Factorization: 90%	448/500 [02:46<00:17, 2.96it/s]
Power Factorization: 90%	449/500 [02:46<00:17, 2.94it/s]
Power Factorization: 90%	450/500 [02:47<00:17, 2.88it/s]
Power Factorization: 90%	451/500 [02:47<00:18, 2.58it/s]
Power Factorization: 90%	452/500 [02:48<00:17, 2.67it/s]
Power Factorization: 91%	453/500 [02:48<00:16, 2.77it/s]
Power Factorization: 91%	454/500 [02:48<00:16, 2.76it/s]
Power Factorization: 91%	455/500 [02:49<00:16, 2.74it/s]
Power Factorization: 91%	456/500 [02:49<00:16, 2.73it/s]
Power Factorization: 91%	457/500 [02:49<00:15, 2.71it/s]
Power Factorization: 92%	458/500 [02:50<00:15, 2.69it/s]
Power Factorization: 92%	459/500 [02:50<00:15, 2.70it/s]
Power Factorization: 92%	460/500 [02:50<00:14, 2.70it/s]
Power Factorization: 92%	461/500 [02:51<00:14, 2.74it/s]
Power Factorization: 92%	462/500 [02:51<00:13, 2.72it/s]
Power Factorization: 93%	463/500 [02:52<00:13, 2.77it/s]
Power Factorization: 93%	464/500 [02:52<00:13, 2.70it/s]
Power Factorization: 93%	465/500 [02:52<00:12, 2.72it/s]
Power Factorization: 93%	466/500 [02:53<00:12, 2.70it/s]
Power Factorization: 93%	467/500 [02:53<00:12, 2.70it/s]
Power Factorization: 94%	468/500 [02:53<00:11, 2.69it/s]

Power Factorization: 94%	469/500 [02:54<00:11, 2.69it/s]
Power Factorization: 94%	470/500 [02:54<00:10, 2.76it/s]
Power Factorization: 94%	471/500 [02:55<00:10, 2.69it/s]
Power Factorization: 94%	472/500 [02:55<00:10, 2.74it/s]
Power Factorization: 95%	473/500 [02:55<00:09, 2.85it/s]
Power Factorization: 95%	474/500 [02:55<00:08, 2.92it/s]
Power Factorization: 95%	475/500 [02:56<00:08, 3.01it/s]
Power Factorization: 95%	476/500 [02:56<00:08, 2.97it/s]
Power Factorization: 95%	477/500 [02:57<00:08, 2.87it/s]
Power Factorization: 96%	478/500 [02:57<00:07, 2.95it/s]
Power Factorization: 96%	479/500 [02:57<00:07, 2.97it/s]
Power Factorization: 96%	480/500 [02:58<00:06, 2.97it/s]
Power Factorization: 96%	481/500 [02:58<00:06, 2.76it/s]
Power Factorization: 96%	482/500 [02:58<00:06, 2.72it/s]
Power Factorization: 97%	483/500 [02:59<00:06, 2.79it/s]
Power Factorization: 97%	484/500 [02:59<00:05, 2.83it/s]
Power Factorization: 97%	485/500 [02:59<00:05, 2.84it/s]
Power Factorization: 97%	486/500 [03:00<00:05, 2.76it/s]
Power Factorization: 97%	487/500 [03:00<00:04, 2.66it/s]
Power Factorization: 98%	488/500 [03:01<00:04, 2.66it/s]
Power Factorization: 98%	489/500 [03:01<00:04, 2.66it/s]
Power Factorization: 98%	490/500 [03:01<00:03, 2.72it/s]
Power Factorization: 98%	491/500 [03:02<00:03, 2.63it/s]
Power Factorization: 98%	492/500 [03:02<00:02, 2.83it/s]

Power Factorization: 99%	493/500 [03:02<00:02, 2.95it/s]
Power Factorization: 99%	494/500 [03:03<00:02, 2.71it/s]
Power Factorization: 99%	495/500 [03:03<00:01, 2.64it/s]
Power Factorization: 99%	496/500 [03:03<00:01, 2.62it/s]
Power Factorization: 99%	497/500 [03:04<00:01, 2.68it/s]
Power Factorization: 100%	498/500 [03:04<00:00, 2.69it/s]
Power Factorization: 100%	499/500 [03:05<00:00, 2.63it/s]
Power Factorization: 100%	500/500 [03:05<00:00, 2.70it/s]
Cross Validation: 80%	4/5 [11:38<02:57, 177.76s/it]
Power Factorization: 0%	0/500 [00:00<?, ?it/s]
Power Factorization: 0%	1/500 [00:00<02:57, 2.82it/s]
Power Factorization: 0%	2/500 [00:00<03:18, 2.51it/s]
Power Factorization: 1%	3/500 [00:01<03:10, 2.61it/s]
Power Factorization: 1%	4/500 [00:01<03:05, 2.67it/s]
Power Factorization: 1%	5/500 [00:01<03:03, 2.70it/s]
Power Factorization: 1%	6/500 [00:02<02:59, 2.75it/s]
Power Factorization: 1%	7/500 [00:02<03:06, 2.64it/s]
Power Factorization: 2%	8/500 [00:03<03:19, 2.46it/s]
Power Factorization: 2%	9/500 [00:03<03:08, 2.60it/s]
Power Factorization: 2%	10/500 [00:03<03:14, 2.52it/s]
Power Factorization: 2%	11/500 [00:04<03:08, 2.59it/s]
Power Factorization: 2%	12/500 [00:04<03:02, 2.67it/s]
Power Factorization: 3%	13/500 [00:04<03:04, 2.64it/s]
Power Factorization: 3%	14/500 [00:05<03:06, 2.60it/s]

Power Factorization:	3%	15/500	[00:05<03:07, 2.59it/s]
Power Factorization:	3%	16/500	[00:06<03:05, 2.61it/s]
Power Factorization:	3%	17/500	[00:06<03:06, 2.59it/s]
Power Factorization:	4%	18/500	[00:07<03:23, 2.37it/s]
Power Factorization:	4%	19/500	[00:07<03:11, 2.52it/s]
Power Factorization:	4%	20/500	[00:07<03:06, 2.57it/s]
Power Factorization:	4%	21/500	[00:08<03:02, 2.62it/s]
Power Factorization:	4%	22/500	[00:08<03:04, 2.59it/s]
Power Factorization:	5%	23/500	[00:08<03:03, 2.61it/s]
Power Factorization:	5%	24/500	[00:09<02:59, 2.65it/s]
Power Factorization:	5%	25/500	[00:09<02:53, 2.73it/s]
Power Factorization:	5%	26/500	[00:09<02:57, 2.68it/s]
Power Factorization:	5%	27/500	[00:10<02:57, 2.66it/s]
Power Factorization:	6%	28/500	[00:10<03:04, 2.56it/s]
Power Factorization:	6%	29/500	[00:11<03:04, 2.56it/s]
Power Factorization:	6%	30/500	[00:11<03:05, 2.53it/s]
Power Factorization:	6%	31/500	[00:11<03:01, 2.58it/s]
Power Factorization:	6%	32/500	[00:12<02:55, 2.66it/s]
Power Factorization:	7%	33/500	[00:12<02:57, 2.63it/s]
Power Factorization:	7%	34/500	[00:13<03:00, 2.59it/s]
Power Factorization:	7%	35/500	[00:13<03:07, 2.48it/s]
Power Factorization:	7%	36/500	[00:13<03:05, 2.50it/s]
Power Factorization:	7%	37/500	[00:14<03:01, 2.55it/s]
Power Factorization:	8%	38/500	[00:14<02:56, 2.62it/s]

