

DonorsChoose

DonorsChoose.org receives hundreds of thousands of project proposals each year for classroom projects in need of funding. Right now, a large number of volunteers is needed to manually screen each submission before it's approved to be posted on the DonorsChoose.org website.

Next year, DonorsChoose.org expects to receive close to 500,000 project proposals. As a result, there are three main problems they need to solve:

- How to scale current manual processes and resources to screen 500,000 projects so that they can be posted as quickly and as efficiently as possible
- How to increase the consistency of project vetting across different volunteers to improve the experience for teachers
- How to focus volunteer time on the applications that need the most assistance

The goal of the competition is to predict whether or not a DonorsChoose.org project proposal submitted by a teacher will be approved, using the text of project descriptions as well as additional metadata about the project, teacher, and school. DonorsChoose.org can then use this information to identify projects most likely to need further review before approval.

About the DonorsChoose Data Set

The `train.csv` data set provided by DonorsChoose contains the following features:

Feature	Description
<code>project_id</code>	A unique identifier for the proposed project. Example: p036502
<code>project_title</code>	Title of the project. Examples: Art Will Make You Happy First Grade Fun
<code>project_grade_category</code>	Grade level of students for which the project is targeted. One of the following enumerated values: • Grades PreK-2 • Grades 3-5 • Grades 6-8 • Grades 9-12
<code>project_subject_categories</code>	One or more (comma-separated) subject categories for the project from the following enumerated list of values: • Applied Learning • Care & Hunger • Health & Sports • History & Civics • Literacy & Language • Math & Science • Music & The Arts • Special Needs • Warmth
<code>school_state</code>	Examples: • Music & The Arts • Literacy & Language, Math & Science
<code>project_subject_subcategories</code>	State where school is located (Two-letter U.S. postal code). Example: WY One or more (comma-separated) subject subcategories for the project. Examples: • Literacy • Literature & Writing, Social Sciences
<code>project_resource_summary</code>	An explanation of the resources needed for the project. Example: • My students need hands on literacy materials to manage sensory needs!
<code>project_essay_1</code>	First application essay*
<code>project_essay_2</code>	Second application essay*
<code>project_essay_3</code>	Third application essay*
<code>project_essay_4</code>	Fourth application essay*
<code>project_submitted_datetime</code>	Datetime when project application was submitted. Example: 2016-04-28 12:43:56.245
<code>teacher_id</code>	A unique identifier for the teacher of the proposed project. Example: bdf8baa8fedef6bfeec7ae4ff1c15c56 Teacher's title. One of the following enumerated values: • nan

Feature	Description
teacher_prefix	Mr. Mrs. Ms. Teacher.
•	
•	
•	

teacher_number_of_previously_posted_projects	Number of project applications previously submitted by the same teacher. Example: 2
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* See the section **Notes on the Essay Data** for more details about these features.

Additionally, the `resources.csv` data set provides more data about the resources required for each project. Each line in this file represents a resource required by a project:

Feature	Description
<code>id</code>	A <code>project_id</code> value from the <code>train.csv</code> file. Example: p036502
<code>description</code>	Description of the resource. Example: Tenor Saxophone Reeds, Box of 25
<code>quantity</code>	Quantity of the resource required. Example: 3
<code>price</code>	Price of the resource required. Example: 9.95

Note: Many projects require multiple resources. The `id` value corresponds to a `project_id` in `train.csv`, so you use it as a key to retrieve all resources needed for a project:

The data set contains the following label (the value you will attempt to predict):

Label	Description
<code>project_is_approved</code>	A binary flag indicating whether DonorsChoose approved the project. A value of 0 indicates the project was not approved, and a value of 1 indicates the project was approved.

Notes on the Essay Data

Prior to May 17, 2016, the prompts for the essays were as follows:

- `__project_essay_1:` "Introduce us to your classroom"
- `__project_essay_2:` "Tell us more about your students"
- `__project_essay_3:` "Describe how your students will use the materials you're requesting"
- `__project_essay_3:` "Close by sharing why your project will make a difference"

Starting on May 17, 2016, the number of essays was reduced from 4 to 2, and the prompts for the first 2 essays were changed to the following:

- `__project_essay_1:` "Describe your students: What makes your students special? Specific details about their background, your neighborhood, and your school are all helpful."
- `__project_essay_2:` "About your project: How will these materials make a difference in your students' learning and improve their school lives?"

For all projects with `project_submitted_datetime` of 2016-05-17 and later, the values of `project_essay_3` and `project_essay_4` will be NaN.

In [2]:

```
%matplotlib inline
import warnings
warnings.filterwarnings("ignore")

import sqlite3
import pandas as pd
import numpy as np
import nltk
import string
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.feature_extraction.text import TfidfTransformer
from sklearn.feature_extraction.text import TfidfVectorizer

from sklearn.feature_extraction.text import CountVectorizer
from sklearn.metrics import confusion_matrix
from sklearn import metrics
from sklearn.metrics import roc_curve, auc
from nltk.stem.porter import PorterStemmer

import re
# Tutorial about Python regular expressions: https://pymotw.com/2/re/
import string
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.stem.wordnet import WordNetLemmatizer
```

```

from gensim.models import Word2Vec
from gensim.models import KeyedVectors
import pickle

from tqdm import tqdm
import os

from plotly import plotly
import plotly.offline as offline
import plotly.graph_objs as go
offline.init_notebook_mode()
from collections import Counter

```

1.1 Reading Data

In [3]:

```
os.chdir('C:\\Users\\nandu\\Desktop\\Nandu\\workarea')
```

In [4]:

```
project_data = pd.read_csv('train_data.csv')
resource_data = pd.read_csv('resources.csv')
```

In [5]:

```
print("Number of data points in train data", project_data.shape)
print("-"*50)
print("The attributes of data :", project_data.columns.values)
```

Number of data points in train data (109248, 17)

The attributes of data : ['Unnamed: 0' 'id' 'teacher_id' 'teacher_prefix' 'school_state'
 'project_submitted_datetime' 'project_grade_category'
 'project_subject_categories' 'project_subject_subcategories'
 'project_title' 'project_essay_1' 'project_essay_2' 'project_essay_3'
 'project_essay_4' 'project_resource_summary'
 'teacher_number_of_previously_posted_projects' 'project_is_approved']

In [6]:

```
# how to replace elements in list python: https://stackoverflow.com/a/2582163/4084039
cols = ['Date' if x=='project_submitted_datetime' else x for x in list(project_data.columns)]
```

```
#sort dataframe based on time pandas python: https://stackoverflow.com/a/49702492/4084039
project_data['Date'] = pd.to_datetime(project_data['project_submitted_datetime'])
project_data.drop('project_submitted_datetime', axis=1, inplace=True)
project_data.sort_values(by=['Date'], inplace=True)
```

```
# how to reorder columns pandas python: https://stackoverflow.com/a/13148611/4084039
project_data = project_data[cols]
```

```
project_data.head(2)
```

Out[6]:

	Unnamed: 0	id	teacher_id	teacher_prefix	school_state	Date	project_grade_category	project_subject_categories
55660	8393	p205479	2bf07ba08945e5d8b2a3f269b2b3cfe5	Mrs.	CA	2016-04-27 00:27:36	Grades PreK-2	Math & Science
76127	37728	p043609	3f60494c61921b3b43ab61bdde2904df	Ms.	UT	2016-04-27 00:31:25	Grades 3-5	Special Needs

In [7]:

```
print("Number of data points in train data", resource_data.shape)
print(resource_data.columns.values)
resource_data.head(2)
```

Number of data points in train data (1541272, 4)
['id' 'description' 'quantity' 'price']

Out[7]:

		id	description	quantity	price
0	p233245	LC652 - Lakeshore Double-Space Mobile Drying Rack		1	149.00
1	p069063	Bouncy Bands for Desks (Blue support pipes)		3	14.95

1.2 preprocessing of project_subject_categories

In [8]:

```
categories = list(project_data['project_subject_categories'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-string
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-python
cat_list = []
for i in categories:
    temp = ""
    # consider we have text like this "Math & Science, Warmth, Care & Hunger"
    for j in i.split(','):# it will split it in three parts ["Math & Science", "Warmth", "Care & Hunger"]
        if 'The' in j.split(): # this will split each of the category based on space "Math & Science"=> "Math", "&", "Science"
            j=j.replace('The','') # if we have the words "The" we are going to replace it with "(i.e removing 'The')"
            j = j.replace(' ','') # we are placing all the ' '(space) with "(empty) ex:"Math & Science"=>"Math&Science"
            temp+=j.strip()+" "# abc ".strip() will return "abc", remove the trailing spaces
            temp = temp.replace('&','_') # we are replacing the & value into
    cat_list.append(temp.strip())

project_data['clean_categories'] = cat_list
project_data.drop(['project_subject_categories'], axis=1, inplace=True)

from collections import Counter
my_counter = Counter()
for word in project_data['clean_categories'].values:
    my_counter.update(word.split())

cat_dict = dict(my_counter)
sorted_cat_dict = dict(sorted(cat_dict.items(), key=lambda kv: kv[1]))
```

1.3 preprocessing of project_subject_subcategories

In [9]:

```
sub_categories = list(project_data['project_subject_subcategories'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-string
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-python

sub_cat_list = []
for i in sub_categories:
    temp = ""
    # consider we have text like this "Math & Science, Warmth, Care & Hunger"
    for j in i.split(','):# it will split it in three parts ["Math & Science", "Warmth", "Care & Hunger"]
        if 'The' in j.split(): # this will split each of the category based on space "Math & Science"=> "Math", "&", "Science"
            j=j.replace('The','') # if we have the words "The" we are going to replace it with "(i.e removing 'The')"
            j = j.replace(' ','') # we are placing all the ' '(space) with "(empty) ex:"Math & Science"=>"Math&Science"
            temp +=j.strip()+" "# abc ".strip() will return "abc", remove the trailing spaces
            temp = temp.replace('&','_')
    sub_cat_list.append(temp.strip())

project_data['clean_subcategories'] = sub_cat_list
project_data.drop(['project_subject_subcategories'], axis=1, inplace=True)
```

```
# count of all the words in corpus python: https://stackoverflow.com/a/22898595/4084039
```

```
my_counter = Counter()
```

```
for word in project_data['clean_subcategories'].values:
```

```
    my_counter.update(word.split())
```

```
sub_cat_dict = dict(my_counter)
```

```
sorted_sub_cat_dict = dict(sorted(sub_cat_dict.items(), key=lambda kv: kv[1]))
```

1.3 Text preprocessing

In [10]:

```
# merge two column text dataframe:
```

```
project_data["essay"] = project_data["project_essay_1"].map(str) + \  
    project_data["project_essay_2"].map(str) + \  
    project_data["project_essay_3"].map(str) + \  
    project_data["project_essay_4"].map(str)
```

In [11]:

```
project_data.head(2)
```

Out[11]:

Unnamed: 0	id	teacher_id	teacher_prefix	school_state	Date	project_grade_category	project_title	project_es
55660	8393	p205479	2bf07ba08945e5d8b2a3f269b2b3cfe5	Mrs.	CA 2016- 04-27 00:27:36	Grades PreK-2	Engineering STEAM into the Primary Classroom	I have fortunate er to use the
76127	37728	p043609	3f60494c61921b3b43ab61bdde2904df	Ms.	UT 2016- 04-27 00:31:25	Grades 3-5	Sensory Tools for Focus	Imagine be 9 year You're ir

In [12]:

```
#### 1.4.2.3 Using Pretrained Models: TFIDF weighted W2V
```

In [13]:

```
# printing some random reviews  
print(project_data['essay'].values[0])  
print("=*50)  
print(project_data['essay'].values[150])  
print("=*50)  
print(project_data['essay'].values[1000])  
print("=*50)  
print(project_data['essay'].values[20000])  
print("=*50)  
print(project_data['essay'].values[99999])  
print("=*50)
```

I have been fortunate enough to use the Fairy Tale STEM kits in my classroom as well as the STEM journals, which my students really enjoyed. I would love to implement more of the Lakeshore STEM kits in my classroom for the next school year as they provide excellent and engaging STEM lessons. My students come from a variety of backgrounds, including language and socioeconomic status. Many of them don't have a lot of experience in science and engineering and these kits give me the materials to provide these exciting opportunities for my students. Each month I try to do several science or STEM/STEAM projects. I would use the kits and robot to help guide my science instruction in engaging and meaningful ways. I can adapt the kits to my current language arts pacing guide where we already teach some of the material in the kits like tall tales (Paul Bunyan) or Johnny Apple seed. The following units will be taught in the next school year where I will implement these kits: magnets, motion, sink vs. float, robots. I often get to these units and don't know if I am teaching the right way or using the right materials. The kits will give me additional ideas, strategies, and lessons to prepare my students in science. It is challenging to develop high quality science activities. These kits give me the materials I need to provide my students with science activities that will go along with the curriculum in my classroom. Although I have some things (like magnets) in my classroom, I don't know how to use them effectively. The kits will provide me with the right amount of materials and show me how to use them in an appropriate way.

=====

I teach high school English to students with learning and behavioral disabilities. My students all vary in their ability level. However, the ultimate goal is to increase all students literacy levels. This includes their reading, writing, and communication levels. I teach a really dynamic group of students. However, my students face a lot of challenges. My students all live in poverty and in a dangerous neighborhood. Despite these challenges, I have studen

over, my students face a lot of challenges. My students all live in poverty and in a dangerous neighborhood. Despite these challenges, I have students who have the desire to defeat these challenges. My students all have learning disabilities and currently all are performing below grade level. My students are visual learners and will benefit from a classroom that fulfills their preferred learning style. The materials I am requesting will allow my students to be prepared for the classroom with the necessary supplies. Too often I am challenged with students who come to school unprepared for class due to economic challenges. I want my students to be able to focus on learning and not how they will be able to get school supplies. The supplies will last all year. Students will be able to complete written assignments and maintain a classroom journal. The chart paper will be used to make learning more visual in class and to create posters to aid students in their learning. The students have access to a classroom printer. The toner will be used to print student work that is completed on the classroom Chromebooks. I want to try and remove all barriers for the students learning and create opportunities for learning. One of the biggest barriers is the students not having the resources to get pens, paper, and folders. My students will be able to increase their literacy skills because of this project.

=====

"Life moves pretty fast. If you don't stop and look around once in awhile, you could miss it." from the movie, Ferris Bueller's Day Off. Think back... what do you remember about your grandparents? How amazing would it be to be able to flip through a book to see a day in their lives? My second graders are voracious readers! They love to read both fiction and nonfiction books. Their favorite characters include Pete the Cat, Fly Guy, Piggie and Elephant, and Mercy Watson. They also love to read about insects, space and plants. My students are hungry bookworms! My students are eager to learn and read about the world around them. My kids love to be at school and are like little sponges absorbing everything around them. Their parents work long hours and usually do not see their children. My students are usually cared for by their grandparents or a family friend. Most of my students do not have someone who speaks English at home. Thus it is difficult for my students to acquire language. Now think forward... wouldn't it mean a lot to your kids, nieces or nephews or grandchildren, to be able to see a day in your life today 30 years from now? Memories are so precious to us and being able to share these memories with future generations will be a rewarding experience. As part of our social studies curriculum, students will be learning about changes over time. Students will be studying photos to learn about how their community has changed over time. In particular, we will look at photos to study how the land, buildings, clothing, and schools have changed over time. As a culminating activity, my students will capture a slice of their history and preserve it through scrap booking. Key important events in their young lives will be documented with the date, location, and names. Students will be using photos from home and from school to create their second grade memories. Their scrap books will preserve their unique stories for future generations to enjoy. Your donation to this project will provide my second graders with an opportunity to learn about social studies in a fun and creative manner. Through their scrapbooks, children will share their story with others and have a historical document for the rest of their lives.

=====

"A person's a person, no matter how small." (Dr. Seuss) I teach the smallest students with the biggest enthusiasm for learning. My students learn in many different ways using all of our senses and multiple intelligences. I use a wide range of techniques to help all my students succeed.
Students in my class come from a variety of different backgrounds which makes for wonderful sharing of experiences and cultures, including Native Americans.
Our school is a caring community of successful learners which can be seen through collaborative student project based learning in and out of the classroom. Kindergarteners in my class love to work with hands-on materials and have many different opportunities to practice a skill before it is mastered. Having the social skills to work cooperatively with friends is a crucial aspect of the kindergarten curriculum. Montana is the perfect place to learn about agriculture and nutrition. My students love to role play in our pretend kitchen in the early childhood classroom. I have had several kids ask me, "Can we try cooking with REAL food?" I will take their idea and create "Common Core Cooking Lessons!" where we learn important math and writing concepts while cooking delicious healthy food for snack time. My students will have a grounded appreciation for the work that went into making the food and knowledge of where the ingredients came from as well as how it's healthy for their bodies. This project would expand our learning of nutrition and agricultural cooking recipes by having us peel our own apples to make homemade applesauce, make our own bread, and mix up healthy plants from our classroom garden in the spring. We will also create our own cookbooks to be printed and shared with families.
Students will gain math and literature skills as well as a life long enjoyment for healthy cooking.nannan

=====

My classroom consists of twenty-two amazing sixth graders from different cultures and backgrounds. They are a social bunch who enjoy working in partners and working with groups. They are hard-working and eager to head to middle school next year. My job is to get them ready to make this transition and make it as smooth as possible. In order to do this, my students need to come to school every day and feel safe and ready to learn. Because they are getting ready to head to middle school, I give them lots of choice- choice on where to sit and work, the order to complete assignments, choice of projects, etc. Part of the students feeling safe is the ability for them to come into a welcoming, encouraging environment. My room is colorful and the atmosphere is casual. I want them to take ownership of the classroom because we ALL share it together. Because my time with them is limited, I want to ensure they get the most of this time and enjoy it to the best of their abilities. Currently, we have twenty-two desks of differing sizes, yet the desks are similar to the ones the students will use in middle school. We also have a kidney table with crates for seating. I allow my students to choose their own spots while they are working independently or in groups. More often than not, most of them move out of their desks and onto the crates. Believe it or not, this has proven to be more successful than making them stay at their desks! It is because of this that I am looking toward the "Flexible Seating" option for my classroom.
The students look forward to their work time so they can move around the room. I would like to get rid of the constricting desks and move toward more "fun" seating options. I am requesting various seating so my students have more options to sit. Currently, I have a stool and a papasan chair I inherited from the previous sixth-grade teacher as well as five milk crate seats I made, but I would like to give them more options and reduce the competition for the "good seats". I am also requesting two rugs as not only more seating options but to make the classroom more welcoming and appealing. In order for my students to be able to write and complete work without desks, I am requesting a class set of clipboards. Finally, due to curriculum that requires groups to work together, I am requesting tables that we can fold up when we are not using them to leave more room for our flexible seating options.
I know that with more seating options, they will be that much more excited about coming to school! Thank you for your support in making my classroom one students will remember forever!nannan

=====



In [14]:

```
# https://stackoverflow.com/a/47091490/4084039
```

```
import re
```

```
def decontracted(phrase):
```

```
    # specific
```

```
    phrase = re.sub(r"won't", "will not", phrase)
```

```
    phrase = re.sub(r"can't", "can not", phrase)
```

```
    # general
```

```
    phrase = re.sub(r"\n't", " not", phrase)
```

```
    phrase = re.sub(r"\re", " are", phrase)
```

```
    phrase = re.sub(r"\s", " is", phrase)
```

```
    phrase = re.sub(r"\d", " would", phrase)
```

```
    phrase = re.sub(r"\ll", " will", phrase)
```

```
    phrase = re.sub(r"\t", " not", phrase)
```

```
    phrase = re.sub(r"\ve", " have", phrase)
```

```
    phrase = re.sub(r"\m", " am", phrase)
```

```
    return phrase
```