Power Factorization:	8%	39/500	[00:15<02:55,	2.63it/s]
Power Factorization:	8%	40/500	[00:15<02:52,	2.67it/s]
Power Factorization:	8%	41/500	[00:15<02:50,	2.70it/s]
Power Factorization:	8%	42/500	[00:16<02:50,	2.69it/s]
Power Factorization:	9%	43/500	[00:16<03:07,	2.43it/s]
Power Factorization:	9%	44/500	[00:16<02:59,	2.54it/s]
Power Factorization:	9%	45/500	[00:17<03:10,	2.39it/s]
Power Factorization:	9%	46/500	[00:17<03:01,	2.50it/s]
Power Factorization:	9%	47/500	[00:18<02:51,	2.63it/s]
Power Factorization:	10%	48/500	[00:18<02:46,	2.71it/s]
Power Factorization:	10%	49/500	[00:18<02:49,	2.65it/s]
Power Factorization:	10%	50/500	[00:19<03:02,	2.46it/s]
Power Factorization:	10%	51/500	[00:19<03:01,	2.48it/s]
Power Factorization:	10%	52/500	[00:20<02:59,	2.50it/s]
Power Factorization:	11%	53/500	[00:20<02:54,	2.57it/s]
Power Factorization:	11%	54/500	[00:20<02:51,	2.60it/s]
Power Factorization:	11%	55/500	[00:21<02:49,	2.63it/s]
Power Factorization:	11%	56/500	[00:21<02:50,	2.61it/s]
Power Factorization:	11%	57/500	[00:22<02:52,	2.57it/s]
Power Factorization:	12%	58/500	[00:22<02:48,	2.62it/s]
Power Factorization:	12%	59/500	[00:22<02:50,	2.59it/s]
Power Factorization:	12%	60/500	[00:23<02:49,	2.60it/s]
Power Factorization:	12%	61/500	[00:23<02:50,	2.57it/s]
Power Factorization:	12%	62/500	[00:23<02:50,	2.57it/s]

Power Factorization: 13%	63/500 [00:24<02:44,	2.65it/s]
Power Factorization: 13%	64/500 [00:24<02:42,	2.69it/s]
Power Factorization: 13%	65/500 [00:25<02:39,	2.72it/s]
Power Factorization: 13%	66/500 [00:25<02:39,	2.72it/s]
Power Factorization: 13%	67/500 [00:25<02:38,	2.74it/s]
Power Factorization: 14%	68/500 [00:26<02:38,	2.72it/s]
Power Factorization: 14%	69/500 [00:26<02:41,	2.67it/s]
Power Factorization: 14%	70/500 [00:26<02:44,	2.61it/s]
Power Factorization: 14%	71/500 [00:27<02:34,	2.77it/s]
Power Factorization: 14%	72/500 [00:27<02:37,	2.71it/s]
Power Factorization: 15%	73/500 [00:27<02:34,	2.76it/s]
Power Factorization: 15%	74/500 [00:28<02:36,	2.73it/s]
Power Factorization: 15%	75/500 [00:28<02:37,	2.70it/s]
Power Factorization: 15%	76/500 [00:29<02:35,	2.72it/s]
Power Factorization: 15%	77/500 [00:29<02:36,	2.71it/s]
Power Factorization: 16%	78/500 [00:29<02:33,	2.75it/s]
Power Factorization: 16%	79/500 [00:30<02:30,	2.79it/s]
Power Factorization: 16%	80/500 [00:30<02:29,	2.81it/s]
Power Factorization: 16%	81/500 [00:30<02:41,	2.60it/s]
Power Factorization: 16%	82/500 [00:31<02:40,	2.61it/s]
Power Factorization: 17%	83/500 [00:31<02:35,	2.68it/s]
Power Factorization: 17%	84/500 [00:32<02:30,	2.76it/s]
Power Factorization: 17%	85/500 [00:32<02:27,	2.82it/s]
Power Factorization: 17%	86/500 [00:32<02:32,	2.71it/s]

Power Factorization: 17%	87/500 [00:33<02:32,	2.71it/s]
Power Factorization: 18%	88/500 [00:33<02:39,	2.58it/s]
Power Factorization: 18%	89/500 [00:33<02:36,	2.62it/s]
Power Factorization: 18%	90/500 [00:34<02:36,	2.61it/s]
Power Factorization: 18%	91/500 [00:34<02:37,	2.60it/s]
Power Factorization: 18%	92/500 [00:35<02:32,	2.67it/s]
Power Factorization: 19%	93/500 [00:35<02:38,	2.57it/s]
Power Factorization: 19%	94/500 [00:35<02:32,	2.66it/s]
Power Factorization: 19%	95/500 [00:36<02:33,	2.64it/s]
Power Factorization: 19%	96/500 [00:36<02:30,	2.69it/s]
Power Factorization: 19%	97/500 [00:36<02:30,	2.67it/s]
Power Factorization: 20%	98/500 [00:37<02:33,	2.61it/s]
Power Factorization: 20%	99/500 [00:37<02:35,	2.58it/s]
Power Factorization: 20%	100/500 [00:38<02:42,	2.46it/s]
Power Factorization: 20%	101/500 [00:38<02:41,	2.48it/s]
Power Factorization: 20%	102/500 [00:38<02:35,	2.55it/s]
Power Factorization: 21%	103/500 [00:39<02:32,	2.61it/s]
Power Factorization: 21%	104/500 [00:39<02:34,	2.56it/s]
Power Factorization: 21%	105/500 [00:40<02:28,	2.65it/s]
Power Factorization: 21%	106/500 [00:40<02:30,	2.61it/s]
Power Factorization: 21%	107/500 [00:40<02:27,	2.67it/s]
Power Factorization: 22%	108/500 [00:41<02:24,	2.72it/s]
Power Factorization: 22%	109/500 [00:41<02:22,	2.75it/s]
Power Factorization: 22%	110/500 [00:41<02:22,	2.75it/s]

Power Factorization: 22%	111/500 [00:42<02:24, 2.69it/s]
Power Factorization: 22%	112/500 [00:42<02:23, 2.70it/s]
Power Factorization: 23%	113/500 [00:43<02:19, 2.77it/s]
Power Factorization: 23%	114/500 [00:43<02:13, 2.88it/s]
Power Factorization: 23%	115/500 [00:43<02:16, 2.81it/s]
Power Factorization: 23%	116/500 [00:44<02:18, 2.76it/s]
Power Factorization: 23%	117/500 [00:44<02:19, 2.75it/s]
Power Factorization: 24%	118/500 [00:44<02:10, 2.93it/s]
Power Factorization: 24%	119/500 [00:45<02:07, 2.98it/s]
Power Factorization: 24%	120/500 [00:45<02:02, 3.11it/s]
Power Factorization: 24%	121/500 [00:45<02:06, 3.01it/s]
Power Factorization: 24%	122/500 [00:46<02:08, 2.95it/s]
Power Factorization: 25%	123/500 [00:46<02:02, 3.09it/s]
Power Factorization: 25%	124/500 [00:46<01:56, 3.24it/s]
Power Factorization: 25%	125/500 [00:46<01:59, 3.13it/s]
Power Factorization: 25%	126/500 [00:47<01:59, 3.12it/s]
Power Factorization: 25%	127/500 [00:47<02:03, 3.01it/s]
Power Factorization: 26%	128/500 [00:47<02:06, 2.94it/s]
Power Factorization: 26%	129/500 [00:48<02:01, 3.06it/s]
Power Factorization: 26%	130/500 [00:48<02:02, 3.01it/s]
Power Factorization: 26%	131/500 [00:49<02:12, 2.78it/s]
Power Factorization: 26%	132/500 [00:49<02:12, 2.78it/s]
Power Factorization: 27%	133/500 [00:49<02:09, 2.83it/s]
Power Factorization: 27%	134/500 [00:50<02:07, 2.87it/s]

Power Factorization: 27%	135/500 [00:50<02:08, 2.84it/s]
Power Factorization: 27%	136/500 [00:50<02:12, 2.75it/s]
Power Factorization: 27%	137/500 [00:51<02:08, 2.82it/s]
Power Factorization: 28%	138/500 [00:51<02:09, 2.80it/s]
Power Factorization: 28%	139/500 [00:51<02:06, 2.86it/s]
Power Factorization: 28%	140/500 [00:52<02:03, 2.91it/s]
Power Factorization: 28%	141/500 [00:52<01:57, 3.07it/s]
Power Factorization: 28%	142/500 [00:52<01:56, 3.06it/s]
Power Factorization: 29%	143/500 [00:53<02:02, 2.91it/s]
Power Factorization: 29%	144/500 [00:53<02:05, 2.84it/s]
Power Factorization: 29%	145/500 [00:53<02:11, 2.70it/s]
Power Factorization: 29%	146/500 [00:54<02:16, 2.59it/s]
Power Factorization: 29%	147/500 [00:54<02:24, 2.45it/s]
Power Factorization: 30%	148/500 [00:55<02:20, 2.51it/s]
Power Factorization: 30%	149/500 [00:55<02:16, 2.58it/s]
Power Factorization: 30%	150/500 [00:55<02:12, 2.63it/s]
Power Factorization: 30%	151/500 [00:56<02:09, 2.70it/s]
Power Factorization: 30%	152/500 [00:56<02:07, 2.72it/s]
Power Factorization: 31%	153/500 [00:57<02:05, 2.77it/s]
Power Factorization: 31%	154/500 [00:57<02:02, 2.82it/s]
Power Factorization: 31%	155/500 [00:57<01:58, 2.91it/s]
Power Factorization: 31%	156/500 [00:58<01:57, 2.92it/s]
Power Factorization: 31%	157/500 [00:58<01:58, 2.90it/s]
Power Factorization: 32%	158/500 [00:58<01:51, 3.05it/s]

Power Factorization: 32%	159/500 [00:59<01:53, 3.01it/s]
Power Factorization: 32%	160/500 [00:59<01:54, 2.98it/s]
Power Factorization: 32%	161/500 [00:59<02:11, 2.58it/s]
Power Factorization: 32%	162/500 [01:00<02:10, 2.58it/s]
Power Factorization: 33%	163/500 [01:00<02:03, 2.72it/s]
Power Factorization: 33%	164/500 [01:00<01:59, 2.81it/s]
Power Factorization: 33%	165/500 [01:01<01:54, 2.93it/s]
Power Factorization: 33%	166/500 [01:01<01:53, 2.95it/s]
Power Factorization: 33%	167/500 [01:01<01:50, 3.01it/s]
Power Factorization: 34%	168/500 [01:02<01:56, 2.85it/s]
Power Factorization: 34%	169/500 [01:02<01:56, 2.85it/s]
Power Factorization: 34%	170/500 [01:02<01:57, 2.81it/s]
Power Factorization: 34%	171/500 [01:03<01:53, 2.89it/s]
Power Factorization: 34%	172/500 [01:03<01:52, 2.91it/s]
Power Factorization: 35%	173/500 [01:04<01:56, 2.81it/s]
Power Factorization: 35%	174/500 [01:04<01:57, 2.78it/s]
Power Factorization: 35%	175/500 [01:04<01:54, 2.84it/s]
Power Factorization: 35%	176/500 [01:05<01:50, 2.94it/s]
Power Factorization: 35%	177/500 [01:05<01:50, 2.94it/s]
Power Factorization: 36%	178/500 [01:05<01:50, 2.90it/s]
Power Factorization: 36%	179/500 [01:06<01:49, 2.92it/s]
Power Factorization: 36%	180/500 [01:06<01:50, 2.89it/s]
Power Factorization: 36%	181/500 [01:06<01:52, 2.83it/s]
Power Factorization: 36%	182/500 [01:07<01:53, 2.80it/s]

Power Factorization: 37%	183/500 [01:07<01:54, 2.76it/s]
Power Factorization: 37%	184/500 [01:07<01:54, 2.76it/s]
Power Factorization: 37%	185/500 [01:08<01:54, 2.76it/s]
Power Factorization: 37%	186/500 [01:08<01:51, 2.82it/s]
Power Factorization: 37%	187/500 [01:08<01:51, 2.81it/s]
Power Factorization: 38%	188/500 [01:09<01:49, 2.86it/s]
Power Factorization: 38%	189/500 [01:09<01:47, 2.89it/s]
Power Factorization: 38%	190/500 [01:09<01:45, 2.93it/s]
Power Factorization: 38%	191/500 [01:10<01:41, 3.04it/s]
Power Factorization: 38%	192/500 [01:10<01:42, 3.00it/s]
Power Factorization: 39%	193/500 [01:11<01:54, 2.68it/s]
Power Factorization: 39%	194/500 [01:11<01:51, 2.75it/s]
Power Factorization: 39%	195/500 [01:11<01:49, 2.80it/s]
Power Factorization: 39%	196/500 [01:12<01:45, 2.89it/s]
Power Factorization: 39%	197/500 [01:12<01:42, 2.96it/s]
Power Factorization: 40%	198/500 [01:12<01:49, 2.77it/s]
Power Factorization: 40%	199/500 [01:13<01:45, 2.86it/s]
Power Factorization: 40%	200/500 [01:13<01:44, 2.88it/s]
Power Factorization: 40%	201/500 [01:13<01:42, 2.91it/s]
Power Factorization: 40%	202/500 [01:14<01:41, 2.93it/s]
Power Factorization: 41%	203/500 [01:14<01:39, 2.98it/s]
Power Factorization: 41%	204/500 [01:14<01:38, 3.00it/s]
Power Factorization: 41%	205/500 [01:15<01:35, 3.10it/s]
Power Factorization: 41%	206/500 [01:15<01:29, 3.28it/s]