In [15]:

```
sent = decontracted(project_data['essay'].values[20000])
print(sent)
print("=="*50)
```

"A person is a person, no matter how small." (Dr.Seuss) I teach the smallest students with the biggest enthusiasm for learning. My students learn in many different ways using all of our senses and multiple intelligences. I use a wide range of techniques to help all my students succeed. Students in my class come from a variety of different backgrounds which makes for wonderful sharing of experiences and cultures, including Native Americans. Our school is a caring community of successful learners which can be seen through collaborative student project based learning in and out of the classroom. Kindergarteners in my class love to work with hands-on materials and have many different opportunities to practice a skill before it is mastered. Having the social skills to work cooperatively with friends is a crucial aspect of the kindergarten curriculum. Montana is the perfect place to learn about agriculture and nutrition. My students love to role play in our pretend kitchen in the early childhood classroom. I have had several kids ask me, "Can we try cooking with REAL food?" I will take their idea and create "Common Core Cooking Lessons" where we learn important math and writing concepts while cooking delicious healthy food for snack time. My students will have a grounded appreciation for the work that went into making the food and knowledge of where the ingredients came from as well as how it is healthy for their bodies. This project would expand our learning of nutrition and agricultural cooking recipes by having us peel our own apples to make homemade applesauce, make our own bread, and mix up healthy plants from our classroom garden in the spring. We will also create our own cookbooks to be printed and shared with families. Students will gain math and literature skills as well as a life long enjoyment for healthy cooking.nannan

=====

In [16]:

```
# \r \n \t remove from string python: http://texthandler.com/info/remove-line-breaks-python/
sent = sent.replace("\r", ' ')
sent = sent.replace("\n", ' ')
sent = sent.replace("\t", ' ')
print(sent)
```

A person is a person, no matter how small. (Dr.Seuss) I teach the smallest students with the biggest enthusiasm for learning. My students learn in many different ways using all of our senses and multiple intelligences. I use a wide range of techniques to help all my students succeed. Students in my class come from a variety of different backgrounds which makes for wonderful sharing of experiences and cultures, including Native Americans. Our school is a caring community of successful learners which can be seen through collaborative student project based learning in and out of the classroom. Kindergarteners in my class love to work with hands-on materials and have many different opportunities to practice a skill before it is mastered. Having the social skills to work cooperatively with friends is a crucial aspect of the kindergarten curriculum. Montana is the perfect place to learn about agriculture and nutrition. My students love to role play in our pretend kitchen in the early childhood classroom. I have had several kids ask me, Can we try cooking with REAL food? I will take their idea and create Common Core Cooking Lessons where we learn important math and writing concepts while cooking delicious healthy food for snack time. My students will have a grounded appreciation for the work that went into making the food and knowledge of where the ingredients came from as well as how it is healthy for their bodies. This project would expand our learning of nutrition and agricultural cooking recipes by having us peel our own apples to make homemade applesauce, make our own bread, and mix up healthy plants from our classroom garden in the spring. We will also create our own cookbooks to be printed and shared with families. Students will gain math and literature skills as well as a life long enjoyment for healthy cooking.nannan

In [17]:

```
#remove spacial character: https://stackoverflow.com/a/5843547/4084039
sent = re.sub("[^A-Za-z0-9]+", ' ', sent)
print(sent)
```

A person is a person no matter how small Dr Seuss I teach the smallest students with the biggest enthusiasm for learning My students learn in many different ways using all of our senses and multiple intelligences I use a wide range of techniques to help all my students succeed Students in my class come from a variety of different backgrounds which makes for wonderful sharing of experiences and cultures including Native Americans Our school is a caring community of successful learners which can be seen through collaborative student project based learning in and out of the classroom Kindergarteners in my class love to work with hands on materials and have many different opportunities to practice a skill before it is mastered Having the social skills to work cooperatively with friends is a crucial aspect of the kindergarten curriculum Montana is the perfect place to learn about agriculture and nutrition My students love to role play in our pretend kitchen in the early childhood classroom I have had several kids ask me Can we try cooking with REAL food I will take their idea and create Common Core Cooking Lessons where we learn important math and writing concepts while cooking delicious healthy food for snack time My students will have a grounded appreciation for the work that went into making the food and knowledge of where the ingredients came from as well as how it is healthy for their bodies This project would expand our learning of nutrition and agricultural cooking recipes by having us peel our own apples to make homemade applesauce make our own bread and mix up healthy plants from our classroom garden in the spring We will also create our own cookbooks to be printed and shared with families Students will gain math and literature skills as well as a life long enjoyment for healthy cooking nannan

In [18]:

```
# https://gist.github.com/sebleier/554280
# we are removing the words from the stop words list: 'no', 'nor', 'not'
stopwords= ['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've",
"you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself',
'she', 'she's', 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their',
'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', 'that'll', 'these', 'those',
'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does',
'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of',
'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after',
'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further',
'then', 'once', 'here', 'there', 'where', 'when', 'how', 'all', 'any', 'both', 'each', 'few', 'more')
```

```
then , once , here , there , when , where , why , how , all , any , both , each , few , more ,\n'most' , 'other' , 'some' , 'such' , 'only' , 'own' , 'same' , 'so' , 'than' , 'too' , 'very' , \n's' , 't' , 'can' , 'will' , 'just' , 'don' , 'don't' , 'should' , 'should've' , 'now' , 'd' , 'll' , 'm' , 'o' , 're' , \n've' , 'y' , 'ain' , 'aren' , "aren't" , 'couldn't' , 'couldn't' , 'didn't' , 'didn't' , 'doesn't' , 'hadn't' ,\n"hadn't" , 'hasn't' , 'hasn't' , 'haven' , 'haven't' , 'isn' , "isn't" , 'ma' , 'mightn' , "mightn't" , 'mustn'\n"mustn't" , 'needn't' , "needn't" , 'shan' , "shan't" , 'shouldn' , "shouldn't" , 'wasn' , "wasn't" , 'weren' , "weren't" ,\n'won' , 'won't' , 'wouldn' , "wouldn't"]
```

In [19]:

```
# Combining all the above students\nfrom tqdm import tqdm\npreprocessed_essays = []\n# tqdm is for printing the status bar\nfor sentence in tqdm(project_data['essay'].values):\n    sent = decontracted(sentence)\n    sent = sent.replace("\r", ' ')\n    sent = sent.replace("\\"", ' ')\n    sent = sent.replace("\n", ' ')\n    sent = re.sub("[^A-Za-z0-9]+", ' ', sent)\n    # https://gist.github.com/sebleier/554280\n    sent = ''.join(e for e in sent.split() if e.lower() not in stopwords)\n    preprocessed_essays.append(sent.lower().strip())
```

100% | 109248/109248
[01:30<00:00, 1205.77it/s]

In [20]:

```
# after preprocesing\npreprocessed_essays[20000]
```

Out[20]:

'person person no matter small dr seuss teach smallest students biggest enthusiasm learning students learn many different ways using senses multiple intelligences use wide range techniques help students succeed students class come variety different backgrounds makes wonderful sharing experiences cultures including native americans school caring community successful learners seen collaborative student project based learning classroom kindergarteners class love work hands materials many different opportunities practice skill mastered social skills work cooperatively friends crucial aspect kindergarten curriculum montana perfect place learn agriculture nutrition students love role play pretend kitchen early childhood classroom several kids ask try cooking real food take idea create common core cooking lessons learn important math writing concepts cooking delicious healthy food snack time students grounded appreciation work went making food knowledge ingredients came well healthy bodies project would expand learning nutrition agricultural cooking recipes us peel apples make homemade applesauce make bread mix healthy plants classroom garden spring also create cookbooks printed shared families students gain math literature skills well life long enjoyment healthy cooking nannan'

In [21]:

```
print(type(preprocessed_essays))
```

<class 'list'>

1.4 Preprocessing of `project_title`

In [22]:

```
project_data.columns
```

Out[22]:

```
Index(['Unnamed: 0', 'id', 'teacher_id', 'teacher_prefix', 'school_state',\n       'Date', 'project_grade_category', 'project_title', 'project_essay_1',\n       'project_essay_2', 'project_essay_3', 'project_essay_4',\n       'project_resource_summary',\n       'teacher_number_of_previously_posted_projects', 'project_is_approved',\n       'clean_categories', 'clean_subcategories', 'essay'],\ndtype='object')
```

In [23]:

```
# similarly you can preprocess the titles also
```

```
from tqdm import tqdm\npreprocessed_project_title = []\n# tqdm is for printing the status bar
```

```
for sentance in tqdm(project_data['project_title'].values):
    sent = decontracted(sentance)
    sent = sent.replace("\r", ' ')
    sent = sent.replace("\n", ' ')
    sent = sent.replace("\n", ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ''.join(e for e in sent.split() if e not in stopwords)
    preprocessed_project_title.append(sent.lower().strip())
```

100%|██████████| 109248/109248 [00:04<00:00, 23106.11it/s]

In [24]:

```
preprocessed_project_title[500]
```

Out[24]:

'special needs students need additional access technology'

1.5 Preparing data for creating models

In [25]:

```
resource_data.shape
```

Out[25]:

(1541272, 4)

In [26]:

```
project_data.shape
```

Out[26]:

(109248, 18)

In [27]:

```
price_data = resource_data.groupby('id').agg({'price':'sum', 'quantity':'sum'}).reset_index()
price_data.head(2)
```

Out[27]:

	id	price	quantity
0	p000001	459.56	7
1	p000002	515.89	21

In [28]:

```
project_data = pd.merge(project_data, price_data, on='id', how='left')
```

In [29]:

```
project_data.shape
```

Out[29]:

(109248, 20)

In [30]:

```
project_data.head()
```

Out[30]:

				teacher_id	teacher_prefix	school_state	Date	project_grade_category	project_title	project_essay_1
0	8393	p205479	2bf07ba08945e5d8b2a3f269b2b3cf5	Mrs.		CA	2016-04-27 00:27:36	Grades PreK-2	Engineering STEAM into the Primary Classroom	I have been fortunate enough to use the Fairy...
1	37728	p043609	3f60494c61921b3b43ab61bdde2904df	Ms.		UT	2016-04-27 00:31:25	Grades 3-5	Sensory Tools for Focus	Imagine being 8 9 years old You're in you th...
2	74477	p189804	4a97f3a390bfe21b99cf5e2b81981c73	Mrs.		CA	2016-04-27 00:46:53	Grades PreK-2	Mobile Learning with a Mobile Listening Center	Having a class of 24 students comes with diver...
3	100660	p234804	cbc0e38f522143b86d372f8b43d4cff3	Mrs.		GA	2016-04-27 00:53:00	Grades PreK-2	Flexible Seating for Flexible Learning	I recently read an article about giving studen...
4	33679	p137682	06f6e62e17de34fcf81020c77549e1d5	Mrs.		WA	2016-04-27 01:05:25	Grades 3-5	Going Deep: The Art of Inner Thinking!	My students crave challenge they eat obstacle...

In [31]:

```
project_data.columns
```

Out[31]:

```
Index(['Unnamed: 0', 'id', 'teacher_id', 'teacher_prefix', 'school_state', 'Date', 'project_grade_category', 'project_title', 'project_essay_1', 'project_essay_2', 'project_essay_3', 'project_essay_4', 'project_resource_summary', 'teacher_number_of_previously_posted_projects', 'project_is_approved', 'clean_categories', 'clean_subcategories', 'essay', 'price', 'quantity'], dtype='object')
```

In [32]:

```
# similarly you can preprocess the titles also
df1= project_data[["clean_categories", "clean_subcategories", "school_state","project_grade_category", "teacher_prefix","teacher_number_of_previously_posted_projects", "quantity","project_is_approved","price"]]
```

In [33]:

```
df1.shape
```

Out[33]:

```
(109248, 9)
```

In [34]:

```
df1['Preprocessed_Essay'] = preprocessed_essays
```

In [35]:

```
df1['Preprocessed_Project_Title'] = preprocessed_project_title
```

In [36]:

```
df1.head()
```

Out[36]:

	clean_categories	clean_subcategories	school_state	project_grade_category	teacher_prefix	teacher_number_of_previously_posted_projects	quantity	
0	Math_Science	AppliedSciences Health_LifeScience	CA	Grades PreK-2	Mrs.		53	4
1	SpecialNeeds	SpecialNeeds	UT	Grades 3-5	Ms.		4	8
2	Literacy_Language	Literacy	CA	Grades PreK-2	Mrs.		10	10
3	AppliedLearning	EarlyDevelopment	GA	Grades PreK-2	Mrs.		2	5
4	Literacy_Language	Literacy	WA	Grades 3-5	Mrs.		2	10

In [37]:

```
df1.columns
```

Out[37]:

```
Index(['clean_categories', 'clean_subcategories', 'school_state',  
       'project_grade_category', 'teacher_prefix',  
       'teacher_number_of_previously_posted_projects', 'quantity',  
       'project_is_approved', 'price', 'Preprocessed_Essay',  
       'Preprocessed_Project_Title'],  
      dtype='object')
```

In [38]:

```
df1.shape
```

Out[38]:

```
(109248, 11)
```

In [39]:

```
project_data.columns
```

Out[39]:

```
Index(['Unnamed: 0', 'id', 'teacher_id', 'teacher_prefix', 'school_state',  
       'Date', 'project_grade_category', 'project_title', 'project_essay_1',  
       'project_essay_2', 'project_essay_3', 'project_essay_4',  
       'project_resource_summary',  
       'teacher_number_of_previously_posted_projects', 'project_is_approved',  
       'clean_categories', 'clean_subcategories', 'essay', 'price',  
       'quantity'],  
      dtype='object')
```

we are going to consider

- school_state : categorical data
- clean_categories : categorical data
- clean_subcategories : categorical data
- project_grade_category : categorical data
- teacher_prefix : categorical data

- project_title : text data
- text : text data
- project_resource_summary: text data (optional)

- quantity : numerical (optional)
- teacher_number_of_previously_posted_projects : numerical
- price : numerical

1.5.1 Vectorizing Categorical data

• <https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/handling-categorical-and-numerical-features/>

In []:

```
# we use count vectorizer to convert the values into one
from sklearn.feature_extraction.text import CountVectorizer
vectorizer = CountVectorizer(vocabulary=list(sorted_cat_dict.keys()), lowercase=False, binary=True)
categories_one_hot = vectorizer.fit_transform(project_data['clean_categories'].values)
print(vectorizer.get_feature_names())
print("Shape of matrix after one hot encoding ",categories_one_hot.shape)
```

In []:

```
# we use count vectorizer to convert the values into one
vectorizer = CountVectorizer(vocabulary=list(sorted_sub_cat_dict.keys()), lowercase=False, binary=True)
sub_categories_one_hot = vectorizer.fit_transform(project_data['clean_subcategories'].values)
print(vectorizer.get_feature_names())
print("Shape of matrix after one hot encoding ",sub_categories_one_hot.shape)
```

In []:

```
# you can do the similar thing with state, teacher_prefix and project_grade_category also
```

1.5.2 Vectorizing Text data

1.5.2.1 Bag of words

In []:

```
# We are considering only the words which appeared in at least 10 documents(rows or projects).
vectorizer = CountVectorizer(min_df=10)
text_bow = vectorizer.fit_transform(preprocessed_essays)
print("Shape of matrix after one hot encoding ",text_bow.shape)
```

In []:

```
# you can vectorize the title also
# before you vectorize the title make sure you preprocess it
```

1.5.2.2 TFIDF vectorizer

In []:

```
from sklearn.feature_extraction.text import TfidfVectorizer
vectorizer = TfidfVectorizer(min_df=10)
text_tfidf = vectorizer.fit_transform(preprocessed_essays)
print("Shape of matrix after one hot encoding ",text_tfidf.shape)
```

1.5.2.3 Using Pretrained Models: Avg W2V

In []:

```
"""
# Reading glove vectors in python: https://stackoverflow.com/a/38230349/4084039
def loadGloveModel(gloveFile):
    print ("Loading Glove Model")
    f = open(gloveFile,'r', encoding="utf8")
    model = {}
    for line in tqdm(f):
        splitLine = line.split()
        word = splitLine[0]
        embedding = np.array([float(val) for val in splitLine[1:]])
        model[word] = embedding
    print ("Done.",len(model)," words loaded!")
    return model
```

```
model = loadGloveModel('glove.42B.300d.txt')
```

```
# =====
```

```
Output:
```

```
Loading Glove Model
```

```
1917495it [06:32, 4879.69it/s]
```

```
Done. 1917495 words loaded!
```

```
# =====
```

```
words = []
```

```
for i in preproc_texts:
```

```
    words.extend(i.split(' '))
```

```
for i in preproc_titles:
```

```
    words.extend(i.split(' '))
```

```
print("all the words in the coupus", len(words))
```

```
words = set(words)
```

```
print("the unique words in the coupus", len(words))
```

```
inter_words = set(model.keys()).intersection(words)
```

```
print("The number of words that are present in both glove vectors and our coupus", \
```

```
     len(inter_words), "(,np.round(len(inter_words)/len(words)*100,3),%)")
```

```
words_courpus = {}
```

```
words_glove = set(model.keys())
```

```
for i in words:
```

```
    if i in words_glove:
```

```
        words_courpus[i] = model[i]
```

```
print("word 2 vec length", len(words_courpus))
```

```
# stronging variables into pickle files python: http://www.jessicayung.com/how-to-use-pickle-to-save-and-load-variables-in-python/
```

```
import pickle
```

```
with open('glove_vectors', 'wb') as f:
```

```
    pickle.dump(words_courpus, f)
```

```
""
```

```
In [ ]:
```

```
# stronging variables into pickle files python: http://www.jessicayung.com/how-to-use-pickle-to-save-and-load-variables-in-python/
```

```
# make sure you have the glove_vectors file
```

```
with open('glove_vectors', 'rb') as f:
```

```
    model = pickle.load(f)
```

```
    glove_words = set(model.keys())
```

```
In [ ]:
```

```
# average Word2Vec
```

```
# compute average word2vec for each review.
```

```
avg_w2v_vectors = []; # the avg-w2v for each sentence/review is stored in this list
```

```
for sentence in tqdm(preprocessed_essays): # for each review/sentence
```

```
    vector = np.zeros(300) # as word vectors are of zero length
```

```
    cnt_words = 0; # num of words with a valid vector in the sentence/review
```

```
    for word in sentence.split(): # for each word in a review/sentence
```

```
        if word in glove_words:
```

```
            vector += model[word]
```

```
            cnt_words += 1
```

```
    if cnt_words != 0:
```

```
        vector /= cnt_words
```

```
    avg_w2v_vectors.append(vector)
```

```
print(len(avg_w2v_vectors))
```

```
print(len(avg_w2v_vectors[0]))
```

1.5.2.3 Using Pretrained Models: TFIDF weighted W2V

```
In [ ]:
```

```
# S = ["abc def pqr", "def def def abc", "pqr pqr def"]
```

```
tfidf_model = TfidfVectorizer()
```

```
tfidf_model.fit(preprocessed_essays)
```

```
# we are converting a dictionary with word as a key, and the idf as a value
```

```
dictionary = dict(zip(tfidf_model.get_feature_names(), list(tfidf_model.idf_)))
```

```
tfidf_words = set(tfidf_model.get_feature_names())
```

In []:

```
# average Word2Vec
# compute average word2vec for each review.
tfidf_w2v_vectors = [] # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(preprocessed_essays): # for each review/sentence
    vector = np.zeros(300) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in glove_words) and (word in tfidf_words):
            vec = model[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors.append(vector)

print(len(tfidf_w2v_vectors))
print(len(tfidf_w2v_vectors[0]))
```