Power Factorization: 41%	207/500 [01:15<01:31, 3.20it/s]
Power Factorization: 42%	208/500 [01:16<01:34, 3.07it/s]
Power Factorization: 42%	209/500 [01:16<01:36, 3.02it/s]
Power Factorization: 42%	210/500 [01:16<01:34, 3.07it/s]
Power Factorization: 42%	211/500 [01:17<01:38, 2.92it/s]
Power Factorization: 42%	212/500 [01:17<01:43, 2.77it/s]
Power Factorization: 43%	213/500 [01:17<01:48, 2.63it/s]
Power Factorization: 43%	214/500 [01:18<01:45, 2.71it/s]
Power Factorization: 43%	215/500 [01:18<01:42, 2.79it/s]
Power Factorization: 43%	216/500 [01:18<01:42, 2.76it/s]
Power Factorization: 43%	217/500 [01:19<01:39, 2.85it/s]
Power Factorization: 44%	218/500 [01:19<01:36, 2.91it/s]
Power Factorization: 44%	219/500 [01:19<01:33, 3.01it/s]
Power Factorization: 44%	220/500 [01:20<01:34, 2.97it/s]
Power Factorization: 44%	221/500 [01:20<01:33, 2.98it/s]
Power Factorization: 44%	222/500 [01:20<01:30, 3.06it/s]
Power Factorization: 45%	223/500 [01:21<01:32, 3.00it/s]
Power Factorization: 45%	224/500 [01:21<01:31, 3.03it/s]
Power Factorization: 45%	225/500 [01:21<01:34, 2.91it/s]
Power Factorization: 45%	226/500 [01:22<01:34, 2.89it/s]
Power Factorization: 45%	227/500 [01:22<01:37, 2.80it/s]
Power Factorization: 46%	228/500 [01:23<01:38, 2.77it/s]
Power Factorization: 46%	229/500 [01:23<01:35, 2.83it/s]
Power Factorization: 46%	230/500 [01:23<01:32, 2.91it/s]

Power Factorization: 46%	231/500 [01:24<01:34, 2.86it/s]
Power Factorization: 46%	232/500 [01:24<01:33, 2.85it/s]
Power Factorization: 47%	233/500 [01:24<01:34, 2.83it/s]
Power Factorization: 47%	234/500 [01:25<01:32, 2.88it/s]
Power Factorization: 47%	235/500 [01:25<01:32, 2.87it/s]
Power Factorization: 47%	236/500 [01:25<01:38, 2.67it/s]
Power Factorization: 47%	237/500 [01:26<01:36, 2.71it/s]
Power Factorization: 48%	238/500 [01:26<01:32, 2.82it/s]
Power Factorization: 48%	239/500 [01:26<01:31, 2.85it/s]
Power Factorization: 48%	240/500 [01:27<01:30, 2.87it/s]
Power Factorization: 48%	241/500 [01:27<01:32, 2.81it/s]
Power Factorization: 48%	242/500 [01:27<01:30, 2.86it/s]
Power Factorization: 49%	243/500 [01:28<01:27, 2.94it/s]
Power Factorization: 49%	244/500 [01:28<01:26, 2.95it/s]
Power Factorization: 49%	245/500 [01:28<01:26, 2.94it/s]
Power Factorization: 49%	246/500 [01:29<01:29, 2.85it/s]
Power Factorization: 49%	247/500 [01:29<01:26, 2.92it/s]
Power Factorization: 50%	248/500 [01:29<01:25, 2.93it/s]
Power Factorization: 50%	249/500 [01:30<01:25, 2.94it/s]
Power Factorization: 50%	250/500 [01:30<01:24, 2.97it/s]
Power Factorization: 50%	251/500 [01:30<01:24, 2.95it/s]
Power Factorization: 50%	252/500 [01:31<01:27, 2.85it/s]
Power Factorization: 51%	253/500 [01:31<01:25, 2.90it/s]
Power Factorization: 51%	254/500 [01:32<01:24, 2.91it/s]

Power Factorization: 51%	255/500 [01:32<01:19, 3.08it/s]
Power Factorization: 51%	256/500 [01:32<01:25, 2.85it/s]
Power Factorization: 51%	257/500 [01:33<01:24, 2.89it/s]
Power Factorization: 52%	258/500 [01:33<01:26, 2.81it/s]
Power Factorization: 52%	259/500 [01:33<01:25, 2.82it/s]
Power Factorization: 52%	260/500 [01:34<01:24, 2.84it/s]
Power Factorization: 52%	261/500 [01:34<01:21, 2.93it/s]
Power Factorization: 52%	262/500 [01:34<01:22, 2.88it/s]
Power Factorization: 53%	263/500 [01:35<01:22, 2.86it/s]
Power Factorization: 53%	264/500 [01:35<01:22, 2.88it/s]
Power Factorization: 53%	265/500 [01:35<01:21, 2.88it/s]
Power Factorization: 53%	266/500 [01:36<01:19, 2.96it/s]
Power Factorization: 53%	267/500 [01:36<01:19, 2.92it/s]
Power Factorization: 54%	268/500 [01:36<01:16, 3.03it/s]
Power Factorization: 54%	269/500 [01:37<01:18, 2.95it/s]
Power Factorization: 54%	270/500 [01:37<01:19, 2.91it/s]
Power Factorization: 54%	271/500 [01:37<01:23, 2.73it/s]
Power Factorization: 54%	272/500 [01:38<01:22, 2.75it/s]
Power Factorization: 55%	273/500 [01:38<01:22, 2.74it/s]
Power Factorization: 55%	274/500 [01:39<01:18, 2.89it/s]
Power Factorization: 55%	275/500 [01:39<01:16, 2.94it/s]
Power Factorization: 55%	276/500 [01:39<01:15, 2.97it/s]
Power Factorization: 55%	277/500 [01:39<01:13, 3.05it/s]
Power Factorization: 56%	278/500 [01:40<01:12, 3.06it/s]

Power Factorization: 56%	279/500 [01:40<01:13, 3.01it/s]
Power Factorization: 56%	280/500 [01:40<01:14, 2.97it/s]
Power Factorization: 56%	281/500 [01:41<01:16, 2.88it/s]
Power Factorization: 56%	282/500 [01:41<01:17, 2.83it/s]
Power Factorization: 57%	283/500 [01:42<01:15, 2.86it/s]
Power Factorization: 57%	284/500 [01:42<01:11, 3.03it/s]
Power Factorization: 57%	285/500 [01:42<01:12, 2.95it/s]
Power Factorization: 57%	286/500 [01:43<01:11, 3.00it/s]
Power Factorization: 57%	287/500 [01:43<01:08, 3.11it/s]
Power Factorization: 58%	288/500 [01:43<01:09, 3.06it/s]
Power Factorization: 58%	289/500 [01:44<01:10, 3.00it/s]
Power Factorization: 58%	290/500 [01:44<01:09, 3.02it/s]
Power Factorization: 58%	291/500 [01:44<01:11, 2.91it/s]
Power Factorization: 58%	292/500 [01:45<01:13, 2.83it/s]
Power Factorization: 59%	293/500 [01:45<01:11, 2.91it/s]
Power Factorization: 59%	294/500 [01:45<01:10, 2.91it/s]
Power Factorization: 59%	295/500 [01:46<01:10, 2.90it/s]
Power Factorization: 59%	296/500 [01:46<01:10, 2.91it/s]
Power Factorization: 59%	297/500 [01:46<01:08, 2.97it/s]
Power Factorization: 60%	298/500 [01:47<01:08, 2.94it/s]
Power Factorization: 60%	299/500 [01:47<01:08, 2.94it/s]
Power Factorization: 60%	300/500 [01:47<01:05, 3.04it/s]
Power Factorization: 60%	301/500 [01:48<01:06, 2.99it/s]
Power Factorization: 60%	302/500 [01:48<01:06, 2.99it/s]

Power Factorization: 61%	303/500 [01:48<01:04, 3.08it/s]
Power Factorization: 61%	304/500 [01:49<01:05, 2.99it/s]
Power Factorization: 61%	305/500 [01:49<01:06, 2.93it/s]
Power Factorization: 61%	306/500 [01:49<01:08, 2.81it/s]
Power Factorization: 61%	307/500 [01:50<01:09, 2.76it/s]
Power Factorization: 62%	308/500 [01:50<01:06, 2.89it/s]
Power Factorization: 62%	309/500 [01:50<01:05, 2.91it/s]
Power Factorization: 62%	310/500 [01:51<01:06, 2.85it/s]
Power Factorization: 62%	311/500 [01:51<01:05, 2.88it/s]
Power Factorization: 62%	312/500 [01:51<01:03, 2.97it/s]
Power Factorization: 63%	313/500 [01:52<01:03, 2.96it/s]
Power Factorization: 63%	314/500 [01:52<01:02, 3.00it/s]
Power Factorization: 63%	315/500 [01:52<00:58, 3.17it/s]
Power Factorization: 63%	316/500 [01:53<00:57, 3.19it/s]
Power Factorization: 63%	317/500 [01:53<00:57, 3.18it/s]
Power Factorization: 64%	318/500 [01:53<00:57, 3.16it/s]
Power Factorization: 64%	319/500 [01:54<00:58, 3.08it/s]
Power Factorization: 64%	320/500 [01:54<00:57, 3.12it/s]
Power Factorization: 64%	321/500 [01:54<00:58, 3.08it/s]
Power Factorization: 64%	322/500 [01:55<00:59, 2.98it/s]
Power Factorization: 65%	323/500 [01:55<01:00, 2.90it/s]
Power Factorization: 65%	324/500 [01:55<01:00, 2.92it/s]
Power Factorization: 65%	325/500 [01:56<00:58, 3.01it/s]
Power Factorization: 65%	326/500 [01:56<00:57, 3.05it/s]

Power Factorization: 65%	327/500 [01:56<01:00, 2.88it/s]
Power Factorization: 66%	328/500 [01:57<01:00, 2.84it/s]
Power Factorization: 66%	329/500 [01:57<00:58, 2.94it/s]
Power Factorization: 66%	330/500 [01:57<00:57, 2.96it/s]
Power Factorization: 66%	331/500 [01:58<00:56, 2.97it/s]
Power Factorization: 66%	332/500 [01:58<00:57, 2.91it/s]
Power Factorization: 67%	333/500 [01:58<00:55, 2.99it/s]
Power Factorization: 67%	334/500 [01:59<00:55, 3.02it/s]
Power Factorization: 67%	335/500 [01:59<00:54, 3.05it/s]
Power Factorization: 67%	336/500 [01:59<00:56, 2.90it/s]
Power Factorization: 67%	337/500 [02:00<00:57, 2.82it/s]
Power Factorization: 68%	338/500 [02:00<01:00, 2.67it/s]
Power Factorization: 68%	339/500 [02:00<00:57, 2.82it/s]
Power Factorization: 68%	340/500 [02:01<00:54, 2.95it/s]
Power Factorization: 68%	341/500 [02:01<00:52, 3.05it/s]
Power Factorization: 68%	342/500 [02:01<00:50, 3.12it/s]
Power Factorization: 69%	343/500 [02:02<00:52, 3.00it/s]
Power Factorization: 69%	344/500 [02:02<00:51, 3.02it/s]
Power Factorization: 69%	345/500 [02:02<00:51, 3.02it/s]
Power Factorization: 69%	346/500 [02:03<00:51, 3.00it/s]
Power Factorization: 69%	347/500 [02:03<00:49, 3.06it/s]
Power Factorization: 70%	348/500 [02:03<00:49, 3.06it/s]
Power Factorization: 70%	349/500 [02:04<00:48, 3.10it/s]
Power Factorization: 70%	350/500 [02:04<00:49, 3.02it/s]

Power Factorization: 70%	351/500 [02:04<00:48, 3.05it/s]
Power Factorization: 70%	352/500 [02:05<00:47, 3.09it/s]
Power Factorization: 71%	353/500 [02:05<00:48, 3.02it/s]
Power Factorization: 71%	354/500 [02:05<00:50, 2.90it/s]
Power Factorization: 71%	355/500 [02:06<00:49, 2.92it/s]
Power Factorization: 71%	356/500 [02:06<00:48, 2.94it/s]
Power Factorization: 71%	357/500 [02:06<00:48, 2.94it/s]
Power Factorization: 72%	358/500 [02:07<00:46, 3.02it/s]
Power Factorization: 72%	359/500 [02:07<00:47, 2.99it/s]
Power Factorization: 72%	360/500 [02:07<00:48, 2.91it/s]
Power Factorization: 72%	361/500 [02:08<00:48, 2.88it/s]
Power Factorization: 72%	362/500 [02:08<00:47, 2.88it/s]
Power Factorization: 73%	363/500 [02:08<00:47, 2.90it/s]
Power Factorization: 73%	364/500 [02:09<00:46, 2.95it/s]
Power Factorization: 73%	365/500 [02:09<00:45, 2.99it/s]
Power Factorization: 73%	366/500 [02:09<00:45, 2.94it/s]
Power Factorization: 73%	367/500 [02:10<00:45, 2.90it/s]
Power Factorization: 74%	368/500 [02:10<00:44, 2.95it/s]
Power Factorization: 74%	369/500 [02:11<00:45, 2.91it/s]
Power Factorization: 74%	370/500 [02:11<00:45, 2.88it/s]
Power Factorization: 74%	371/500 [02:11<00:44, 2.91it/s]
Power Factorization: 74%	372/500 [02:12<00:43, 2.93it/s]
Power Factorization: 75%	373/500 [02:12<00:42, 3.00it/s]
Power Factorization: 75%	374/500 [02:12<00:42, 2.94it/s]