In []:

```
# Similarly you can vectorize for title also
```

1.5.3 Vectorizing Numerical features

In []:

```
price_data = resource_data.groupby('id').agg({'price':'sum', 'quantity':'sum'}).reset_index()
project_data = pd.merge(project_data, price_data, on='id', how='left')
```

In []:

```
# check this one: https://www.youtube.com/watch?v=0HOqOcln3Z4&t=530s
# standardization sklearn: https://scikit-learn.org/stable/modules/generated/sklearn.preprocessing.StandardScaler.html
from sklearn.preprocessing import StandardScaler

# price_standardized = standardScalar.fit(project_data['price'].values)
# this will rise the error
# ValueError: Expected 2D array, got 1D array instead: array=[725.05 213.03 329. ... 399. 287.73 5.5].
# Reshape your data either using array.reshape(-1, 1)

price_scalar = StandardScaler()
price_scalar.fit(project_data['price'].values.reshape(-1,1)) # finding the mean and standard deviation of this data
print(f"Mean : {price_scalar.mean_[0]}, Standard deviation : {np.sqrt(price_scalar.var_[0])}")

# Now standardize the data with above mean and variance.
price_standardized = price_scalar.transform(project_data['price'].values.reshape(-1, 1))
```

In []:

```
price_standardized
```

1.5.4 Merging all the above features

- we need to merge all the numerical vectors i.e categorical, text, numerical vectors

In []:

```
print(categories_one_hot.shape)
print(sub_categories_one_hot.shape)
print(text_bow.shape)
print(price_standardized.shape)
```

In []:

```
# merge two sparse matrices: https://stackoverflow.com/a/19710648/4084039
```

```
from scipy.sparse import hstack
```

```
from scipy.sparse import hstack
# with the same hstack function we are concatenating a sparse matrix and a dense matrix :
X = hstack((categories_one_hot, sub_categories_one_hot, text_bow, price_standardized))
X.shape
```

Assignment 3: Apply KNN

1. [Task-1] Apply KNN(brute force version) on these feature sets

- Set 1: categorical, numerical features + project_title(BOW) + preprocessed_essay (BOW)
- Set 2: categorical, numerical features + project_title(TFIDF)+ preprocessed_essay (TFIDF)
- Set 3: categorical, numerical features + project_title(AVG W2V)+ preprocessed_essay (AVG W2V)
- Set 4: categorical, numerical features + project_title(TFIDF W2V)+ preprocessed_essay (TFIDF W2V)

2. Hyper parameter tuning to find best K

- Find the best hyper parameter which results in the maximum [AUC](#) value
- Find the best hyper parameter using k-fold cross validation (or) simple cross validation data
- Use gridsearch-cv or randomsearch-cv or write your own for loops to do this task

3. Representation of results

- You need to plot the performance of model both on train data and cross validation data for each hyper parameter, as shown in the figure
- Once you find the best hyper parameter, you need to train your model-M using the best hyper-param. Now, find the AUC on test data and plot the ROC curve on both train and test using model-M.
- Along with plotting ROC curve, you need to print the [confusion matrix](#) with predicted and original labels of test data points

4. [Task-2]

- Select top 2000 features from feature Set 2 using [`SelectKBest`](#) and then apply KNN on top of these features

```
from sklearn.datasets import load_digits
from sklearn.feature_selection import SelectKBest, chi2
X, y = load_digits(return_X_y=True)
X.shape
X_new = SelectKBest(chi2, k=20).fit_transform(X, y)
X_new.shape
=====
output:
(1797, 64)
(1797, 20)
```

- Repeat the steps 2 and 3 on the data matrix after feature selection

5. Conclusion

- You need to summarize the results at the end of the notebook, summarize it in the table format. To print out a table please refer to this prettytable library [link](#)

Note: Data Leakage

1. There will be an issue of data-leakage if you vectorize the entire data and then split it into train/cv/test.
2. To avoid the issue of data-leakage, make sure to split your data first and then vectorize it.
3. While vectorizing your data, apply the method `fit_transform()` on your train data, and apply the method `transform()` on cv/test data.
4. For more details please go through this [link](#).

2. K Nearest Neighbor

2.1 Splitting data into Train and cross validation(or test): Stratified Sampling

In []:

```
# please write all the code with proper documentation, and proper titles for each subsection
# go through documentations and blogs before you start coding
# first figure out what to do, and then think about how to do.
# reading and understanding error messages will be very much helpfull in debugging your code
```

// Reading and understanding error messages will be very much helpful in debugging your code
when you plot any graph make sure you use

- # a. Title, that describes your plot, this will be very helpful to the reader
- # b. Legends if needed
- # c. X-axis label
- # d. Y-axis label

In [202]:

```
# Preparing for Creating Data set which will have 50K records
```

```
df2 = df1.iloc[0:50000]
```

```
df3 = df2.drop(["project_is_approved"], axis=1)
```

```
df3.head()
```

Out[202]:

	clean_categories	clean_subcategories	school_state	project_grade_category	teacher_prefix	teacher_number_of_previously_posted_projects	quantity
0	Math_Science	AppliedSciences Health_LifeScience	CA	Grades PreK-2	Mrs.	53	4
1	SpecialNeeds	SpecialNeeds	UT	Grades 3-5	Ms.	4	8
2	Literacy_Language	Literacy	CA	Grades PreK-2	Mrs.	10	10
3	AppliedLearning	EarlyDevelopment	GA	Grades PreK-2	Mrs.	2	9
4	Literacy_Language	Literacy	WA	Grades 3-5	Mrs.	2	10

In [203]:

```
X = df3.values
```

In [204]:

```
df3.shape
```

Out[204]:

```
(50000, 10)
```

In [205]:

```
Y = df2["project_is_approved"].values
```

In [206]:

```
df2["project_is_approved"].value_counts()
```

Out[206]:

```
1 41993
```

```
0 8007
```

```
Name: project_is_approved, dtype: int64
```

In [207]:

```
# Performing Stratified sampling
```

```
from sklearn.model_selection import train_test_split
```

```
X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.3, stratify=Y)
```

```
X_train, X_cv, y_train, y_cv = train_test_split(X_train, y_train, test_size=0.3, stratify=y_train)
```

In [208]:

```
len(y_train)
```

Out[208]:

In [209]:

```
df_ytrain = pd.DataFrame(y_train)
df_ycv = pd.DataFrame(y_cv)
```

In [210]:

```
#Stratified Sampling
#when the data set is split the original ratio of 0s and 1s in class Say(here 80%,20%),after doing stratified sampling,the train set
#as well the test set will have the same ratio
print(df_ytrain[0].value_counts())
print("=**50")
print(df_ycv[0].value_counts())
```

```
1 20577
0 3923
Name: 0, dtype: int64
=====
1 8818
0 1682
Name: 0, dtype: int64
```

2.2 Make Data Model Ready: encoding numerical, categorical features

In [211]:

```
# please write all the code with proper documentation, and proper titles for each subsection
# go through documentations and blogs before you start coding
# first figure out what to do, and then think about how to do.
# reading and understanding error messages will be very much helpfull in debugging your code
# make sure you featurize train and test data separately

# when you plot any graph make sure you use
# a. Title, that describes your plot, this will be very helpful to the reader
# b. Legends if needed
# c. X-axis label
# d. Y-axis label
```

In [212]:

```
#Creating Dataframe to make data manipulations easier
X_train_df = pd.DataFrame(X_train, columns= ['clean_categories', 'clean_subcategories', 'school_state',
                                              'project_grade_category', 'teacher_prefix',
                                              'teacher_number_of_previously_posted_projects', 'quantity','price',
                                              'Preprocessed_Essay','Preprocessed_Project_Title'])
```

In [213]:

```
X_train_df.head()
```

Out[213]:

	clean_categories	clean_subcategories	school_state	project_grade_category	teacher_prefix	teacher_number_of_previously_posted_projects	quantity
0	History_Civics Math_Science	FinancialLiteracy Mathematics	AZ	Grades PreK-2	Ms.	4	38
1	Math_Science Health_Sports	EnvironmentalScience NutritionEducation	WA	Grades 9-12	Mrs.	5	10
2	AppliedLearning Literacy_Language	EarlyDevelopment Literacy	CO	Grades PreK-2	Mrs.	0	10
3	Math_Science SpecialNeeds	Mathematics SpecialNeeds	NE	Grades 3-5	Ms.	2	10
4	Math_Science Literacy_Language	AppliedSciences Literature_Writing	CA	Grades 3-5	Mrs.	0	10

In [214]:

```
## ONE HOT ENCODING Clean Categories
```

In [215]:

```
my_counter = Counter()
for word in X_train_df['clean_categories'].values:
    my_counter.update(word.split())
cat_dict = dict(my_counter)
sorted_cat_dict = dict(sorted(cat_dict.items(), key=lambda kv: kv[1]))
```

In [216]:

```
vectorizer = CountVectorizer(vocabulary=list(sorted_cat_dict.keys()), lowercase=False, binary=True)
vectorizer.fit(X_train_df['clean_categories'].values)
print(vectorizer.get_feature_names())
```

```
categories_one_hot = vectorizer.transform(X_train_df['clean_categories'].values)
print("Shape of matrix after one hot encoding ", categories_one_hot.shape)
```

```
['Warmth', 'Care_Hunger', 'History_Civics', 'Music_Arts', 'AppliedLearning', 'SpecialNeeds', 'Health_Sports', 'Math_Science', 'Literacy_Language']
Shape of matrix after one hot encoding (24500, 9)
```

In [217]:

```
## ONE HOT Encoding Clean Subcategories
```

In [218]:

```
my_counter2 = Counter()
for word in X_train_df['clean_subcategories'].values:
    my_counter2.update(word.split())
sub_cat_dict = dict(my_counter2)
sorted_sub_cat_dict = dict(sorted(sub_cat_dict.items(), key=lambda kv: kv[1]))
```

In [219]:

```
vectorizer2 = CountVectorizer(vocabulary=list(sub_cat_dict.keys()), lowercase=False, binary=True)
vectorizer2.fit(X_train_df['clean_subcategories'].values)
print(vectorizer2.get_feature_names())
```

```
subcategories_one_hot = vectorizer2.transform(X_train_df['clean_subcategories'].values)
print("Shape of matrix after one hot encoding ", subcategories_one_hot.shape)
```

```
['FinancialLiteracy', 'Mathematics', 'EnvironmentalScience', 'NutritionEducation', 'EarlyDevelopment', 'Literacy', 'SpecialNeeds', 'AppliedSciences', 'Literature_Writing', 'Health_LifeScience', 'Other', 'VisualArts', 'Health_Wellness', 'ForeignLanguages', 'PerformingArts', 'CharacterEducation', 'History_Geography', 'Gym_Fitness', 'TeamSports', 'College_CareerPrep', 'Extracurricular', 'Civics_Government', 'SocialSciences', 'ESL', 'Music', 'CommunityService', 'ParentInvolvement', 'Economics', 'Warmth', 'Care_Hunger']
Shape of matrix after one hot encoding (24500, 30)
```

In [220]:

```
## ONE hot Encoding School state
```

In [221]:

```
#One hot encoding categorical features
from collections import Counter
my_counter1 = Counter()
for word in X_train_df['school_state'].values:
    my_counter1.update(word.split())

state_dict = dict(my_counter1)
sorted_state_dict = dict(sorted(state_dict.items(), key=lambda kv: kv[1]))
```

In [222]:

```
vectorizer1 = CountVectorizer(vocabulary=list(sorted_state_dict.keys()), lowercase=False, binary=True)
```

```
vectorizer1.fit(X_train_df['school_state'].values)
print(vectorizer1.get_feature_names())
```

```
state_one_hot = vectorizer1.transform(X_train_df['school_state'].values)
print("Shape of matrix after one hot encoding ", state_one_hot.shape)
```

```
['WY', 'VT', 'ND', 'MT', 'RI', 'SD', 'NH', 'NE', 'AK', 'ME', 'DE', 'HI', 'WV', 'DC', 'NM', 'KS', 'IA', 'ID', 'MN', 'CO', 'AR', 'NV', 'KY', 'MS', 'OR', 'CT', 'AL', 'MD', 'NJ', 'TN', 'WI', 'VA', 'AZ', 'UT', 'MA', 'WA', 'OK', 'OH', 'LA', 'IN', 'MO', 'MI', 'PA', 'SC', 'IL', 'GA', 'NC', 'NY', 'FL', 'TX', 'CA']
Shape of matrix after one hot encoding (24500, 51)
```

In [223]:

```
## One Hot Encoding-Project Grade Category
```

In [224]:

```
my_counter3 = Counter()
for word in X_train_df['project_grade_category'].values:
    word = word.replace(" ", "")
    word = word.replace('`', 'to')
    my_counter3.update(word.split(" ", 0))

grade_dict = dict(my_counter3)
sorted_grade_dict = dict(sorted(grade_dict.items(), key=lambda kv: kv[1]))
```

In [225]:

```
vectorizer3 = CountVectorizer(vocabulary=list(sorted_grade_dict.keys()), lowercase=False, binary=True)
vectorizer3.fit(X_train_df['project_grade_category'].values)
print(vectorizer3.get_feature_names())
```

```
grade_one_hot = vectorizer3.transform(X_train_df['project_grade_category'].values)
print("Shape of matrix after one hot encoding ", grade_one_hot.shape)
```

```
['Grades9to12', 'Grades6to8', 'Grades3to5', 'GradesPreKto2']
```

```
Shape of matrix after one hot encoding (24500, 4)
```

In [226]:

```
## One Hot Encoding-Teacher Prefix
```

In [227]:

```
X_train_df.teacher_prefix.unique()
```

Out[227]:

```
array(['Ms.', 'Mrs.', 'Teacher', 'Mr.', 'Dr.', nan], dtype=object)
```

In [228]:

```
X_train_df['teacher_prefix'] = X_train_df['teacher_prefix'].fillna("No_Value")
```

In [229]:

```
my_counter4 = Counter()
for word in X_train_df['teacher_prefix'].values:
    word = word.replace('`', '')
    my_counter4.update(word.split())

teacher_dict = dict(my_counter4)
sorted_teacher_dict = dict(sorted(teacher_dict.items(), key=lambda kv: kv[1]))
```

In [230]:

```
vectorizer4 = CountVectorizer(vocabulary=list(sorted_teacher_dict.keys()), lowercase=False, binary=True)
vectorizer4.fit(X_train_df['teacher_prefix'].values)
print(vectorizer4.get_feature_names())
```

```
teacher_one_hot = vectorizer4.transform(X_train_df['teacher_prefix'].values)
```

```
teacher_one_hot = Vectorizer.fit_transform(X_train_df[teacher_prefix].values)
print("Shape of matrix after one hot encodig ",teacher_one_hot.shape)
```

[No_Value', 'Dr', 'Teacher', 'Mr', 'Ms', 'Mrs']
Shape of matrix after one hot encodig (24500, 6)

In [231]:

```
#Checking for NAN values
#https://stackoverflow.com/questions/26266362/how-to-count-the-nan-values-in-a-column-in-pandas-dataframe/36710126
X_train_df.isnull().sum()
```

Out[231]:

```
clean_categories          0
clean_subcategories       0
school_state              0
project_grade_category    0
teacher_prefix             0
teacher_number_of_previously_posted_projects  0
quantity                  0
price                     0
Preprocessed_Essay        0
Preprocessed_Project_Title 0
dtype: int64
```

In [232]:

```
X_train_df['price'].head()
```

Out[232]:

```
0    58.97
1   432.08
2   399.46
3   397.36
4    229
Name: price, dtype: object
```

In [233]:

```
#Normalizing numerical features
from sklearn import preprocessing
normalized_qty_Xtrain = preprocessing.normalize(X_train_df['quantity'].values.reshape(-1, 1))
normalized_price_Xtrain = preprocessing.normalize(X_train_df['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1))
normalized_teacherspost_Xtrain = preprocessing.normalize(X_train_df['price'].values.reshape(-1, 1))
```

2.3 Make Data Model Ready: encoding eassay, and project_title

In [234]:

```
# please write all the code with proper documentation, and proper titles for each subsection
# go through documentations and blogs before you start coding
# first figure out what to do, and then think about how to do.
# reading and understanding error messages will be very much helpfull in debugging your code
# make sure you featurize train and test data separately
```

```
# when you plot any graph make sure you use
# a. Title, that describes your plot, this will be very helpful to the reader
# b. Legends if needed
# c. X-axis label
# d. Y-axis label
```

In [235]:

```
#BOW vectorizing Preprocessed Essay
vectorizer_bow = CountVectorizer(min_df=10)
vectorizer_bow.fit(X_train_df['Preprocessed_Essay'].values)
text_bow = vectorizer_bow.transform(X_train_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encodig ",text_bow.shape)
```

Shape of matrix after one hot encodig (24500, 9052)

In [236]:

In [236]:

```
#BOW vectorizing Preprocessed Project Title
vectorizer_bowtit = CountVectorizer(min_df=10)
text_bow1 = vectorizer_bowtit.fit_transform(X_train_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encodig ",text_bow1.shape)
```

Shape of matrix after one hot encodig (24500, 1281)

2.4.1 Applying KNN brute force on BOW, SET 1

In [237]:

```
# Please write all the code with proper documentation
```

In [238]:

```
from scipy.sparse import hstack
# with the same hstack function we are concatenating a sparse matrix and a dense matirx :
Set1 = hstack((categories_one_hot,subcategories_one_hot,state_one_hot,grade_one_hot,teacher_one_hot,normalized_price_Xtrain,normalized_teacherspost_Xtrain,normalized_qty_Xtrain,text_bow,text_bow1))
```

In [239]:

```
# making Cross validation set ready
X_cv_df = pd.DataFrame(X_cv, columns= ['clean_categories', 'clean_subcategories', 'school_state',
                                         'project_grade_category', 'teacher_prefix',
                                         'teacher_number_of_previously_posted_projects', 'quantity','price',
                                         'Preprocessed_Essay','Preprocessed_Project_Title'])
```

In [240]:

```
categories_one_hot_Xcv = vectorizer.transform(X_cv_df['clean_categories'].values)
print("Shape of matrix after one hot encodig ",categories_one_hot_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 9)

In [241]:

```
subcategories_one_hot_Xcv = vectorizer2.transform(X_cv_df['clean_subcategories'].values)
print("Shape of matrix after one hot encodig ",subcategories_one_hot_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 30)

In [242]:

```
state_one_hot_Xcv = vectorizer1.transform(X_cv_df['school_state'].values)
print("Shape of matrix after one hot encodig ",state_one_hot_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 51)

In [243]:

```
grade_one_hot_Xcv = vectorizer3.transform(X_cv_df['project_grade_category'].values)
print("Shape of matrix after one hot encodig ",grade_one_hot_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 4)

In [244]:

```
X_cv_df['teacher_prefix'] = X_cv_df['teacher_prefix'].fillna("No_Value")
```

In [245]:

```
teacher_one_hot_Xcv = vectorizer4.transform(X_cv_df['teacher_prefix'].values)
print("Shape of matrix after one hot encodig ",teacher_one_hot_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 6)

In [246]:

```
normalized_qty_Xcv = preprocessing.normalize(X_cv_df['quantity'].values.reshape(-1, 1))
normalized_price_Xcv = preprocessing.normalize(X_cv_df['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1))
normalized_teacherspost_Xcv = preprocessing.normalize(X_cv_df['price'].values.reshape(-1, 1))
```

In [247]:

```
text_bow_Xcv = vectorizer_bow.transform(X_cv_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encodig ",text_bow_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 9052)

In [248]:

```
text_bow1_Xcv = vectorizer_bowit.transform(X_cv_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encodig ",text_bow1_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 1281)

In [249]:

```
Set1_Xcv = hstack((categories_one_hot_Xcv,subcategories_one_hot_Xcv,state_one_hot_Xcv,grade_one_hot_Xcv,teacher_one_hot_Xcv,normalized_price_Xcv,normalized_teacherspost_Xcv,normalized_qty_Xcv,text_bow_Xcv,text_bow1_Xcv))
Set1_Xtrain = Set1
```

In [250]:

```
#Test dataset ready
X_test_df = pd.DataFrame(X_test, columns= ['clean_categories', 'clean_subcategories', 'school_state',
 'project_grade_category', 'teacher_prefix',
 'teacher_number_of_previously_posted_projects', 'quantity','price',
 'Preprocessed_Essay','Preprocessed_Project_Title'])
```

In [251]:

```
categories_one_hot_Xtest = vectorizer.transform(X_test_df['clean_categories'].values)
print("Shape of matrix after one hot encodig ",categories_one_hot_Xtest.shape)
```

```
subcategories_one_hot_Xtest = vectorizer2.transform(X_test_df['clean_subcategories'].values)
print("Shape of matrix after one hot encodig ",subcategories_one_hot_Xtest.shape)
```

```
state_one_hot_Xtest = vectorizer1.transform(X_test_df['school_state'].values)
print("Shape of matrix after one hot encodig ",state_one_hot_Xtest.shape)
```

```
grade_one_hot_Xtest = vectorizer3.transform(X_test_df['project_grade_category'].values)
print("Shape of matrix after one hot encodig ",grade_one_hot_Xtest.shape)
```

Shape of matrix after one hot encodig (15000, 9)

Shape of matrix after one hot encodig (15000, 30)

Shape of matrix after one hot encodig (15000, 51)

Shape of matrix after one hot encodig (15000, 4)

In [252]:

```
X_test_df['teacher_prefix'] = X_test_df['teacher_prefix'].fillna("No_Value")
```

In [253]:

```
teacher_one_hot_Xtest = vectorizer4.transform(X_test_df['teacher_prefix'].values)
print("Shape of matrix after one hot encodig ",teacher_one_hot_Xtest.shape)
```

Shape of matrix after one hot encodig (15000, 6)

In [254]:

```
normalized_qty_Xtest = preprocessing.normalize(X_test_df['quantity'].values.reshape(-1, 1))
normalized_price_Xtest = preprocessing.normalize(X_test_df['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1))
```

```
normalized_teacherspost_Xtest = preprocessing.normalize(X_test_df['price'].values.reshape(-1, 1))
```

In [255]:

```
text_bow_Xtest = vectorizer_bow.transform(X_test_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encoding ",text_bow_Xtest.shape)
```

```
text_bow1_Xtest = vectorizer_bowit.transform(X_test_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encoding ",text_bow1_Xtest.shape)
```

Shape of matrix after one hot encoding (15000, 9052)
Shape of matrix after one hot encoding (15000, 1281)

In [256]:

```
Set1_Xtest = hstack((categories_one_hot_Xtest,subcategories_one_hot_Xtest,state_one_hot_Xtest,grade_one_hot_Xtest,teacher_one_hot_Xtest
,normalized_price_Xtest,normalized_teacherspost_Xtest,normalized_qty_Xtest,text_bow_Xtest,text_bow1_Xtest))
```

In [257]:

```
#Checking for NAs
X_test_df.isnull().sum()
```

Out[257]:

```
clean_categories          0
clean_subcategories        0
school_state               0
project_grade_category     0
teacher_prefix              0
teacher_number_of_previously_posted_projects  0
quantity                      0
price                          0
Preprocessed_Essay           0
Preprocessed_Project_Title    0
dtype: int64
```

In [258]:

```
#Sampled data after preprocess
X_train_new = Set1_Xtrain.toarray()
X_cv_new = Set1_Xcv.toarray()
X_test_new = Set1_Xtest.toarray()
```

In [259]:

```
print(X_train_new.shape)
print(X_cv_new.shape)
print(X_test_new.shape)
```

(24500, 10436)
(10500, 10436)
(15000, 10436)

In [152]:

```
##Training to get value of K
```

In [260]:

```
def batch_predict(clf, data):
    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
    # not the predicted outputs

    y_data_pred = []
    tr_loop = data.shape[0] - data.shape[0] % 1000
    # consider you X_tr shape is 49041, then your tr_loop will be 49041 - 49041%1000 = 49000
    # in this for loop we will iterate until the last 1000 multiplier
    for i in range(0, tr_loop, 1000):
        y_data_pred.extend(clf.predict_proba(data[i:i+1000])[:,1])
    # we will be predicting for the last data points
    if data.shape[0] % 1000 != 0:
        y_data_pred.extend(clf.predict_proba(data[tr_loop:])[:,1])
```

```
y_data_pred
```

In [261]:

```
#Training to find best value of K for Model using BOW
import matplotlib.pyplot as plt
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import roc_auc_score
"""

y_true : array, shape = [n_samples] or [n_samples, n_classes]
True binary labels or binary label indicators.

y_score : array, shape = [n_samples] or [n_samples, n_classes]
Target scores, can either be probability estimates of the positive class, confidence values, or non-thresholded measure of decisions (as returned by "decision_function" on some classifiers).
For binary y_true, y_score is supposed to be the score of the class with greater label.

"""

train_auc = []
cv_auc = []
K = [3, 15, 25, 51, 101]
for i in tqdm(K):
    neigh = KNeighborsClassifier(n_neighbors=i, algorithm='brute', n_jobs=-1)
    neigh.fit(X_train_new, y_train)

    y_train_pred = batch_predict(neigh, X_train_new)
    y_cv_pred = batch_predict(neigh, X_cv_new)

    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
    # not the predicted outputs
    train_auc.append(roc_auc_score(y_train, y_train_pred))
    cv_auc.append(roc_auc_score(y_cv, y_cv_pred))

plt.plot(K, train_auc, label='Train AUC')
plt.plot(K, cv_auc, label='CV AUC')

plt.scatter(K, train_auc, label='Train AUC points')
plt.scatter(K, cv_auc, label='CV AUC points')

plt.legend()
plt.xlabel("K: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```

0%

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

20%

| 1/5 [32:18<2:09:14, 1938.63s/it]

40%

| 2/5 [1:01:27<1:34:04, 1881.54s/it]

60%

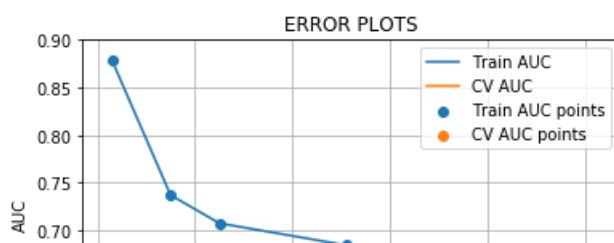
| 3/5 [1:25:02<58:03, 1741.79s/it]

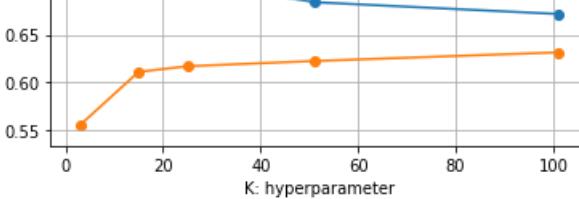
80%| 1618.17s/it]

| 4/5 [1:47:12<26:58,

100%| 5 [2:10:23<00:00, 1550.04s/it]

| 5/





In [262]:

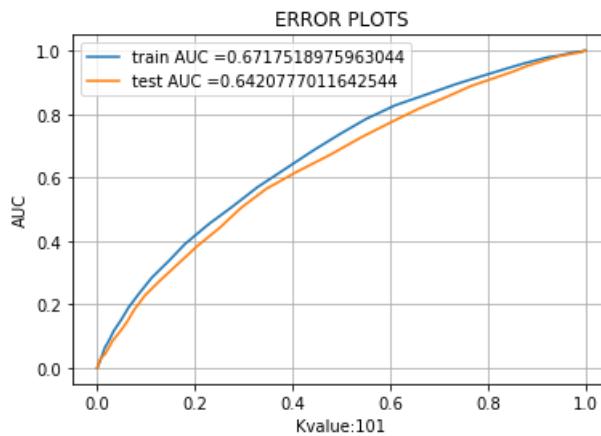
```
# Selecting the Value of Hyperparameter K as 101 since it provides the min difference in Train Auc And Cross Val AUC.
#Also during majority voting picking odd value of K gives clear winner in selecting class label
from sklearn.metrics import roc_curve, auc

neigh1 = KNeighborsClassifier(n_neighbors=101, algorithm='brute', n_jobs=-1)
neigh1.fit(X_train_new, y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
# not the predicted outputs

y_train_pred1 = batch_predict(neigh1, X_train_new)
y_test_pred1 = batch_predict(neigh1, X_test_new)

train_fpr1, train_tpr1, tr_thresholds1 = roc_curve(y_train, y_train_pred1)
test_fpr1, test_tpr1, te_thresholds1 = roc_curve(y_test, y_test_pred1)

plt.plot(train_fpr1, train_tpr1, label="train AUC =" + str(auc(train_fpr1, train_tpr1)))
plt.plot(test_fpr1, test_tpr1, label="test AUC =" + str(auc(test_fpr1, test_tpr1)))
plt.legend()
plt.xlabel("Kvalue:101")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```



In [264]:

```
# we are writing our own function for predict, with defined threshold
# we will pick a threshold that will give the least fpr
def find_best_threshold(threshold, fpr, tpr):
    t = threshold[np.argmax(tpr*(1-fpr))]
    # (tpr*(1-fpr)) will be maximum if your fpr is very low and tpr is very high
    print("the maximum value of tpr*(1-fpr)", max(tpr*(1-fpr)), "for threshold", np.round(t,3))
    return t

def predict_with_best_t(proba, threshold):
    predictions = []
    for i in proba:
        if i >= threshold:
            predictions.append(1)
        else:
            predictions.append(0)
    return predictions
```

In [271]:

```
print("*" * 100)
from sklearn.metrics import confusion_matrix
best_t = find_best_threshold(tr_thresholds1, train_fpr1, train_tpr1)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train, best_t)))
```

```
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred1, best_t)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred1, best_t)))
```

```
=====  
the maximum value of tpr*(1-fpr) 0.3855981544721306 for threshold 0.772
```

Train confusion matrix

```
[[ 2412 1511]  
 [ 7672 12905]]
```

Test confusion matrix

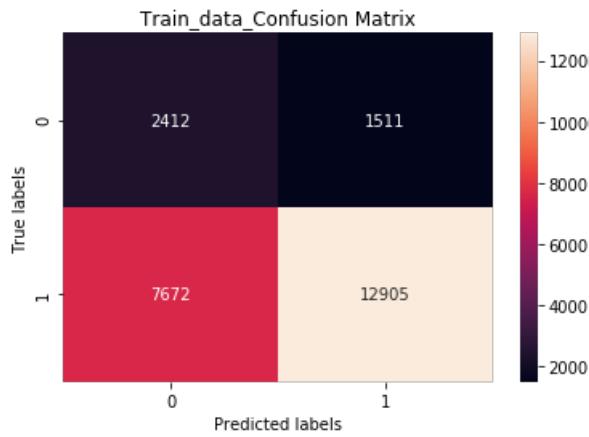
```
[[1423 979]  
 [4824 7774]]
```

In [284]:

```
cm_train = confusion_matrix(y_train, predict_with_best_t(y_train_pred1, best_t))  
cm_test = confusion_matrix(y_test, predict_with_best_t(y_test_pred1, best_t))
```

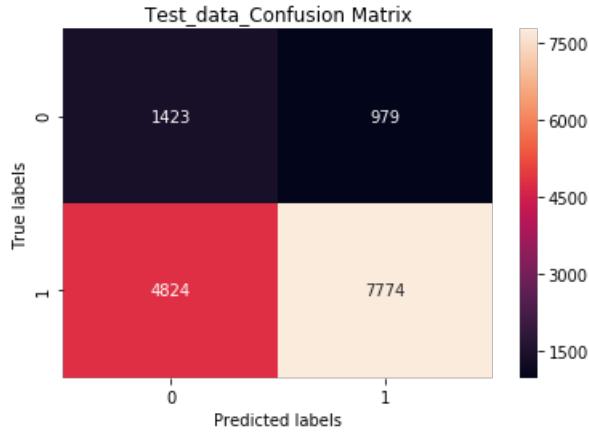
In [344]:

```
##Plotting using seaborn heatmap for train and Test dat confusion matrix  
#https://stackoverflow.com/questions/19233771/sklearn-plot-confusion-matrix-with-labels  
import seaborn as sns  
import matplotlib.pyplot as plt  
  
ax= plt.subplot()  
sns.heatmap(cm_train, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells  
  
# labels, title and ticks  
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');  
ax.set_title('Train_data_Confusion Matrix');  
#ax.xaxis.set_ticklabels(['Project Rejected', 'Project Approved']); ax.yaxis.set_ticklabels(['Project Rejected', 'Project Approved']);
```



In [343]:

```
#Seaborn heatmap for test data confusion matrix  
ax= plt.subplot()  
sns.heatmap(cm_test, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells  
  
# labels, title and ticks  
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');  
ax.set_title('Test_data_Confusion Matrix');
```



2.4.2 Applying KNN brute force on TFIDF, SET 2

In []:

```
# Please write all the code with proper documentation
```

In [275]:

```
from sklearn.feature_extraction.text import TfidfVectorizer
vectorizer_tfidf = TfidfVectorizer(min_df=10)
vectorizer_tfidf.fit(X_train_df['Preprocessed_Essay'].values)
text_tfidf = vectorizer_tfidf.transform(X_train_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encodig ",text_tfidf.shape)
```

Shape of matrix after one hot encodig (24500, 9052)

In [276]:

```
vectorizer_tfidf1 = TfidfVectorizer(min_df=10)
vectorizer_tfidf1.fit(X_train_df['Preprocessed_Project_Title'].values)
text_tfidf1 = vectorizer_tfidf1.transform(X_train_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encodig ",text_tfidf1.shape)
```

Shape of matrix after one hot encodig (24500, 1281)

In [277]:

```
#Xcv
text_tfidf_Xcv = vectorizer_tfidf.transform(X_cv_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encodig ",text_tfidf_Xcv.shape)

text_tfidf1_Xcv = vectorizer_tfidf1.transform(X_cv_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encodig ",text_tfidf1_Xcv.shape)
```

Shape of matrix after one hot encodig (10500, 9052)

Shape of matrix after one hot encodig (10500, 1281)

In [278]:

```
#XTest
text_tfidf_Xtest = vectorizer_tfidf.transform(X_test_df['Preprocessed_Essay'].values)
print("Shape of matrix after one hot encodig ",text_tfidf_Xtest.shape)

text_tfidf1_Xtest = vectorizer_tfidf1.transform(X_test_df['Preprocessed_Project_Title'].values)
print("Shape of matrix after one hot encodig ",text_tfidf1_Xtest.shape)
```

Shape of matrix after one hot encodig (15000, 9052)

Shape of matrix after one hot encodig (15000, 1281)

In [279]:

```
Set1_tfidf_Xtrain = hstack((categories_one_hot,subcategories_one_hot,state_one_hot,grade_one_hot,teacher_one_hot,normalized_price_Xtrain,
normalized_teacherspost_Xtrain,normalized_qty_Xtrain,text_tfidf,text_tfidf1))
Set1_tfidf_Xcv = hstack((categories_one_hot_Xcv,subcategories_one_hot_Xcv,state_one_hot_Xcv,grade_one_hot_Xcv,teacher_one_hot_Xcv,no
rmalized_price_Xcv,normalized_teacherspost_Xcv,normalized_qty_Xcv,text_tfidf_Xcv,text_tfidf1_Xcv))
Set1_tfidf_Xtest = hstack((categories_one_hot_Xtest,subcategories_one_hot_Xtest,state_one_hot_Xtest,grade_one_hot_Xtest,teacher_one_hot_
Xtest,normalized_price_Xtest,normalized_teacherspost_Xtest,normalized_qty_Xtest,text_tfidf_Xtest,text_tfidf1_Xtest))
```

In [280]:

```
X_train_tfidf_new = Set1_tfidf_Xtrain.toarray()
X_cv_tfidf_new = Set1_tfidf_Xcv.toarray()
X_test_tfidf_new = Set1_tfidf_Xtest.toarray()
```

In [185]:

```
#Training to find best value of K for TFIDF model
```

In [281]:

```

train3_auc = []
cv3_auc = []
K3 = [3, 15, 25, 51, 101]
for i in tqdm(K3):
    neigh3 = KNeighborsClassifier(n_neighbors=i, algorithm='brute', n_jobs=-1)
    neigh3.fit(X_train_tfidf_new, y_train)

    y_train_pred = batch_predict(neigh3, X_train_tfidf_new)
    y_cv_pred = batch_predict(neigh3, X_cv_tfidf_new)

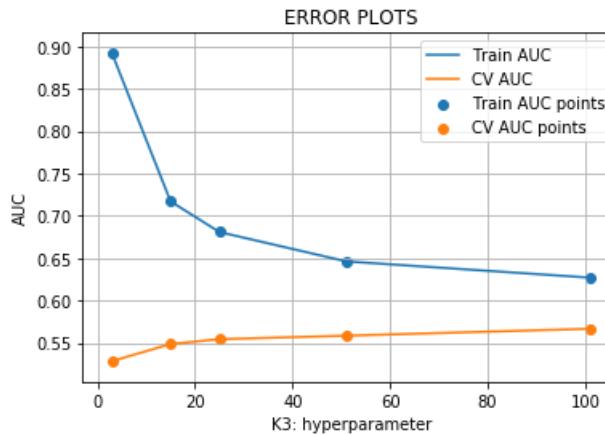
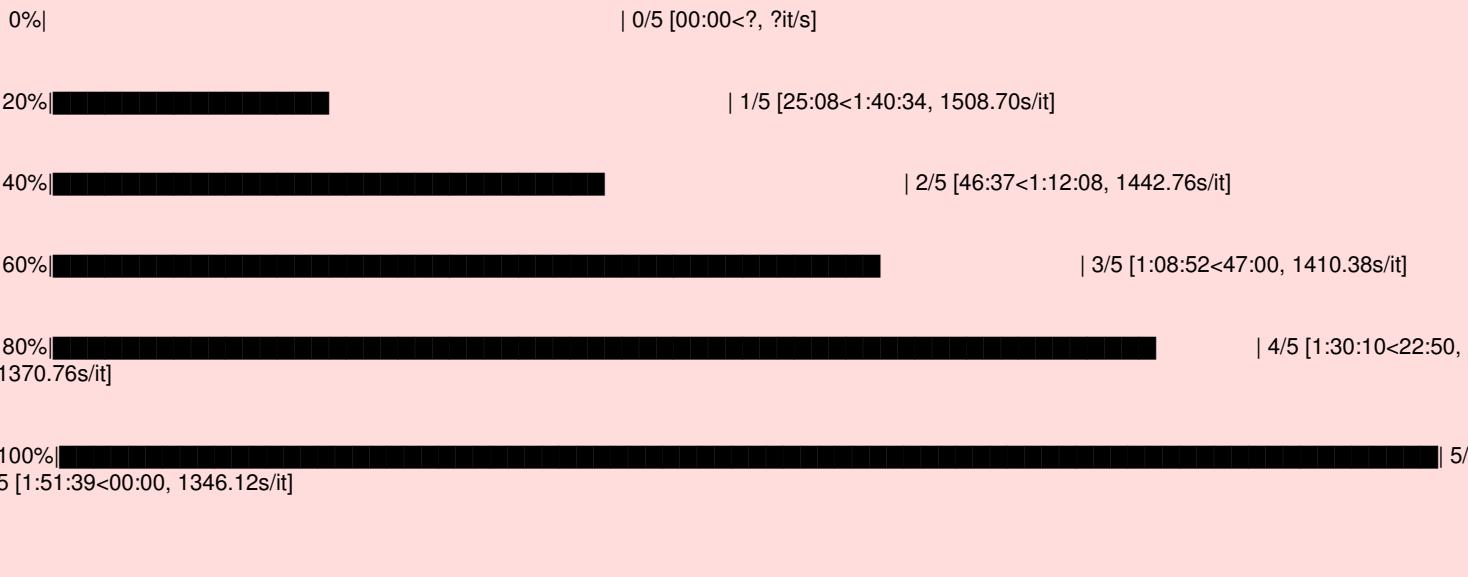
    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
    # not the predicted outputs
    train3_auc.append(roc_auc_score(y_train, y_train_pred))
    cv3_auc.append(roc_auc_score(y_cv, y_cv_pred))

plt.plot(K3, train3_auc, label='Train AUC')
plt.plot(K3, cv3_auc, label='CV AUC')

plt.scatter(K3, train3_auc, label='Train AUC points')
plt.scatter(K3, cv3_auc, label='CV AUC points')

plt.legend()
plt.xlabel("K3: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()

```



In [282]:

```

# Selecting the Value of Hyperparameter K3 as 101 since it provides the min difference in Train Auc And Cross Val AUC.
# Also during majority voting picking odd value of K gives clear winner in selecting class label
from sklearn.metrics import roc_curve, auc

```

```

neigh4 = KNeighborsClassifier(n_neighbors=101, algorithm='brute', n_jobs=-1)
neigh4.fit(X_train_tfidf_new, y_train)

# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
# not the predicted outputs

```

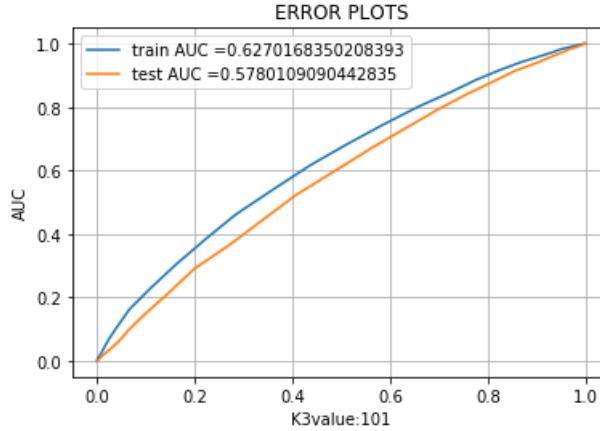
```

y_train_pred4 = batch_predict(neigh4, X_train_tfidf_new)
y_test_pred4 = batch_predict(neigh4, X_test_tfidf_new)

train_fpr4, train_tpr4, tr_thresholds4 = roc_curve(y_train, y_train_pred4)
test_fpr4, test_tpr4, te_thresholds4 = roc_curve(y_test, y_test_pred4)

plt.plot(train_fpr4, train_tpr4, label="train AUC =" + str(auc(train_fpr4, train_tpr4)))
plt.plot(test_fpr4, test_tpr4, label="test AUC =" + str(auc(test_fpr4, test_tpr4)))
plt.legend()
plt.xlabel("K3value:101")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()

```



In [283]:

```

print("*100)
from sklearn.metrics import confusion_matrix
best_t1 = find_best_threshold(tr_thresholds4, train_fpr4, train_tpr4)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred4, best_t1)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred4, best_t1)))

```

```

=====
the maximum value of tpr*(1-fpr) 0.34758902080781334 for threshold 0.842
Train confusion matrix
[[ 2213 1710]
 [ 7898 12679]]
Test confusion matrix
[[1224 1178]
 [5010 7588]]

```

In [287]:

```

cm_tfidf_train = confusion_matrix(y_train, predict_with_best_t(y_train_pred4, best_t1))
cm_tfidf_test = confusion_matrix(y_test, predict_with_best_t(y_test_pred4, best_t1))

```

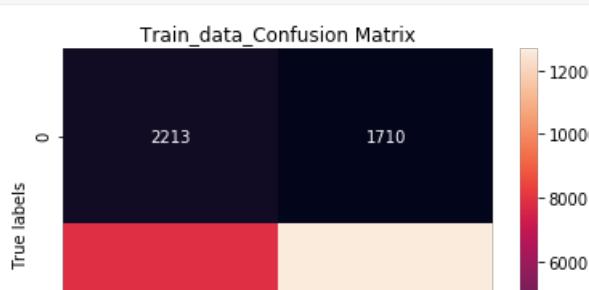
In [288]:

```

#Sea born heat map train confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf_train, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Train_data_Confusion Matrix');
#

```

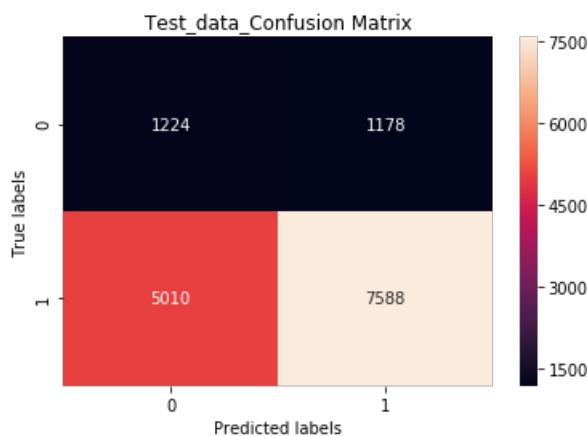




In [342]:

```
#Sea born heat map test confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf_test, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Test_data_Confusion Matrix');
#
```



2.4.3 Applying KNN brute force on AVG W2V, SET 3

In []:

```
# Please write all the code with proper documentation
```

In [290]:

```
i=0
list_of_sentance_train=[]
for sentance in (X_train_df['Preprocessed_Project_Title'].values):
    list_of_sentance_train.append(sentance.split())

from gensim.models import Word2Vec
from gensim.models import KeyedVectors

w2v_model=Word2Vec(list_of_sentance_train,min_count=5,size=50, workers=4)

w2v_words = list(w2v_model.wv.vocab)
print("number of words that occurred minimum 5 times ",len(w2v_words))
print("sample words ", w2v_words[0:50])
```

number of words that occurred minimum 5 times 2198

sample words ['financial', 'literacy', '2nd', 'grade', 'let', 'grow', 'something', 'good', 'if', 'child', 'safe', 'they', 'take', 'mad', 'about', 'math', 'terrific', 'technolo gy', 'd', '5', 'flexible', 'seating', 'extra', 'fun', 'learning', 'pre', 'k', 'living', 'science', 'creating', 'wonderful', 'stories', 'classroom', 'environment', 'creativity', 'wi ggle', 'wobble', 'now', 'concentrate', 'daily', 'differentiated', 'instruction', 'means', 'thinking', '2016', '2017', 'reading', 'great', 'google', 'active']

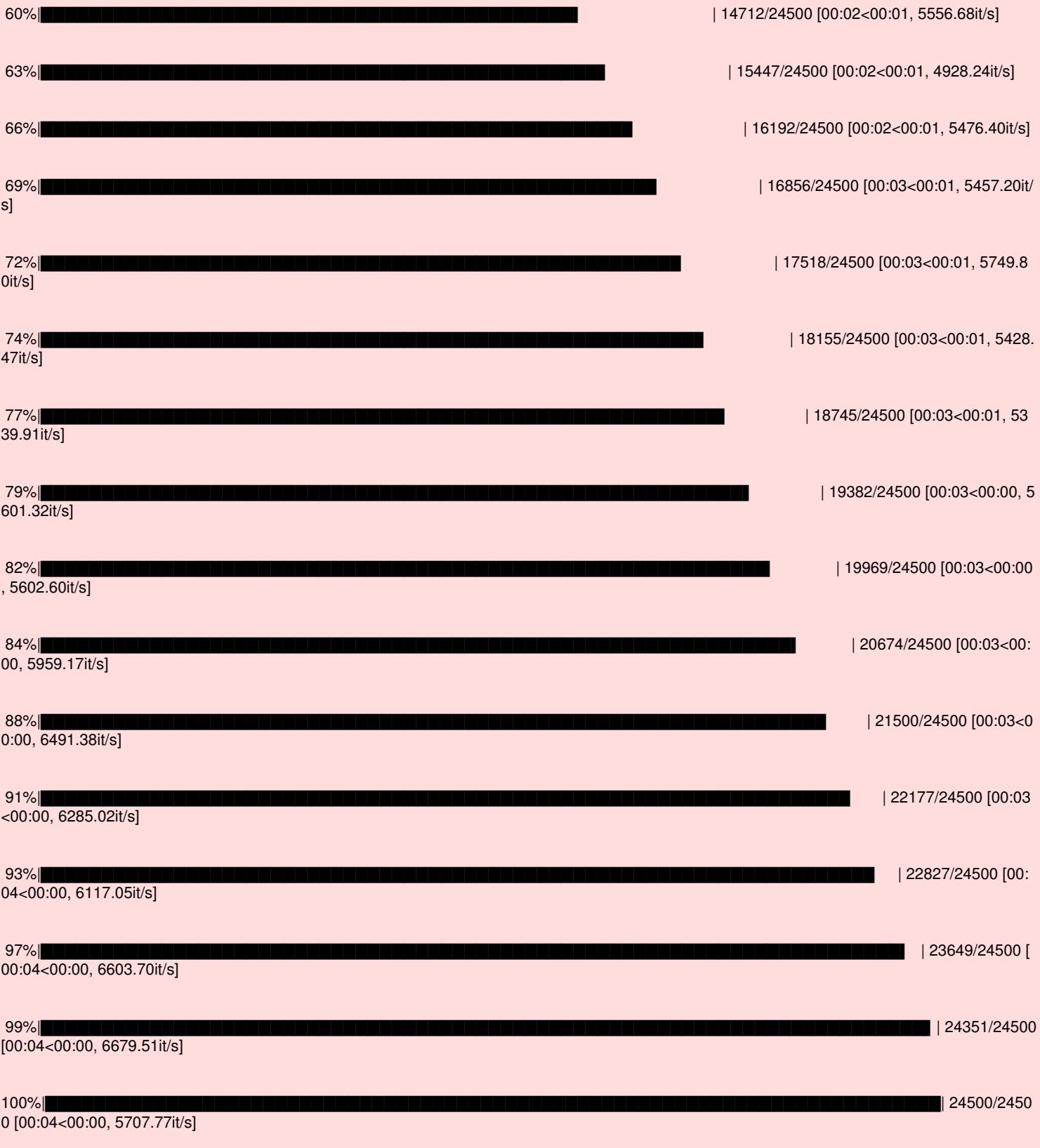
In [291]:

```
from tqdm import tqdm
import numpy as np

sent_vectors_train = []; # the avg-w2v for each sentence/review is stored in this list
for sent in tqdm(list_of_sentance_train): # for each review/sentence
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words = 0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words:
            vec = w2v_model.wv[word]
            sent_vec += vec
            cnt_words += 1
    if cnt_words != 0:
        sent_vec /= cnt_words
    sent_vectors_train.append(sent_vec)
```

```
cnt_words += 1
if cnt_words != 0:
    sent_vec /= cnt_words
sent_vectors_train.append(sent_vec)
sent_vectors_train = np.array(sent_vectors_train)
print(sent_vectors_train.shape)
print(sent_vectors_train[0])
```





(24500, 50)
[0.07291705 0.38856527 -0.5150852 0.3512383 -0.14275816 -0.14898676
-0.12409286 -0.58850976 -0.34082318 -0.18492777 -0.03172963 0.2925306
-0.07250076 -0.01237471 -0.4952029 -0.39667624 0.54612001 0.17331808
-0.20691124 -0.47874217 0.12461267 -0.01477686 0.25452888 0.46026882
-0.03232901 -0.45941025 0.70808939 0.10126302 0.14996965 -0.13896013
-0.50612598 0.2364805 -0.45257414 -0.2555261 -0.09869759 0.59407496
-0.16603715 0.16259591 -0.18502868 -0.36728679 -0.3579613 -0.31693857
0.15817988 0.29209913 0.03368362 0.40012747 -0.37606266 -0.44307293
0.10383068 0.20151646]

In [292]:

```
#Xcv
i=0
list_of_sentance_cv=[]
for sentance in (X_cv_df['Preprocessed_Project_Title'].values):
    list_of_sentance_cv.append(sentance.split())

sent_vectors_cv = [] # the avg-w2v for each sentence/review is stored in this list
for sent in tdm(list_of_sentance_cv): # for each review/sentence
```

```

for sent in tqdm(list_of_sentence_cv): # for each review/sentence
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words = 0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words:
            vec = w2v_model.wv[word]
            sent_vec += vec
            cnt_words += 1
    if cnt_words != 0:
        sent_vec /= cnt_words
    sent_vectors_cv.append(sent_vec)
sent_vectors_cv = np.array(sent_vectors_cv)
print(sent_vectors_cv.shape)
print(sent_vectors_cv[0])

```

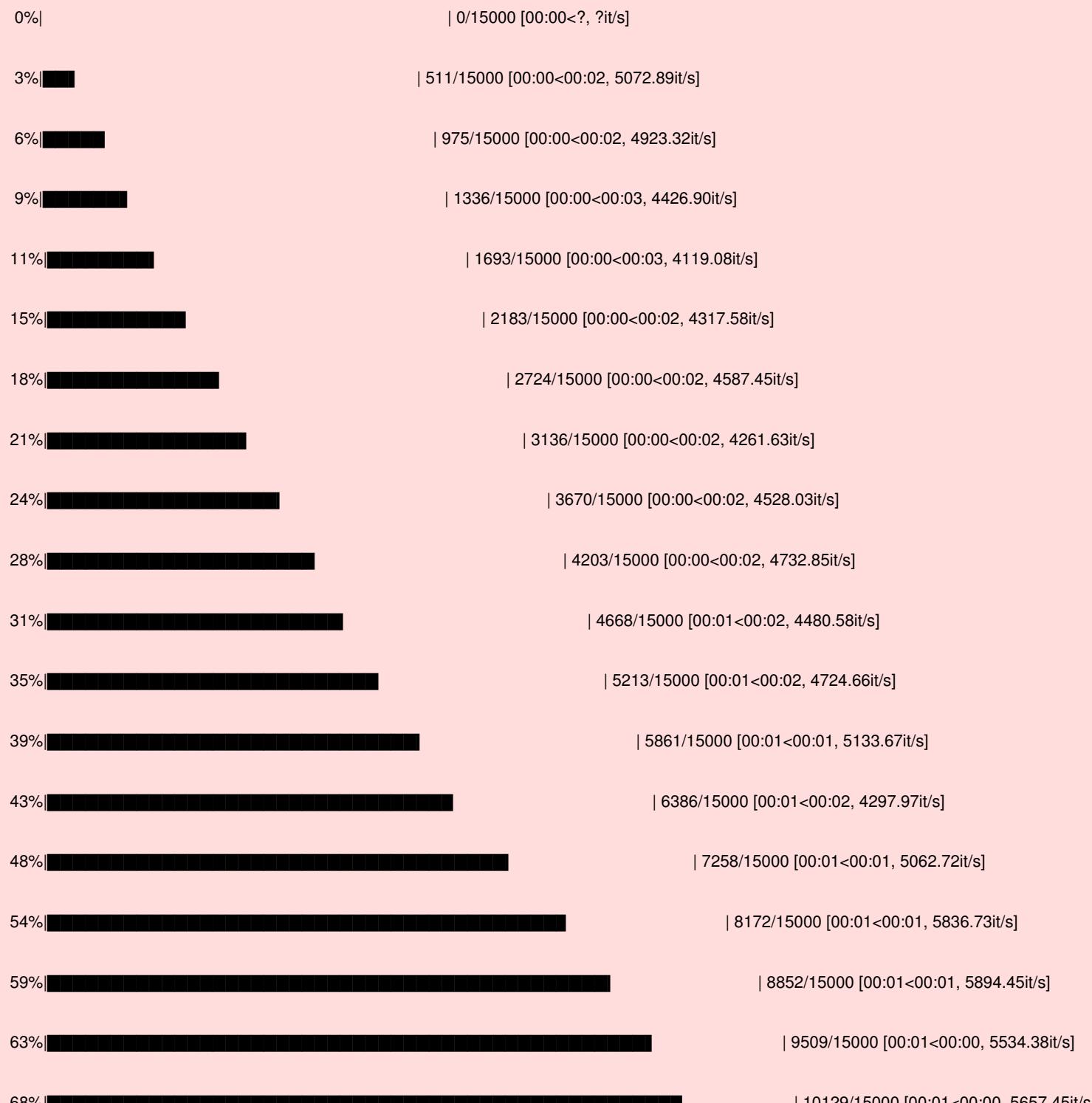


(10500, 50)
[0.15159845 0.25281205 -0.42035589 0.29673826 -0.18894661 -0.0835521
-0.12742288 -0.58303464 -0.17547585 -0.10219762 -0.01277991 0.31108303
-0.01681243 0.01316655 -0.43682813 -0.31424369 0.44227571 0.11899393
-0.01151724 -0.41540212 0.02392045 0.00721264 0.20074628 0.44915762
-0.04000302 -0.47463258 0.53786835 0.13553908 0.22597945 0.00624912
-0.3241316 0.25460433 -0.2737604 -0.23905299 -0.04891459 0.51476125
-0.06032137 0.22849066 -0.19808661 -0.39097734 -0.25409559 -0.26065837
-0.11773588 0.24779416 -0.07491383 0.27718218 -0.31327187 -0.33612006
0.03023235 0.20593448]

In [293]:

```
i=0
list_of_sentance_test=[]
for sentance in (X_test_df['Preprocessed_Project_Title'].values):
    list_of_sentance_test.append(sentance.split())

sent_vectors_test = [] # the avg-w2v for each sentence/review is stored in this list
for sent in tqdm(list_of_sentance_test): # for each review/sentence
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words = 0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words:
            vec = w2v_model.wv[word]
            sent_vec += vec
            cnt_words += 1
    if cnt_words != 0:
        sent_vec /= cnt_words
    sent_vectors_test.append(sent_vec)
sent_vectors_test = np.array(sent_vectors_test)
print(sent_vectors_test.shape)
print(sent_vectors_test[0])
```





```
(15000, 50)
[ 0.1516623  0.34454206 -0.49996615  0.36996236 -0.2159013 -0.13638763
-0.1660645 -0.7598694 -0.25084558 -0.14876872 -0.02898127  0.40603175
-0.00605606  0.00572137 -0.5665761 -0.38906195  0.5518045  0.17433315
-0.03521212 -0.54652633  0.09049561  0.01983985  0.2536048  0.58853543
-0.03909689 -0.59334805  0.70471905  0.16281635  0.28772889 -0.02039427
-0.408048  0.33060217 -0.37863074 -0.28907799 -0.08442414  0.65579001
-0.07032193  0.27720419 -0.26071827 -0.48821783 -0.33574199 -0.30003042
 0.11554231  0.2982962 -0.07206058  0.36244134 -0.39148928 -0.42033779
 0.07183214  0.26270388]
```

In [294]:

```
#Avgw2vec on Preprocessed essays
i=0
list_of_sentance_train_essay=[]
for sentance in (X_train_df['Preprocessed_Essay'].values):
    list_of_sentance_train_essay.append(sentance.split())

from gensim.models import Word2Vec
from gensim.models import KeyedVectors

w2v_model1=Word2Vec(list_of_sentance_train_essay,min_count=5,size=50, workers=4)

w2v_words1 = list(w2v_model1.wv.vocab)
print("number of words that occurred minimum 5 times ",len(w2v_words1))
print("sample words ", w2v_words1[0:50])
```

number of words that occurred minimum 5 times 12873
sample words ['students', 'work', 'face', 'many', 'challenges', 'lives', 'come', 'low', 'socio', 'economic', 'background', 'not', 'speak', 'english', 'native', 'language', 'school', 'hard', 'every', 'day', 'build', 'better', 'future', 'strong', 'desire', 'learn', 'successful', 'lack', 'necessary', 'tools', 'basic', 'needed', 'nothing', 'impossible', '2nd', 'grade', 'required', 'gain', 'greater', 'understanding', 'foundational', 'skill', 'adding', 'money', 'teach', 'good', 'choices', 'using', 'include', 'lessons']

In [295]:

```
from tqdm import tqdm
import numpy as np

sent_vectors_train_essay = []; # the avg-w2v for each sentence/review is stored in this list
for sent in tqdm(list_of_sentance_train_essay): # for each review/sentence
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words = 0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words1:
```