Power Factorization: 75%	375/500 [02:13<00:43,	2.90it/s]
Power Factorization: 75%	376/500 [02:13<00:45,	2.72it/s]
Power Factorization: 75%	377/500 [02:13<00:43,	2.82it/s]
Power Factorization: 76%	378/500 [02:14<00:43,	2.82it/s]
Power Factorization: 76%	379/500 [02:14<00:44,	2.71it/s]
Power Factorization: 76%	380/500 [02:14<00:44,	2.68it/s]
Power Factorization: 76%	381/500 [02:15<00:44,	2.68it/s]
Power Factorization: 76%	382/500 [02:15<00:40,	2.89it/s]
Power Factorization: 77%	383/500 [02:15<00:40,	2.90it/s]
Power Factorization: 77%	384/500 [02:16<00:40,	2.84it/s]
Power Factorization: 77%	385/500 [02:16<00:41,	2.76it/s]
Power Factorization: 77%	386/500 [02:17<00:40,	2.82it/s]
Power Factorization: 77%	387/500 [02:17<00:39,	2.84it/s]
Power Factorization: 78%	388/500 [02:17<00:38,	2.89it/s]
Power Factorization: 78%	389/500 [02:18<00:38,	2.86it/s]
Power Factorization: 78%	390/500 [02:18<00:37,	2.90it/s]
Power Factorization: 78%	391/500 [02:18<00:37,	2.88it/s]
Power Factorization: 78%	392/500 [02:19<00:36,	2.95it/s]
Power Factorization: 79%	393/500 [02:19<00:37,	2.86it/s]
Power Factorization: 79%	394/500 [02:19<00:36,	2.90it/s]
Power Factorization: 79%	395/500 [02:20<00:34,	3.02it/s]
Power Factorization: 79%	396/500 [02:20<00:33,	3.14it/s]
Power Factorization: 79%	397/500 [02:20<00:37,	2.74it/s]
Power Factorization: 80%	398/500 [02:21<00:35,	2.89it/s]

Power Factorization: 80%	399/500 [02:21<00:34,	2.89it/s]
Power Factorization: 80%	400/500 [02:22<00:39,	2.55it/s]
Power Factorization: 80%	401/500 [02:22<00:38,	2.60it/s]
Power Factorization: 80%	402/500 [02:22<00:36,	2.67it/s]
Power Factorization: 81%	403/500 [02:23<00:35,	2.77it/s]
Power Factorization: 81%	404/500 [02:23<00:33,	2.87it/s]
Power Factorization: 81%	405/500 [02:23<00:31,	3.00it/s]
Power Factorization: 81%	406/500 [02:23<00:30,	3.05it/s]
Power Factorization: 81%	407/500 [02:24<00:31,	2.99it/s]
Power Factorization: 82%	408/500 [02:24<00:30,	3.03it/s]
Power Factorization: 82%	409/500 [02:25<00:30,	2.98it/s]
Power Factorization: 82%	410/500 [02:25<00:30,	2.96it/s]
Power Factorization: 82%	411/500 [02:25<00:29,	3.04it/s]
Power Factorization: 82%	412/500 [02:26<00:29,	2.98it/s]
Power Factorization: 83%	413/500 [02:26<00:28,	3.05it/s]
Power Factorization: 83%	414/500 [02:26<00:28,	2.98it/s]
Power Factorization: 83%	415/500 [02:27<00:29,	2.92it/s]
Power Factorization: 83%	416/500 [02:27<00:29,	2.81it/s]
Power Factorization: 83%	417/500 [02:27<00:28,	2.90it/s]
Power Factorization: 84%	418/500 [02:28<00:28,	2.83it/s]
Power Factorization: 84%	419/500 [02:28<00:28,	2.84it/s]
Power Factorization: 84%	420/500 [02:28<00:27,	2.96it/s]
Power Factorization: 84%	421/500 [02:29<00:26,	2.97it/s]
Power Factorization: 84%	422/500 [02:29<00:26,	2.93it/s]

Power Factorization: 85%	423/500 [02:29<00:26,	2.93it/s]
Power Factorization: 85%	424/500 [02:30<00:26,	2.88it/s]
Power Factorization: 85%	425/500 [02:30<00:26,	2.86it/s]
Power Factorization: 85%	426/500 [02:30<00:25,	2.92it/s]
Power Factorization: 85%	427/500 [02:31<00:24,	2.93it/s]
Power Factorization: 86%	428/500 [02:31<00:24,	2.98it/s]
Power Factorization: 86%	429/500 [02:31<00:23,	3.05it/s]
Power Factorization: 86%	430/500 [02:32<00:23,	2.96it/s]
Power Factorization: 86%	431/500 [02:32<00:22,	3.02it/s]
Power Factorization: 86%	432/500 [02:32<00:21,	3.10it/s]
Power Factorization: 87%	433/500 [02:33<00:21,	3.12it/s]
Power Factorization: 87%	434/500 [02:33<00:21,	3.05it/s]
Power Factorization: 87%	435/500 [02:33<00:21,	3.04it/s]
Power Factorization: 87%	436/500 [02:34<00:20,	3.10it/s]
Power Factorization: 87%	437/500 [02:34<00:21,	3.00it/s]
Power Factorization: 88%	438/500 [02:34<00:20,	3.02it/s]
Power Factorization: 88%	439/500 [02:35<00:19,	3.06it/s]
Power Factorization: 88%	440/500 [02:35<00:19,	3.05it/s]
Power Factorization: 88%	441/500 [02:35<00:19,	3.10it/s]
Power Factorization: 88%	442/500 [02:36<00:20,	2.78it/s]
Power Factorization: 89%	443/500 [02:36<00:21,	2.70it/s]
Power Factorization: 89%	444/500 [02:36<00:20,	2.69it/s]
Power Factorization: 89%	445/500 [02:37<00:20,	2.68it/s]
Power Factorization: 89%	446/500 [02:37<00:19,	2.76it/s]

Power Factorization: 89%	447/500 [02:38<00:19,	2.74it/s]
Power Factorization: 90%	448/500 [02:38<00:18,	2.84it/s]
Power Factorization: 90%	449/500 [02:38<00:18,	2.75it/s]
Power Factorization: 90%	450/500 [02:39<00:17,	2.84it/s]
Power Factorization: 90%	451/500 [02:39<00:16,	2.93it/s]
Power Factorization: 90%	452/500 [02:39<00:15,	3.09it/s]
Power Factorization: 91%	453/500 [02:39<00:15,	3.10it/s]
Power Factorization: 91%	454/500 [02:40<00:15,	2.98it/s]
Power Factorization: 91%	455/500 [02:40<00:14,	3.02it/s]
Power Factorization: 91%	456/500 [02:41<00:14,	2.96it/s]
Power Factorization: 91%	457/500 [02:41<00:14,	2.91it/s]
Power Factorization: 92%	458/500 [02:41<00:14,	2.88it/s]
Power Factorization: 92%	459/500 [02:42<00:13,	3.01it/s]
Power Factorization: 92%	460/500 [02:42<00:12,	3.12it/s]
Power Factorization: 92%	461/500 [02:42<00:12,	3.07it/s]
Power Factorization: 92%	462/500 [02:43<00:13,	2.86it/s]
Power Factorization: 93%	463/500 [02:43<00:12,	2.93it/s]
Power Factorization: 93%	464/500 [02:43<00:12,	2.88it/s]
Power Factorization: 93%	465/500 [02:44<00:12,	2.87it/s]
Power Factorization: 93%	466/500 [02:44<00:11,	3.00it/s]
Power Factorization: 93%	467/500 [02:44<00:10,	3.08it/s]
Power Factorization: 94%	468/500 [02:44<00:09,	3.20it/s]
Power Factorization: 94%	469/500 [02:45<00:09,	3.35it/s]
Power Factorization: 94%	470/500 [02:45<00:09,	3.30it/s]

Power Factorization: 94%	471/500 [02:45<00:09, 3.20it/s]
Power Factorization: 94%	472/500 [02:46<00:09, 2.98it/s]
Power Factorization: 95%	473/500 [02:46<00:08, 3.01it/s]
Power Factorization: 95%	474/500 [02:46<00:08, 3.01it/s]
Power Factorization: 95%	475/500 [02:47<00:08, 2.97it/s]
Power Factorization: 95%	476/500 [02:47<00:07, 3.01it/s]
Power Factorization: 95%	477/500 [02:47<00:07, 3.05it/s]
Power Factorization: 96%	478/500 [02:48<00:07, 2.93it/s]
Power Factorization: 96%	479/500 [02:48<00:07, 2.95it/s]
Power Factorization: 96%	480/500 [02:48<00:06, 2.97it/s]
Power Factorization: 96%	481/500 [02:49<00:06, 2.98it/s]
Power Factorization: 96%	482/500 [02:49<00:05, 3.11it/s]
Power Factorization: 97%	483/500 [02:49<00:05, 3.12it/s]
Power Factorization: 97%	484/500 [02:50<00:05, 3.03it/s]
Power Factorization: 97%	485/500 [02:50<00:04, 3.03it/s]
Power Factorization: 97%	486/500 [02:50<00:04, 2.99it/s]
Power Factorization: 97%	487/500 [02:51<00:04, 2.99it/s]
Power Factorization: 98%	488/500 [02:51<00:04, 2.93it/s]
Power Factorization: 98%	489/500 [02:52<00:03, 2.79it/s]
Power Factorization: 98%	490/500 [02:52<00:03, 2.78it/s]
Power Factorization: 98%	491/500 [02:52<00:03, 2.88it/s]
Power Factorization: 98%	492/500 [02:53<00:02, 2.93it/s]
Power Factorization: 99%	493/500 [02:53<00:02, 2.97it/s]
Power Factorization: 99%	494/500 [02:53<00:02, 2.88it/s]

Power Factorization: 99%| | 495/500 [02:54<00:01, 2.88it/s]
Power Factorization: 99%| | 496/500 [02:54<00:01, 2.89it/s]
Power Factorization: 99%| | 497/500 [02:54<00:01, 3.00it/s]
Power Factorization: 100%| | 498/500 [02:55<00:00, 3.01it/s]
Power Factorization: 100%| | 499/500 [02:55<00:00, 2.99it/s]
Power Factorization: 100%| | 500/500 [02:55<00:00, 2.84it/s]
Cross Validation: 100%| | 5/5 [14:34<00:00, 174.92s/it]
Grid Search: 94%| | 15/16 [2:34:07<12:48, 768.19s/it]
Average RMS for k=20, lambda=10: 2.5650, Execution time: 174.8678s

Cross Validation: 0%| | 0/5 [00:00<?, ?it/s]
Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]
Power Factorization: 0%| | 1/500 [00:00<02:49, 2.94it/s]
Power Factorization: 0%| | 2/500 [00:00<02:49, 2.94it/s]
Power Factorization: 1%| | 3/500 [00:00<02:39, 3.12it/s]
Power Factorization: 1%| | 4/500 [00:01<02:46, 2.99it/s]
Power Factorization: 1%| | 5/500 [00:01<02:43, 3.04it/s]
Power Factorization: 1%| | 6/500 [00:02<02:45, 2.98it/s]
Power Factorization: 1%| | 7/500 [00:02<02:42, 3.04it/s]
Power Factorization: 2%| | 8/500 [00:02<02:48, 2.92it/s]
Power Factorization: 2%| | 9/500 [00:03<02:44, 2.99it/s]
Power Factorization: 2%| | 10/500 [00:03<02:44, 2.98it/s]
Power Factorization: 2%| | 11/500 [00:03<02:37, 3.10it/s]
Power Factorization: 2%| | 12/500 [00:04<02:55, 2.78it/s]
Cross Validation: 20%| | 1/5 [00:04<00:17, 4.37s/it]
Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization:	0%	1/500 [00:00<02:38, 3.14it/s]
Power Factorization:	0%	2/500 [00:00<02:40, 3.10it/s]
Power Factorization:	1%	3/500 [00:00<02:44, 3.02it/s]
Power Factorization:	1%	4/500 [00:01<02:42, 3.05it/s]
Power Factorization:	1%	5/500 [00:01<02:37, 3.15it/s]
Power Factorization:	1%	6/500 [00:01<02:44, 3.00it/s]
Power Factorization:	1%	7/500 [00:02<02:51, 2.87it/s]
Power Factorization:	2%	8/500 [00:02<02:44, 2.99it/s]
Power Factorization:	2%	9/500 [00:02<02:43, 3.00it/s]
Power Factorization:	2%	10/500 [00:03<02:44, 2.98it/s]
Power Factorization:	2%	11/500 [00:03<02:47, 2.93it/s]
Power Factorization:	2%	12/500 [00:04<02:58, 2.73it/s]
Cross Validation:	40%	2/5 [00:08<00:13, 4.43s/it]
Power Factorization:	0%	0/500 [00:00<?, ?it/s]
Power Factorization:	0%	1/500 [00:00<02:45, 3.02it/s]
Power Factorization:	0%	2/500 [00:00<02:44, 3.02it/s]
Power Factorization:	1%	3/500 [00:00<02:42, 3.06it/s]
Power Factorization:	1%	4/500 [00:01<02:45, 3.00it/s]
Power Factorization:	1%	5/500 [00:01<02:39, 3.10it/s]
Power Factorization:	1%	6/500 [00:01<02:43, 3.01it/s]
Power Factorization:	1%	7/500 [00:02<02:47, 2.94it/s]
Power Factorization:	2%	8/500 [00:02<02:45, 2.98it/s]
Power Factorization:	2%	9/500 [00:02<02:39, 3.08it/s]
Power Factorization:	2%	10/500 [00:03<02:34, 3.18it/s]

Power Factorization: 2%| | 11/500 [00:03<02:39, 3.07it/s]