```
vec = w2v_model1.wv[word]
sent_vec += vec
cnt_words += 1
if cnt_words != 0:
    sent_vec /= cnt_words
sent_vectors_train_essay.append(sent_vec)
sent_vectors_train_essay = np.array(sent_vectors_train_essay)
print(sent_vectors_train_essay.shape)
print(sent_vectors_train_essay[0])
```

0%| | 0/24500 [00:00<?, ?it/s]

0%| | 19/24500 [00:00<02:12, 184.96it/s]

0%| | 39/24500 [00:00<02:09, 188.30it/s]

0%|| | 56/24500 [00:00<02:16, 179.68it/s]

0%|| | 70/24500 [00:00<02:28, 164.59it/s]

0%|| | 90/24500 [00:00<02:21, 172.15it/s]

0%|| | 108/24500 [00:00<02:22, 170.79it/s]

1%|| | 125/24500 [00:00<02:26, 166.09it/s]

1%|| | 141/24500 [00:00<02:52, 141.46it/s]

1%|| | 155/24500 [00:01<03:09, 128.23it/s]

1%|| | 168/24500 [00:01<03:22, 120.17it/s]

1%|| | 181/24500 [00:01<03:22, 119.95it/s]

1%|| | 197/24500 [00:01<03:15, 124.56it/s]

1%|| | 210/24500 [00:01<03:33, 113.98it/s]

1%|| | 224/24500 [00:01<03:22, 119.84it/s]

1%|| | 237/24500 [00:01<03:53, 103.84it/s]

1%|| | 248/24500 [00:01<03:56, 102.60it/s]

1%|| | 261/24500 [00:01<03:43, 108.34it/s]

1%|| | 273/24500 [00:02<05:00, 80.56it/s]

1%|| | 284/24500 [00:02<04:36, 87.48it/s]

1%|| | 297/24500 [00:02<04:11, 96.25it/s]

1%|| | 309/24500 [00:02<03:59, 101.09it/s]

1%|| | 325/24500 [00:02<03:35, 111.97it/s]

1%|| | 339/24500 [00:02<03:25, 117.36it/s]

1%|■

| 352/24500 [00:02<03:47, 106.34it/s]

1%|■

| 364/24500 [00:03<03:50, 104.55it/s]

2%|■

| 378/24500 [00:03<03:41, 108.93it/s]

2%|■

| 394/24500 [00:03<03:23, 118.36it/s]

2%|■

| 415/24500 [00:03<02:58, 135.04it/s]

2%|■

| 430/24500 [00:03<02:59, 133.78it/s]

2%|■

| 445/24500 [00:03<03:55, 102.17it/s]

2%|■

| 461/24500 [00:03<03:32, 113.12it/s]

2%|■

| 474/24500 [00:03<03:39, 109.68it/s]

2%|■

| 487/24500 [00:04<03:51, 103.80it/s]

2%|■

| 505/24500 [00:04<03:23, 118.17it/s]

2%|■

| 519/24500 [00:04<03:38, 109.92it/s]

2%|■

| 533/24500 [00:04<03:26, 115.88it/s]

2%|■

| 551/24500 [00:04<03:04, 129.53it/s]

2%|■

| 566/24500 [00:04<03:10, 125.70it/s]

2%|■

| 580/24500 [00:04<03:14, 123.09it/s]

2%|■

| 593/24500 [00:04<03:14, 123.06it/s]

2%|■

| 606/24500 [00:05<04:40, 85.17it/s]

3%|■

| 617/24500 [00:05<04:58, 79.89it/s]

3%|■

| 627/24500 [00:05<05:11, 76.69it/s]

3%|■

| 637/24500 [00:05<04:56, 80.61it/s]

3%|■

| 646/24500 [00:05<04:56, 80.40it/s]

3%|■

| 661/24500 [00:05<04:15, 93.34it/s]

3%|■

| 672/24500 [00:05<04:42, 84.37it/s]

3%|■

| 682/24500 [00:06<05:04, 78.28it/s]

3%|■

| 700/24500 [00:06<04:17, 92.54it/s]

3%|■

| 713/24500 [00:06<03:56, 100.37it/s]

3% [■]

| 725/24500 [00:06<04:04, 97.13it/s]

3% [■]

| 736/24500 [00:06<04:14, 93.23it/s]

3% [■]

| 750/24500 [00:06<03:50, 102.97it/s]

3% [■]

| 762/24500 [00:06<04:16, 92.62it/s]

3% [■]

| 775/24500 [00:06<03:54, 101.28it/s]

3% [■]

| 786/24500 [00:07<03:51, 102.55it/s]

3% [■]

| 798/24500 [00:07<03:44, 105.64it/s]

3% [■]

| 811/24500 [00:07<03:33, 110.79it/s]

3% [■]

| 826/24500 [00:07<03:21, 117.27it/s]

3% [■]

| 840/24500 [00:07<03:14, 121.41it/s]

3% [■]

| 853/24500 [00:07<03:43, 105.85it/s]

4% [■■]

| 865/24500 [00:07<03:41, 106.72it/s]

4% [■■]

| 877/24500 [00:07<03:39, 107.41it/s]

4% [■■]

| 889/24500 [00:07<03:38, 107.87it/s]

4% [■■]

| 900/24500 [00:08<03:39, 107.45it/s]

4% [■■]

| 911/24500 [00:08<03:50, 102.21it/s]

4% [■■]

| 922/24500 [00:08<04:24, 89.28it/s]

4% [■■]

| 935/24500 [00:08<03:59, 98.41it/s]

4% [■■]

| 949/24500 [00:08<03:41, 106.43it/s]

4% [■■]

| 961/24500 [00:08<03:58, 98.86it/s]

4% [■■]

| 973/24500 [00:08<03:49, 102.32it/s]

4% [■■]

| 984/24500 [00:08<03:49, 102.55it/s]

4% [■■]

| 995/24500 [00:08<03:52, 101.21it/s]

4% [■■]

| 1006/24500 [00:09<04:05, 95.75it/s]

4% [■■]

| 1020/24500 [00:09<03:43, 105.25it/s]

4% [■■]

| 1031/24500 [00:09<04:02, 96.74it/s]

4% [■■]

| 1044/24500 [00:09<03:43, 104.72it/s]

4% [■■]

| 1058/24500 [00:09<03:30, 111.47it/s]

4%|██████ | 1070/24500 [00:09<03:52, 100.81it/s]

4%|██████ | 1081/24500 [00:09<04:00, 97.44it/s]

4%|██████ | 1096/24500 [00:09<03:41, 105.73it/s]

5%|█████ | 1108/24500 [00:10<03:47, 102.70it/s]

5%|█████ | 1121/24500 [00:10<03:35, 108.31it/s]

5%|█████ | 1133/24500 [00:10<03:43, 104.39it/s]

5%|█████ | 1144/24500 [00:10<03:47, 102.54it/s]

5%|█████ | 1158/24500 [00:10<03:31, 110.25it/s]

5%|█████ | 1170/24500 [00:10<03:44, 103.73it/s]

5%|█████ | 1181/24500 [00:10<03:44, 103.95it/s]

5%|█████ | 1192/24500 [00:10<03:41, 105.17it/s]

5%|█████ | 1204/24500 [00:10<03:36, 107.54it/s]

5%|█████ | 1215/24500 [00:11<03:41, 105.25it/s]

5%|█████ | 1226/24500 [00:11<04:04, 95.36it/s]

5%|█████ | 1238/24500 [00:11<03:49, 101.18it/s]

5%|█████ | 1249/24500 [00:11<03:48, 101.74it/s]

5%|█████ | 1260/24500 [00:11<03:54, 99.11it/s]

5%|█████ | 1271/24500 [00:11<03:51, 100.40it/s]

5%|█████ | 1282/24500 [00:11<03:53, 99.26it/s]

5%|█████ | 1295/24500 [00:11<03:40, 105.25it/s]

5%|█████ | 1306/24500 [00:11<03:50, 100.83it/s]

5%|█████ | 1317/24500 [00:12<03:44, 103.30it/s]

5%|█████ | 1328/24500 [00:12<03:42, 104.07it/s]

5%|█████ | 1339/24500 [00:12<03:42, 104.05it/s]

6%|█████ | 1350/24500 [00:12<04:00, 96.29it/s]

6%|█████ | 1360/24500 [00:12<04:32, 84.96it/s]

6%|█████ | 1370/24500 [00:12<04:20, 88.92it/s]

6% [██████] | 1382/24500 [00:12<04:03, 95.06it/s]

6% [██████] | 1394/24500 [00:12<03:53, 98.85it/s]

6% [██████] | 1405/24500 [00:13<04:37, 83.37it/s]

6% [██████] | 1423/24500 [00:13<03:55, 97.79it/s]

6% [██████] | 1437/24500 [00:13<03:44, 102.78it/s]

6% [██████] | 1449/24500 [00:13<03:46, 101.97it/s]

6% [██████] | 1463/24500 [00:13<03:32, 108.43it/s]

6% [██████] | 1475/24500 [00:13<03:48, 100.77it/s]

6% [██████] | 1486/24500 [00:13<03:56, 97.16it/s]

6% [██████] | 1497/24500 [00:13<04:39, 82.27it/s]

6% [██████] | 1508/24500 [00:14<04:21, 87.78it/s]

6% [██████] | 1521/24500 [00:14<04:03, 94.56it/s]

6% [██████] | 1532/24500 [00:14<03:55, 97.48it/s]

6% [██████] | 1543/24500 [00:14<04:07, 92.84it/s]

6% [██████] | 1553/24500 [00:14<04:03, 94.41it/s]

6% [██████] | 1563/24500 [00:14<04:08, 92.13it/s]

6% [██████] | 1574/24500 [00:14<04:00, 95.23it/s]

6% [██████] | 1585/24500 [00:14<03:56, 96.81it/s]

7% [██████] | 1595/24500 [00:14<03:54, 97.70it/s]

7% [██████] | 1605/24500 [00:15<04:14, 89.79it/s]

7% [██████] | 1615/24500 [00:15<04:26, 86.02it/s]

7% [██████] | 1624/24500 [00:15<04:27, 85.58it/s]

7% [██████] | 1636/24500 [00:15<04:06, 92.83it/s]

7% [██████] | 1649/24500 [00:15<03:46, 100.68it/s]

7% [██████] | 1660/24500 [00:15<03:56, 96.68it/s]

7% [██████] | 1670/24500 [00:15<04:07, 92.08it/s]

7% [██████] | 1681/24500 [00:15<04:03, 93.71it/s]

7% [██████] | 1691/24500 [00:15<04:05, 92.80it/s]

7% ███████	1701/24500 [00:16<04:16, 88.74it/s]
7% ███████	1711/24500 [00:16<04:12, 90.29it/s]
7% ███████	1721/24500 [00:16<04:14, 89.34it/s]
7% ███████	1731/24500 [00:16<04:12, 90.12it/s]
7% ███████	1742/24500 [00:16<04:00, 94.61it/s]
7% ███████	1752/24500 [00:16<04:04, 93.00it/s]
7% ███████	1765/24500 [00:16<03:48, 99.34it/s]
7% ███████	1776/24500 [00:16<03:57, 95.75it/s]
7% ███████	1786/24500 [00:17<04:27, 84.85it/s]
7% ███████	1795/24500 [00:17<04:45, 79.42it/s]
7% ███████	1805/24500 [00:17<04:35, 82.47it/s]
7% ███████	1817/24500 [00:17<04:12, 89.79it/s]
7% ███████	1827/24500 [00:17<04:28, 84.59it/s]
8% ███████	1839/24500 [00:17<04:07, 91.61it/s]
8% ███████	1849/24500 [00:17<04:03, 92.96it/s]
8% ███████	1859/24500 [00:17<04:07, 91.65it/s]
8% ███████	1872/24500 [00:17<03:47, 99.42it/s]
8% ███████	1883/24500 [00:18<03:43, 101.05it/s]
8% ███████	1895/24500 [00:18<03:33, 105.87it/s]
8% ███████	1906/24500 [00:18<03:36, 104.42it/s]
8% ███████	1917/24500 [00:18<04:10, 90.22it/s]
8% ███████	1928/24500 [00:18<03:58, 94.69it/s]
8% ███████	1938/24500 [00:18<04:32, 82.68it/s]
8% ███████	1947/24500 [00:18<05:25, 69.36it/s]
8% ███████	1956/24500 [00:18<05:03, 74.17it/s]
8% ███████	1967/24500 [00:19<04:40, 80.28it/s]
8% ███████	1978/24500 [00:19<04:18, 87.10it/s]

8% [██████]	1991/24500 [00:19<03:57, 94.83it/s]
8% [██████]	2002/24500 [00:19<04:12, 88.93it/s]
8% [██████]	2012/24500 [00:19<04:12, 89.11it/s]
8% [██████]	2023/24500 [00:19<03:58, 94.41it/s]
8% [██████]	2033/24500 [00:19<04:24, 85.05it/s]
8% [██████]	2044/24500 [00:19<04:11, 89.15it/s]
8% [██████]	2055/24500 [00:20<04:03, 92.12it/s]
8% [██████]	2066/24500 [00:20<03:57, 94.59it/s]
8% [██████]	2076/24500 [00:20<05:18, 70.45it/s]
9% [██████]	2086/24500 [00:20<04:56, 75.55it/s]
9% [██████]	2095/24500 [00:20<05:07, 72.90it/s]
9% [██████]	2103/24500 [00:20<05:32, 67.28it/s]
9% [██████]	2112/24500 [00:20<05:19, 70.02it/s]
9% [██████]	2121/24500 [00:20<05:08, 72.55it/s]
9% [██████]	2129/24500 [00:21<05:30, 67.78it/s]
9% [██████]	2137/24500 [00:21<05:23, 69.03it/s]
9% [██████]	2145/24500 [00:21<05:11, 71.88it/s]
9% [██████]	2153/24500 [00:21<05:18, 70.19it/s]
9% [██████]	2161/24500 [00:21<05:23, 69.07it/s]
9% [██████]	2168/24500 [00:21<05:56, 62.60it/s]
9% [██████]	2175/24500 [00:21<05:48, 63.99it/s]
9% [██████]	2183/24500 [00:21<05:33, 66.93it/s]
9% [██████]	2192/24500 [00:21<05:08, 72.20it/s]
9% [██████]	2202/24500 [00:22<04:46, 77.72it/s]
9% [██████]	2211/24500 [00:22<04:54, 75.78it/s]
9% [██████]	2222/24500 [00:22<04:28, 83.07it/s]
9% [██████]	2234/24500 [00:22<04:08, 89.73it/s]
9% [██████]	2244/24500 [00:22<04:22, 84.67it/s]

9% ███████	2253/24500 [00:22<04:30, 82.26it/s]
9% ███████	2262/24500 [00:22<04:34, 81.08it/s]
9% ███████	2272/24500 [00:22<04:20, 85.25it/s]
9% ███████	2281/24500 [00:23<04:33, 81.19it/s]
9% ███████	2290/24500 [00:23<04:29, 82.33it/s]
9% ███████	2299/24500 [00:23<04:58, 74.32it/s]
9% ███████	2307/24500 [00:23<05:02, 73.29it/s]
9% ███████	2321/24500 [00:23<04:21, 84.71it/s]
10% ███████	2331/24500 [00:23<04:21, 84.79it/s]
10% ███████	2341/24500 [00:23<04:16, 86.29it/s]
10% ███████	2351/24500 [00:23<04:10, 88.41it/s]
10% ███████	2361/24500 [00:23<04:06, 89.70it/s]
10% ███████	2371/24500 [00:24<03:59, 92.48it/s]
10% ███████	2381/24500 [00:24<04:13, 87.27it/s]
10% ███████	2390/24500 [00:24<04:21, 84.65it/s]
10% ███████	2400/24500 [00:24<04:13, 87.26it/s]
10% ███████	2409/24500 [00:24<04:13, 86.99it/s]
10% ███████	2419/24500 [00:24<04:10, 88.26it/s]
10% ███████	2432/24500 [00:24<03:46, 97.50it/s]
10% ███████	2443/24500 [00:24<03:44, 98.37it/s]
10% ███████	2454/24500 [00:24<03:58, 92.34it/s]
10% ███████	2464/24500 [00:25<04:33, 80.53it/s]
10% ███████	2480/24500 [00:25<03:55, 93.37it/s]
10% ███████	2491/24500 [00:25<03:57, 92.82it/s]
10% ███████	2502/24500 [00:25<04:04, 90.04it/s]
10% ███████	2512/24500 [00:25<04:16, 85.61it/s]
10% ███████	2522/24500 [00:25<04:05, 89.45it/s]

10%	███████████	2532/24500 [00:25<04:00, 91.47it/s]
10%	███████████	2542/24500 [00:25<04:00, 91.14it/s]
10%	███████████	2552/24500 [00:26<04:04, 89.70it/s]
10%	███████████	2564/24500 [00:26<03:51, 94.75it/s]
11%	███████████	2579/24500 [00:26<03:32, 103.17it/s]
11%	███████████	2590/24500 [00:26<03:39, 100.04it/s]
11%	███████████	2601/24500 [00:26<04:03, 89.96it/s]
11%	███████████	2611/24500 [00:26<04:20, 83.97it/s]
11%	███████████	2621/24500 [00:26<04:15, 85.74it/s]
11%	███████████	2630/24500 [00:26<04:42, 77.41it/s]
11%	███████████	2640/24500 [00:27<04:29, 81.25it/s]
11%	███████████	2655/24500 [00:27<04:00, 90.81it/s]
11%	███████████	2667/24500 [00:27<03:43, 97.91it/s]
11%	███████████	2678/24500 [00:27<04:17, 84.90it/s]
11%	███████████	2688/24500 [00:27<04:09, 87.48it/s]
11%	███████████	2700/24500 [00:27<03:51, 94.14it/s]
11%	███████████	2710/24500 [00:27<04:07, 87.96it/s]
11%	███████████	2720/24500 [00:27<04:16, 85.05it/s]
11%	███████████	2731/24500 [00:27<04:01, 89.98it/s]
11%	███████████	2741/24500 [00:28<04:26, 81.72it/s]
11%	███████████	2750/24500 [00:28<04:45, 76.21it/s]
11%	███████████	2760/24500 [00:28<04:29, 80.74it/s]
11%	███████████	2769/24500 [00:28<04:36, 78.58it/s]
11%	███████████	2778/24500 [00:28<04:30, 80.44it/s]
11%	███████████	2787/24500 [00:28<04:22, 82.77it/s]
11%	███████████	2796/24500 [00:28<04:19, 83.57it/s]
11%	███████████	2810/24500 [00:28<03:50, 93.95it/s]
12%	███████████	2820/24500 [00:29<03:48, 94.94it/s]

12% [REDACTED]	2831/24500 [00:29<03:41, 97.81it/s]
12% [REDACTED]	2842/24500 [00:29<03:44, 96.35it/s]
12% [REDACTED]	2853/24500 [00:29<03:38, 98.86it/s]
12% [REDACTED]	2864/24500 [00:29<04:08, 87.07it/s]
12% [REDACTED]	2874/24500 [00:29<04:03, 88.69it/s]
12% [REDACTED]	2886/24500 [00:29<03:52, 93.04it/s]
12% [REDACTED]	2896/24500 [00:29<03:54, 92.21it/s]
12% [REDACTED]	2911/24500 [00:29<03:30, 102.61it/s]
12% [REDACTED]	2924/24500 [00:30<03:19, 108.24it/s]
12% [REDACTED]	2936/24500 [00:30<03:46, 95.18it/s]
12% [REDACTED]	2948/24500 [00:30<03:36, 99.53it/s]
12% [REDACTED]	2960/24500 [00:30<03:26, 104.15it/s]
12% [REDACTED]	2972/24500 [00:30<03:20, 107.37it/s]
12% [REDACTED]	2984/24500 [00:30<03:26, 104.04it/s]
12% [REDACTED]	2996/24500 [00:30<03:18, 108.22it/s]
12% [REDACTED]	3008/24500 [00:30<03:52, 92.54it/s]
12% [REDACTED]	3019/24500 [00:31<03:41, 96.98it/s]
12% [REDACTED]	3030/24500 [00:31<04:09, 86.02it/s]
12% [REDACTED]	3040/24500 [00:31<04:09, 85.93it/s]
12% [REDACTED]	3056/24500 [00:31<03:35, 99.37it/s]
13% [REDACTED]	3067/24500 [00:31<03:48, 93.91it/s]
13% [REDACTED]	3080/24500 [00:31<03:34, 99.92it/s]
13% [REDACTED]	3094/24500 [00:31<03:23, 105.41it/s]
13% [REDACTED]	3106/24500 [00:31<03:42, 96.18it/s]
13% [REDACTED]	3117/24500 [00:32<04:21, 81.72it/s]
13% [REDACTED]	3126/24500 [00:32<04:14, 84.00it/s]
13% [REDACTED]	3135/24500 [00:32<04:32, 78.50it/s]

13%	3144/24500 [00:32<04:50, 73.39it/s]
13%	3153/24500 [00:32<04:40, 76.09it/s]
13%	3166/24500 [00:32<04:08, 85.73it/s]
13%	3176/24500 [00:32<03:58, 89.55it/s]
13%	3186/24500 [00:32<04:02, 87.75it/s]
13%	3196/24500 [00:33<04:00, 88.60it/s]
13%	3206/24500 [00:33<04:00, 88.39it/s]
13%	3216/24500 [00:33<03:56, 90.11it/s]
13%	3226/24500 [00:33<03:55, 90.28it/s]
13%	3237/24500 [00:33<03:48, 93.06it/s]
13%	3249/24500 [00:33<03:35, 98.84it/s]
13%	3261/24500 [00:33<03:25, 103.32it/s]
13%	3272/24500 [00:33<03:41, 95.84it/s]
13%	3282/24500 [00:33<03:48, 92.81it/s]
13%	3293/24500 [00:34<03:38, 97.19it/s]
13%	3303/24500 [00:34<04:06, 85.98it/s]
14%	3319/24500 [00:34<03:34, 98.96it/s]
14%	3333/24500 [00:34<03:16, 107.82it/s]
14%	3347/24500 [00:34<03:07, 113.08it/s]
14%	3360/24500 [00:34<03:06, 113.46it/s]
14%	3372/24500 [00:34<03:07, 112.83it/s]
14%	3384/24500 [00:34<03:12, 109.90it/s]
14%	3397/24500 [00:34<03:05, 113.95it/s]
14%	3412/24500 [00:35<02:58, 118.25it/s]
14%	3425/24500 [00:35<03:17, 106.54it/s]
14%	3440/24500 [00:35<03:04, 114.06it/s]
14%	3453/24500 [00:35<02:59, 117.07it/s]
14%	3466/24500 [00:35<03:18, 105.87it/s]

14% [REDACTED]	3477/24500 [00:35<03:33, 98.59it/s]
14% [REDACTED]	3488/24500 [00:35<04:02, 86.70it/s]
14% [REDACTED]	3498/24500 [00:35<03:56, 88.93it/s]
14% [REDACTED]	3508/24500 [00:36<04:16, 81.70it/s]
14% [REDACTED]	3517/24500 [00:36<04:14, 82.58it/s]
14% [REDACTED]	3532/24500 [00:36<03:41, 94.78it/s]
14% [REDACTED]	3545/24500 [00:36<03:25, 101.78it/s]
15% [REDACTED]	3558/24500 [00:36<03:15, 107.33it/s]
15% [REDACTED]	3570/24500 [00:36<03:11, 109.24it/s]
15% [REDACTED]	3585/24500 [00:36<02:59, 116.28it/s]
15% [REDACTED]	3598/24500 [00:36<03:17, 105.57it/s]
15% [REDACTED]	3610/24500 [00:36<03:10, 109.46it/s]
15% [REDACTED]	3622/24500 [00:37<03:42, 93.95it/s]
15% [REDACTED]	3633/24500 [00:37<03:43, 93.22it/s]
15% [REDACTED]	3646/24500 [00:37<03:27, 100.47it/s]
15% [REDACTED]	3657/24500 [00:37<03:33, 97.68it/s]
15% [REDACTED]	3668/24500 [00:37<03:34, 97.21it/s]
15% [REDACTED]	3680/24500 [00:37<03:25, 101.33it/s]
15% [REDACTED]	3691/24500 [00:37<03:42, 93.59it/s]
15% [REDACTED]	3701/24500 [00:37<03:46, 91.95it/s]
15% [REDACTED]	3712/24500 [00:38<03:38, 95.15it/s]
15% [REDACTED]	3722/24500 [00:38<03:45, 92.10it/s]
15% [REDACTED]	3736/24500 [00:38<03:24, 101.36it/s]
15% [REDACTED]	3747/24500 [00:38<03:52, 89.26it/s]
15% [REDACTED]	3757/24500 [00:38<04:03, 85.02it/s]
15% [REDACTED]	3766/24500 [00:38<04:02, 85.39it/s]
15% [REDACTED]	3778/24500 [00:38<03:41, 93.46it/s]

15%| [REDACTED] | 3788/24500 [00:38<03:41, 93.68it/s]

16%| [REDACTED] | 3800/24500 [00:39<03:36, 95.54it/s]

16%| [REDACTED] | 3810/24500 [00:39<03:46, 91.47it/s]

16%| [REDACTED] | 3823/24500 [00:39<03:30, 98.33it/s]

16%| [REDACTED] | 3834/24500 [00:39<03:37, 95.02it/s]

16%| [REDACTED] | 3844/24500 [00:39<03:37, 94.88it/s]

16%| [REDACTED] | 3854/24500 [00:39<03:53, 88.58it/s]

16%| [REDACTED] | 3864/24500 [00:39<04:11, 81.94it/s]

16%| [REDACTED] | 3873/24500 [00:39<04:06, 83.79it/s]

16%| [REDACTED] | 3882/24500 [00:39<04:06, 83.72it/s]

16%| [REDACTED] | 3891/24500 [00:40<04:02, 85.09it/s]

16%| [REDACTED] | 3902/24500 [00:40<03:46, 91.13it/s]

16%| [REDACTED] | 3912/24500 [00:40<03:50, 89.19it/s]

16%| [REDACTED] | 3924/24500 [00:40<03:38, 94.20it/s]

16%| [REDACTED] | 3936/24500 [00:40<03:24, 100.36it/s]

16%| [REDACTED] | 3947/24500 [00:40<03:36, 95.14it/s]

16%| [REDACTED] | 3957/24500 [00:40<03:47, 90.46it/s]

16%| [REDACTED] | 3967/24500 [00:40<03:54, 87.46it/s]

16%| [REDACTED] | 3977/24500 [00:40<03:49, 89.48it/s]

16%| [REDACTED] | 3987/24500 [00:41<03:53, 87.85it/s]

16%| [REDACTED] | 3996/24500 [00:41<03:54, 87.27it/s]

16%| [REDACTED] | 4005/24500 [00:41<04:12, 81.24it/s]

16%| [REDACTED] | 4015/24500 [00:41<04:06, 83.03it/s]

16%| [REDACTED] | 4024/24500 [00:41<04:27, 76.62it/s]

16%| [REDACTED] | 4032/24500 [00:41<04:25, 77.04it/s]

16%| [REDACTED] | 4040/24500 [00:41<04:30, 75.72it/s]

17%| [REDACTED] | 4050/24500 [00:41<04:26, 76.79it/s]

17%| [REDACTED] | 4058/24500 [00:42<04:26, 76.81it/s]

17%| [REDACTED]

| 4066/24500 [00:42<04:35, 74.30it/s]

17%| [REDACTED]

| 4074/24500 [00:42<04:58, 68.53it/s]

17%| [REDACTED]

| 4083/24500 [00:42<04:44, 71.73it/s]

17%| [REDACTED]

| 4093/24500 [00:42<04:20, 78.30it/s]

17%| [REDACTED]

| 4102/24500 [00:42<04:26, 76.43it/s]

17%| [REDACTED]

| 4110/24500 [00:42<04:40, 72.73it/s]

17%| [REDACTED]

| 4118/24500 [00:42<04:41, 72.29it/s]

17%| [REDACTED]

| 4126/24500 [00:42<04:49, 70.36it/s]

17%| [REDACTED]

| 4134/24500 [00:43<04:50, 70.12it/s]

17%| [REDACTED]

| 4142/24500 [00:43<04:42, 72.09it/s]

17%| [REDACTED]

| 4150/24500 [00:43<04:49, 70.33it/s]

17%| [REDACTED]

| 4162/24500 [00:43<04:14, 79.87it/s]

17%| [REDACTED]

| 4171/24500 [00:43<04:08, 81.82it/s]

17%| [REDACTED]

| 4180/24500 [00:43<04:04, 83.07it/s]

17%| [REDACTED]

| 4189/24500 [00:43<04:26, 76.34it/s]

17%| [REDACTED]

| 4197/24500 [00:43<04:36, 73.42it/s]

17%| [REDACTED]

| 4206/24500 [00:43<04:21, 77.62it/s]