Power Factorization: 2%| | 12/500 [00:04<02:56, 2.76it/s]

Cross Validation: 60%| | 3/5 [00:13<00:08, 4.43s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<03:27, 2.41it/s]

Power Factorization: 0%| | 2/500 [00:00<03:01, 2.75it/s]

Power Factorization: 1%| | 3/500 [00:01<02:50, 2.91it/s]

Power Factorization: 1%| | 4/500 [00:01<02:47, 2.96it/s]

Power Factorization: 1%| | 5/500 [00:01<02:44, 3.02it/s]

Power Factorization: 1%| | 6/500 [00:02<02:47, 2.94it/s]

Power Factorization: 1%| | 7/500 [00:02<02:49, 2.91it/s]

Power Factorization: 2%| | 8/500 [00:02<02:46, 2.95it/s]

Power Factorization: 2%| | 9/500 [00:03<02:43, 2.99it/s]

Power Factorization: 2%| | 10/500 [00:03<02:42, 3.02it/s]

Power Factorization: 2%| | 11/500 [00:03<02:44, 2.97it/s]

Power Factorization: 2%| | 12/500 [00:04<03:00, 2.70it/s]

Cross Validation: 80%| | 4/5 [00:17<00:04, 4.46s/it]

Power Factorization: 0%| | 0/500 [00:00<?, ?it/s]

Power Factorization: 0%| | 1/500 [00:00<02:36, 3.20it/s]

Power Factorization: 0%| | 2/500 [00:00<02:35, 3.20it/s]

Power Factorization: 1%| | 3/500 [00:00<02:39, 3.12it/s]

Power Factorization: 1%| | 4/500 [00:01<02:47, 2.97it/s]

Power Factorization: 1%| | 5/500 [00:01<02:44, 3.01it/s]

Power Factorization: 1%| | 6/500 [00:01<02:44, 3.01it/s]

Power Factorization: 1%| | 7/500 [00:02<02:42, 3.04it/s]

Power Factorization: 2%| | 8/500 [00:02<02:34, 3.18it/s]

Power Factorization: 2%| | 9/500 [00:02<02:37, 3.12it/s]

Power Factorization: 2%| | 10/500 [00:03<02:33, 3.20it/s]

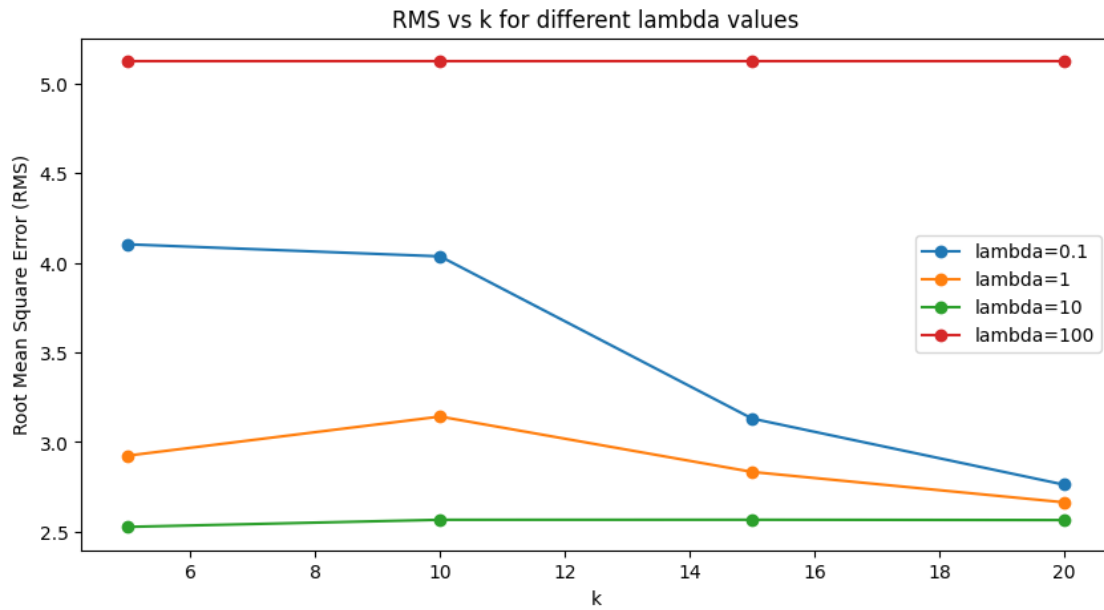
Power Factorization: 2%| | 11/500 [00:03<02:36, 3.12it/s]

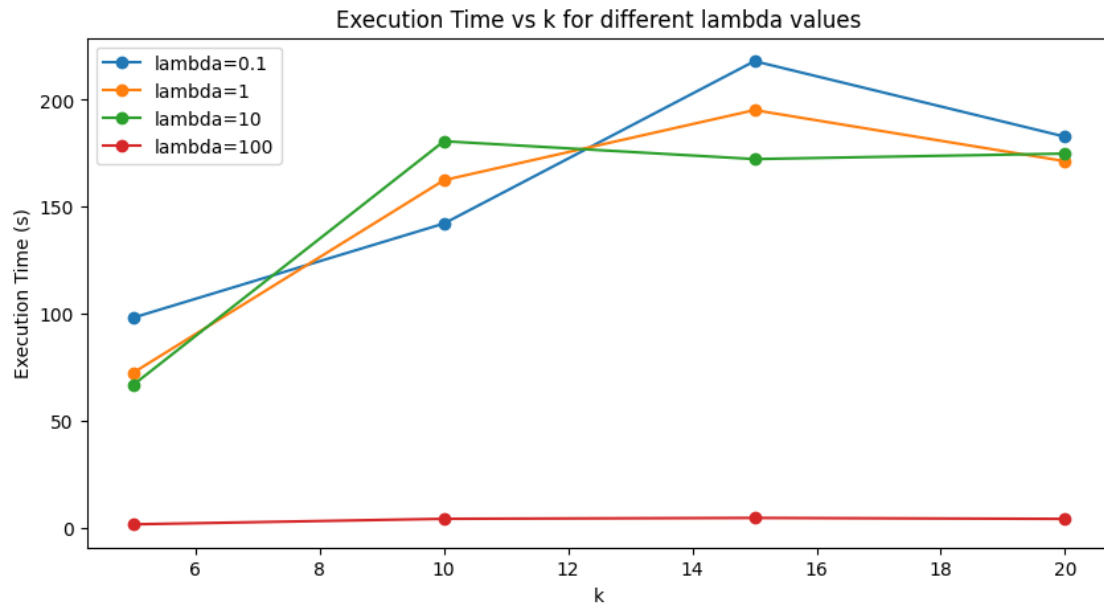
Power Factorization: 2%| | 12/500 [00:04<02:53, 2.81it/s]

Cross Validation: 100%| | 5/5 [00:22<00:00, 4.42s/it]

Grid Search: 100%| | 16/16 [2:34:29<00:00, 579.37s/it]

Average RMS for k=20, lambda=100: 5.1246, Execution time: 4.3601s





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