17%| [REDACTED]

| 4214/24500 [00:44<04:38, 72.95it/s]

17%| [REDACTED]

| 4222/24500 [00:44<04:37, 72.97it/s]

17%| [REDACTED]

| 4230/24500 [00:44<04:37, 72.94it/s]

17%| [REDACTED]

| 4240/24500 [00:44<04:19, 78.21it/s]

17%| [REDACTED]

| 4249/24500 [00:44<04:08, 81.39it/s]

17%| [REDACTED]

| 4260/24500 [00:44<03:51, 87.41it/s]

17%| [REDACTED]

| 4270/24500 [00:44<03:46, 89.34it/s]

17%| [REDACTED]

| 4282/24500 [00:44<03:31, 95.43it/s]

18%| [REDACTED]

| 4295/24500 [00:44<03:18, 101.77it/s]

18%| [REDACTED]

| 4306/24500 [00:45<03:19, 101.45it/s]

18%		4317/24500 [00:45<03:20, 100.75it/s]
18%		4328/24500 [00:45<03:37, 92.86it/s]
18%		4339/24500 [00:45<03:30, 95.96it/s]
18%		4349/24500 [00:45<03:29, 96.04it/s]
18%		4359/24500 [00:45<03:49, 87.69it/s]
18%		4368/24500 [00:45<04:07, 81.41it/s]
18%		4377/24500 [00:45<04:10, 80.22it/s]
18%		4386/24500 [00:46<04:13, 79.42it/s]
18%		4395/24500 [00:46<04:11, 79.82it/s]
18%		4404/24500 [00:46<04:20, 77.05it/s]
18%		4412/24500 [00:46<04:18, 77.56it/s]
18%		4420/24500 [00:46<04:23, 76.29it/s]
18%		4429/24500 [00:46<04:13, 79.10it/s]
18%		4437/24500 [00:46<04:27, 75.11it/s]
18%		4447/24500 [00:46<04:10, 80.07it/s]
18%		4459/24500 [00:46<03:51, 86.40it/s]
18%		4469/24500 [00:47<03:42, 90.02it/s]
18%		4479/24500 [00:47<04:04, 82.03it/s]
18%		4488/24500 [00:47<04:17, 77.82it/s]
18%		4501/24500 [00:47<03:57, 84.16it/s]
18%		4512/24500 [00:47<03:43, 89.24it/s]
18%		4522/24500 [00:47<04:06, 80.94it/s]
19%		4536/24500 [00:47<03:39, 91.09it/s]
19%		4546/24500 [00:47<03:47, 87.53it/s]
19%		4558/24500 [00:48<03:31, 94.43it/s]
19%		4568/24500 [00:48<03:57, 83.82it/s]
19%		4578/24500 [00:48<03:50, 86.33it/s]
19%		4592/24500 [00:48<03:27, 95.92it/s]

19% [REDACTED]	4604/24500 [00:48<03:21, 98.73it/s]
19% [REDACTED]	4615/24500 [00:48<03:17, 100.54it/s]
19% [REDACTED]	4626/24500 [00:48<03:40, 89.97it/s]
19% [REDACTED]	4636/24500 [00:48<03:40, 90.23it/s]
19% [REDACTED]	4646/24500 [00:49<04:01, 82.21it/s]
19% [REDACTED]	4655/24500 [00:49<04:14, 78.04it/s]
19% [REDACTED]	4666/24500 [00:49<03:57, 83.57it/s]
19% [REDACTED]	4678/24500 [00:49<03:35, 91.88it/s]
19% [REDACTED]	4688/24500 [00:49<03:56, 83.79it/s]
19% [REDACTED]	4697/24500 [00:49<03:58, 83.15it/s]
19% [REDACTED]	4708/24500 [00:49<03:43, 88.53it/s]
19% [REDACTED]	4718/24500 [00:49<03:44, 88.12it/s]
19% [REDACTED]	4728/24500 [00:49<03:41, 89.25it/s]
19% [REDACTED]	4740/24500 [00:50<03:30, 94.02it/s]
19% [REDACTED]	4750/24500 [00:50<03:36, 91.36it/s]
19% [REDACTED]	4760/24500 [00:50<03:40, 89.34it/s]
19% [REDACTED]	4770/24500 [00:50<04:08, 79.41it/s]
20% [REDACTED]	4780/24500 [00:50<03:53, 84.56it/s]
20% [REDACTED]	4792/24500 [00:50<03:34, 92.06it/s]
20% [REDACTED]	4804/24500 [00:50<03:22, 97.26it/s]
20% [REDACTED]	4815/24500 [00:50<03:26, 95.16it/s]
20% [REDACTED]	4825/24500 [00:50<03:35, 91.33it/s]
20% [REDACTED]	4835/24500 [00:51<03:49, 85.53it/s]
20% [REDACTED]	4844/24500 [00:51<03:46, 86.79it/s]
20% [REDACTED]	4853/24500 [00:51<03:54, 83.81it/s]
20% [REDACTED]	4864/24500 [00:51<03:42, 88.18it/s]
20% [REDACTED]	4873/24500 [00:51<03:56, 82.88it/s]

20%	[REDACTED]	4882/24500 [00:51<04:31, 72.14it/s]
20%	[REDACTED]	4892/24500 [00:51<04:11, 78.03it/s]
20%	[REDACTED]	4901/24500 [00:51<04:04, 80.04it/s]
20%	[REDACTED]	4910/24500 [00:52<04:01, 81.17it/s]
20%	[REDACTED]	4921/24500 [00:52<03:53, 83.93it/s]
20%	[REDACTED]	4935/24500 [00:52<03:26, 94.86it/s]
20%	[REDACTED]	4946/24500 [00:52<03:34, 91.16it/s]
20%	[REDACTED]	4956/24500 [00:52<03:32, 91.91it/s]
20%	[REDACTED]	4966/24500 [00:52<03:36, 90.30it/s]
20%	[REDACTED]	4976/24500 [00:52<03:30, 92.90it/s]
20%	[REDACTED]	4987/24500 [00:52<03:25, 94.92it/s]
20%	[REDACTED]	4997/24500 [00:52<03:24, 95.46it/s]
20%	[REDACTED]	5007/24500 [00:53<04:17, 75.69it/s]
20%	[REDACTED]	5017/24500 [00:53<03:58, 81.52it/s]
21%	[REDACTED]	5028/24500 [00:53<03:42, 87.59it/s]
21%	[REDACTED]	5038/24500 [00:53<03:43, 87.20it/s]
21%	[REDACTED]	5049/24500 [00:53<03:29, 92.95it/s]
21%	[REDACTED]	5063/24500 [00:53<03:08, 102.98it/s]
21%	[REDACTED]	5074/24500 [00:53<03:06, 104.18it/s]
21%	[REDACTED]	5087/24500 [00:53<02:57, 109.31it/s]
21%	[REDACTED]	5099/24500 [00:53<03:03, 105.45it/s]
21%	[REDACTED]	5110/24500 [00:54<03:03, 105.47it/s]
21%	[REDACTED]	5121/24500 [00:54<03:05, 104.45it/s]
21%	[REDACTED]	5132/24500 [00:54<03:14, 99.80it/s]
21%	[REDACTED]	5143/24500 [00:54<03:16, 98.33it/s]
21%	[REDACTED]	5153/24500 [00:54<03:46, 85.28it/s]
21%	[REDACTED]	5163/24500 [00:54<03:41, 87.21it/s]
21%	[REDACTED]	5174/24500 [00:54<03:30, 91.60it/s]

21%| [REDACTED]

| 5184/24500 [00:54<03:33, 90.45it/s]

21%| [REDACTED]

| 5194/24500 [00:55<03:30, 91.63it/s]

21%| [REDACTED]

| 5204/24500 [00:55<03:42, 86.66it/s]

21%| [REDACTED]

| 5213/24500 [00:55<03:40, 87.59it/s]

21%| [REDACTED]

| 5222/24500 [00:55<03:59, 80.57it/s]

21%| [REDACTED]

| 5234/24500 [00:55<03:36, 89.15it/s]

21%| [REDACTED]

| 5244/24500 [00:55<03:43, 85.97it/s]

21%| [REDACTED]

| 5253/24500 [00:55<03:49, 83.90it/s]

21%| [REDACTED]

| 5263/24500 [00:55<03:38, 87.87it/s]

22%| [REDACTED]

| 5272/24500 [00:55<03:43, 85.91it/s]

22%| [REDACTED]

| 5283/24500 [00:56<03:32, 90.43it/s]

22%| [REDACTED]

| 5293/24500 [00:56<03:37, 88.25it/s]

22%| [REDACTED]

| 5303/24500 [00:56<03:31, 90.79it/s]

22%| [REDACTED]

| 5314/24500 [00:56<03:21, 95.38it/s]

22%| [REDACTED]

| 5324/24500 [00:56<03:30, 91.00it/s]

22%| [REDACTED]

| 5336/24500 [00:56<03:19, 95.83it/s]

22%| [REDACTED]

| 5346/24500 [00:56<03:33, 89.81it/s]

22%| [REDACTED]

| 5356/24500 [00:56<03:28, 91.70it/s]

22%| [REDACTED]

| 5366/24500 [00:56<03:23, 93.84it/s]

22%| [REDACTED]

| 5376/24500 [00:57<03:25, 93.02it/s]

22%| [REDACTED]

| 5386/24500 [00:57<03:37, 87.84it/s]

22%| [REDACTED]

| 5396/24500 [00:57<03:29, 91.11it/s]

22%| [REDACTED]

| 5411/24500 [00:57<03:05, 103.01it/s]

22%| [REDACTED]

| 5422/24500 [00:57<03:04, 103.61it/s]

22%| [REDACTED]

| 5434/24500 [00:57<02:56, 107.82it/s]

22%| [REDACTED]

| 5446/24500 [00:57<03:16, 97.19it/s]

22%| [REDACTED]

| 5457/24500 [00:57<03:17, 96.29it/s]

22%	5467/24500 [00:57<03:31, 90.10it/s]
22%	5477/24500 [00:58<03:31, 89.92it/s]
22%	5487/24500 [00:58<03:52, 81.68it/s]
22%	5496/24500 [00:58<04:05, 77.37it/s]
22%	5505/24500 [00:58<04:00, 79.13it/s]
23%	5514/24500 [00:58<04:15, 74.25it/s]
23%	5523/24500 [00:58<04:07, 76.82it/s]
23%	5531/24500 [00:58<04:16, 73.93it/s]
23%	5539/24500 [00:58<04:11, 75.50it/s]
23%	5549/24500 [00:59<03:53, 81.14it/s]
23%	5558/24500 [00:59<03:54, 80.86it/s]
23%	5568/24500 [00:59<03:42, 84.97it/s]
23%	5577/24500 [00:59<03:55, 80.47it/s]
23%	5588/24500 [00:59<03:39, 86.14it/s]
23%	5597/24500 [00:59<03:44, 84.15it/s]
23%	5606/24500 [00:59<03:47, 83.05it/s]
23%	5617/24500 [00:59<03:31, 89.48it/s]
23%	5627/24500 [00:59<03:45, 83.88it/s]
23%	5636/24500 [01:00<03:47, 82.86it/s]
23%	5645/24500 [01:00<03:54, 80.40it/s]
23%	5657/24500 [01:00<03:33, 88.30it/s]
23%	5668/24500 [01:00<03:23, 92.61it/s]
23%	5678/24500 [01:00<03:27, 90.85it/s]
23%	5688/24500 [01:00<03:37, 86.35it/s]
23%	5697/24500 [01:00<03:55, 79.84it/s]
23%	5711/24500 [01:00<03:27, 90.55it/s]
23%	5721/24500 [01:00<03:21, 93.18it/s]
23%	5731/24500 [01:01<03:45, 83.23it/s]

23%	5741/24500 [01:01<03:42, 84.40it/s]
23%	5753/24500 [01:01<03:24, 91.84it/s]
24%	5763/24500 [01:01<03:31, 88.76it/s]
24%	5773/24500 [01:01<03:35, 87.03it/s]
24%	5785/24500 [01:01<03:18, 94.34it/s]
24%	5798/24500 [01:01<03:06, 100.39it/s]
24%	5809/24500 [01:01<03:07, 99.82it/s]
24%	5820/24500 [01:02<03:25, 91.00it/s]
24%	5832/24500 [01:02<03:12, 97.17it/s]
24%	5843/24500 [01:02<03:08, 99.00it/s]
24%	5856/24500 [01:02<02:54, 106.60it/s]
24%	5868/24500 [01:02<03:08, 98.75it/s]
24%	5881/24500 [01:02<02:59, 103.64it/s]
24%	5892/24500 [01:02<02:58, 104.45it/s]
24%	5903/24500 [01:02<03:06, 99.53it/s]
24%	5914/24500 [01:02<03:23, 91.55it/s]
24%	5926/24500 [01:03<03:09, 97.90it/s]
24%	5938/24500 [01:03<03:02, 101.60it/s]
24%	5949/24500 [01:03<03:09, 97.96it/s]
24%	5960/24500 [01:03<03:07, 98.91it/s]
24%	5971/24500 [01:03<03:40, 83.90it/s]
24%	5983/24500 [01:03<03:29, 88.28it/s]
24%	5993/24500 [01:03<03:35, 85.80it/s]
24%	6002/24500 [01:03<04:00, 76.83it/s]
25%	6011/24500 [01:04<03:51, 79.83it/s]
25%	6020/24500 [01:04<03:47, 81.12it/s]
25%	6029/24500 [01:04<03:49, 80.49it/s]

25%	6038/24500 [01:04<03:42, 83.04it/s]
25%	6047/24500 [01:04<04:11, 73.26it/s]
25%	6055/24500 [01:04<04:44, 64.78it/s]
25%	6064/24500 [01:04<04:22, 70.27it/s]
25%	6072/24500 [01:05<06:39, 46.15it/s]
25%	6081/24500 [01:05<05:44, 53.41it/s]
25%	6094/24500 [01:05<04:51, 63.20it/s]
25%	6103/24500 [01:05<04:32, 67.57it/s]
25%	6112/24500 [01:05<04:32, 67.50it/s]
25%	6120/24500 [01:05<04:42, 65.17it/s]
25%	6128/24500 [01:05<04:32, 67.49it/s]
25%	6136/24500 [01:06<04:58, 61.56it/s]
25%	6143/24500 [01:06<05:09, 59.30it/s]
25%	6150/24500 [01:06<06:05, 50.24it/s]
25%	6157/24500 [01:06<05:38, 54.16it/s]
25%	6163/24500 [01:06<05:39, 54.02it/s]
25%	6170/24500 [01:06<05:28, 55.82it/s]
25%	6177/24500 [01:06<05:22, 56.87it/s]
25%	6183/24500 [01:06<06:02, 50.47it/s]
25%	6190/24500 [01:07<05:35, 54.60it/s]
25%	6196/24500 [01:07<06:10, 49.43it/s]
25%	6203/24500 [01:07<06:48, 44.77it/s]
25%	6208/24500 [01:07<06:48, 44.77it/s]
25%	6215/24500 [01:07<06:06, 49.90it/s]
25%	6221/24500 [01:07<05:51, 51.98it/s]
25%	6230/24500 [01:07<05:13, 58.24it/s]
25%	6241/24500 [01:07<04:33, 66.72it/s]
26%	6249/24500 [01:08<04:20, 70.11it/s]

26% ███████████	6257/24500 [01:08<04:52, 62.41it/s]
26% ███████████	6265/24500 [01:08<04:35, 66.23it/s]
26% ███████████	6275/24500 [01:08<04:10, 72.65it/s]
26% ███████████	6283/24500 [01:08<04:13, 71.80it/s]
26% ███████████	6294/24500 [01:08<03:51, 78.54it/s]
26% ███████████	6303/24500 [01:08<03:55, 77.26it/s]
26% ███████████	6312/24500 [01:08<03:47, 79.78it/s]
26% ███████████	6321/24500 [01:08<03:49, 79.27it/s]
26% ███████████	6333/24500 [01:09<03:32, 85.67it/s]
26% ███████████	6343/24500 [01:09<03:31, 85.90it/s]
26% ███████████	6352/24500 [01:09<03:31, 85.67it/s]
26% ███████████	6361/24500 [01:09<03:33, 84.78it/s]
26% ███████████	6370/24500 [01:09<03:33, 84.89it/s]
26% ███████████	6380/24500 [01:09<03:29, 86.64it/s]
26% ███████████	6392/24500 [01:09<03:14, 93.19it/s]
26% ███████████	6403/24500 [01:09<03:07, 96.71it/s]
26% ███████████	6413/24500 [01:09<03:30, 86.01it/s]
26% ███████████	6422/24500 [01:10<03:41, 81.50it/s]
26% ███████████	6431/24500 [01:10<03:45, 80.26it/s]
26% ███████████	6442/24500 [01:10<03:31, 85.34it/s]
26% ███████████	6451/24500 [01:10<03:48, 79.05it/s]
26% ███████████	6461/24500 [01:10<03:37, 82.99it/s]
26% ███████████	6470/24500 [01:10<03:38, 82.44it/s]
26% ███████████	6483/24500 [01:10<03:16, 91.68it/s]
27% ███████████	6493/24500 [01:10<03:22, 88.85it/s]
27% ███████████	6503/24500 [01:11<03:24, 88.11it/s]
27% ███████████	6513/24500 [01:11<03:33, 84.08it/s]

27%	6522/24500 [01:11<03:30, 85.59it/s]
27%	6531/24500 [01:11<03:50, 77.93it/s]
27%	6543/24500 [01:11<03:29, 85.53it/s]
27%	6552/24500 [01:11<03:38, 82.14it/s]
27%	6562/24500 [01:11<03:31, 84.65it/s]
27%	6572/24500 [01:11<03:23, 88.10it/s]
27%	6582/24500 [01:11<03:29, 85.36it/s]
27%	6591/24500 [01:12<03:52, 76.99it/s]
27%	6599/24500 [01:12<03:54, 76.37it/s]
27%	6611/24500 [01:12<03:33, 83.63it/s]
27%	6621/24500 [01:12<03:25, 86.86it/s]
27%	6632/24500 [01:12<03:17, 90.44it/s]
27%	6643/24500 [01:12<03:10, 93.67it/s]
27%	6655/24500 [01:12<03:00, 98.86it/s]
27%	6666/24500 [01:12<03:58, 74.85it/s]
27%	6682/24500 [01:13<03:23, 87.64it/s]
27%	6696/24500 [01:13<03:00, 98.66it/s]
27%	6708/24500 [01:13<03:03, 96.72it/s]
27%	6721/24500 [01:13<02:53, 102.45it/s]
27%	6735/24500 [01:13<02:41, 110.11it/s]
28%	6747/24500 [01:13<02:37, 112.88it/s]
28%	6759/24500 [01:13<02:43, 108.76it/s]
28%	6771/24500 [01:13<02:51, 103.25it/s]
28%	6782/24500 [01:13<02:53, 102.21it/s]
28%	6793/24500 [01:14<03:01, 97.32it/s]
28%	6803/24500 [01:14<03:18, 89.25it/s]
28%	6813/24500 [01:14<03:25, 85.88it/s]
28%	6827/24500 [01:14<03:05, 95.25it/s]

28% ███████████	6840/24500 [01:14<02:50, 103.53it/s]
28% ███████████	6851/24500 [01:14<03:06, 94.56it/s]
28% ███████████	6862/24500 [01:14<02:58, 98.69it/s]
28% ███████████	6873/24500 [01:14<02:53, 101.82it/s]
28% ███████████	6884/24500 [01:15<03:09, 92.72it/s]
28% ███████████	6894/24500 [01:15<03:11, 92.17it/s]
28% ███████████	6905/24500 [01:15<03:06, 94.28it/s]
28% ███████████	6915/24500 [01:15<03:22, 86.92it/s]
28% ███████████	6925/24500 [01:15<03:14, 90.43it/s]
28% ███████████	6935/24500 [01:15<03:46, 77.65it/s]
28% ███████████	6946/24500 [01:15<03:28, 84.24it/s]
28% ███████████	6957/24500 [01:15<03:14, 90.33it/s]
28% ███████████	6967/24500 [01:16<03:40, 79.48it/s]
28% ███████████	6979/24500 [01:16<03:22, 86.48it/s]
29% ███████████	6989/24500 [01:16<03:16, 89.29it/s]
29% ███████████	7003/24500 [01:16<02:57, 98.67it/s]
29% ███████████	7014/24500 [01:16<03:06, 93.80it/s]
29% ███████████	7024/24500 [01:16<03:02, 95.53it/s]
29% ███████████	7035/24500 [01:16<02:57, 98.45it/s]
29% ███████████	7046/24500 [01:16<02:59, 97.31it/s]
29% ███████████	7056/24500 [01:16<03:13, 90.16it/s]
29% ███████████	7066/24500 [01:17<03:25, 84.90it/s]
29% ███████████	7076/24500 [01:17<03:21, 86.66it/s]
29% ███████████	7087/24500 [01:17<03:11, 91.01it/s]
29% ███████████	7097/24500 [01:17<03:26, 84.19it/s]
29% ███████████	7109/24500 [01:17<03:08, 92.40it/s]
29% ███████████	7119/24500 [01:17<03:03, 94.51it/s]

29%	███████████	7131/24500 [01:17<02:52, 100.93it/s]
29%	███████████	7142/24500 [01:17<02:59, 96.97it/s]
29%	███████████	7156/24500 [01:17<02:44, 105.35it/s]
29%	███████████	7167/24500 [01:18<02:42, 106.69it/s]
29%	███████████	7178/24500 [01:18<02:47, 103.49it/s]
29%	███████████	7190/24500 [01:18<02:42, 106.33it/s]
29%	███████████	7201/24500 [01:18<02:51, 100.70it/s]
29%	███████████	7212/24500 [01:18<02:50, 101.16it/s]
29%	███████████	7226/24500 [01:18<02:42, 106.29it/s]
30%	███████████	7237/24500 [01:18<03:05, 93.04it/s]
30%	███████████	7247/24500 [01:18<03:03, 94.03it/s]
30%	███████████	7261/24500 [01:19<02:49, 101.75it/s]
30%	███████████	7272/24500 [01:19<02:55, 97.97it/s]
30%	███████████	7283/24500 [01:19<02:54, 98.51it/s]
30%	███████████	7295/24500 [01:19<02:47, 102.44it/s]
30%	███████████	7307/24500 [01:19<02:45, 104.16it/s]
30%	███████████	7318/24500 [01:19<02:45, 103.83it/s]
30%	███████████	7329/24500 [01:19<02:49, 101.04it/s]
30%	███████████	7340/24500 [01:19<03:02, 93.86it/s]
30%	███████████	7351/24500 [01:19<02:56, 96.96it/s]
30%	███████████	7361/24500 [01:20<03:01, 94.33it/s]
30%	███████████	7371/24500 [01:20<03:10, 90.09it/s]
30%	███████████	7381/24500 [01:20<03:10, 89.67it/s]
30%	███████████	7391/24500 [01:20<03:06, 91.85it/s]
30%	███████████	7401/24500 [01:20<03:18, 86.20it/s]
30%	███████████	7410/24500 [01:20<03:23, 84.16it/s]
30%	███████████	7424/24500 [01:20<03:00, 94.36it/s]
30%	███████████	7434/24500 [01:20<03:00, 94.81it/s]

30%		7446/24500 [01:20<02:52, 98.98it/s]
30%		7457/24500 [01:21<03:01, 93.75it/s]
30%		7467/24500 [01:21<03:06, 91.31it/s]
31%		7477/24500 [01:21<03:18, 85.57it/s]
31%		7490/24500 [01:21<03:01, 93.47it/s]
31%		7500/24500 [01:21<03:11, 88.59it/s]
31%		7511/24500 [01:21<03:04, 92.12it/s]
31%		7521/24500 [01:21<03:01, 93.36it/s]
31%		7531/24500 [01:21<03:36, 78.35it/s]
31%		7543/24500 [01:22<03:14, 87.32it/s]
31%		7556/24500 [01:22<02:56, 96.06it/s]
31%		7567/24500 [01:22<02:54, 97.02it/s]
31%		7578/24500 [01:22<02:49, 99.56it/s]
31%		7589/24500 [01:22<02:48, 100.59it/s]
31%		7600/24500 [01:22<02:52, 98.08it/s]
31%		7613/24500 [01:22<02:40, 105.39it/s]
31%		7624/24500 [01:22<02:47, 100.82it/s]
31%		7635/24500 [01:22<02:55, 96.28it/s]
31%		7645/24500 [01:23<02:58, 94.66it/s]
31%		7655/24500 [01:23<03:07, 90.01it/s]
31%		7665/24500 [01:23<03:25, 81.92it/s]
31%		7676/24500 [01:23<03:13, 86.78it/s]
31%		7690/24500 [01:23<02:52, 97.25it/s]
31%		7701/24500 [01:23<03:20, 83.75it/s]
31%		7713/24500 [01:23<03:07, 89.64it/s]
32%		7723/24500 [01:23<03:08, 89.01it/s]
32%		7733/24500 [01:24<03:04, 91.11it/s]

32%		7743/24500 [01:24<03:30, 79.43it/s]
32%		7754/24500 [01:24<03:13, 86.50it/s]
32%		7765/24500 [01:24<03:02, 91.80it/s]
32%		7776/24500 [01:24<02:54, 95.90it/s]
32%		7786/24500 [01:24<03:02, 91.83it/s]
32%		7796/24500 [01:24<03:26, 80.97it/s]
32%		7807/24500 [01:24<03:11, 87.16it/s]
32%		7818/24500 [01:24<03:02, 91.62it/s]
32%		7828/24500 [01:25<02:58, 93.26it/s]
32%		7841/24500 [01:25<02:46, 100.03it/s]
32%		7852/24500 [01:25<02:51, 96.86it/s]
32%		7864/24500 [01:25<02:43, 101.58it/s]
32%		7877/24500 [01:25<02:34, 107.70it/s]
32%		7889/24500 [01:25<02:43, 101.32it/s]
32%		7900/24500 [01:25<02:41, 102.74it/s]
32%		7911/24500 [01:25<02:45, 100.13it/s]
32%		7922/24500 [01:26<02:51, 96.60it/s]
32%		7932/24500 [01:26<03:19, 82.87it/s]
32%		7947/24500 [01:26<02:54, 94.65it/s]
32%		7959/24500 [01:26<02:43, 101.03it/s]
33%		7970/24500 [01:26<02:50, 97.11it/s]
33%		7985/24500 [01:26<02:32, 108.52it/s]
33%		7997/24500 [01:26<02:44, 100.38it/s]
33%		8008/24500 [01:26<02:40, 102.88it/s]
33%		8019/24500 [01:26<02:49, 97.48it/s]
33%		8030/24500 [01:27<02:47, 98.04it/s]
33%		8041/24500 [01:27<02:49, 96.87it/s]
33%		8051/24500 [01:27<02:50, 96.59it/s]

33%	8061/24500 [01:27<02:56, 93.30it/s]
33%	8071/24500 [01:27<03:11, 85.75it/s]
33%	8080/24500 [01:27<03:17, 83.06it/s]
33%	8093/24500 [01:27<02:59, 91.17it/s]
33%	8103/24500 [01:27<03:03, 89.58it/s]
33%	8113/24500 [01:28<03:09, 86.67it/s]
33%	8123/24500 [01:28<03:01, 90.25it/s]
33%	8133/24500 [01:28<02:58, 91.56it/s]
33%	8143/24500 [01:28<03:08, 86.64it/s]
33%	8152/24500 [01:28<03:06, 87.57it/s]
33%	8163/24500 [01:28<02:55, 93.26it/s]
33%	8173/24500 [01:28<03:00, 90.54it/s]
33%	8183/24500 [01:28<03:12, 84.74it/s]
33%	8194/24500 [01:28<03:00, 90.40it/s]
33%	8205/24500 [01:29<02:51, 95.08it/s]
34%	8217/24500 [01:29<02:42, 99.95it/s]
34%	8228/24500 [01:29<03:09, 86.00it/s]
34%	8242/24500 [01:29<02:49, 96.04it/s]
34%	8253/24500 [01:29<02:43, 99.37it/s]
34%	8264/24500 [01:29<02:46, 97.78it/s]
34%	8279/24500 [01:29<02:32, 106.45it/s]
34%	8291/24500 [01:29<02:35, 104.41it/s]
34%	8302/24500 [01:29<02:46, 97.57it/s]
34%	8313/24500 [01:30<03:06, 86.63it/s]
34%	8325/24500 [01:30<02:52, 93.95it/s]
34%	8335/24500 [01:30<02:57, 91.07it/s]
34%	8345/24500 [01:30<03:11, 84.40it/s]

34%		8354/24500 [01:30<03:13, 83.38it/s]
34%		8363/24500 [01:30<03:37, 74.30it/s]
34%		8371/24500 [01:30<03:38, 73.90it/s]
34%		8381/24500 [01:30<03:21, 80.06it/s]
34%		8390/24500 [01:31<03:16, 82.15it/s]
34%		8399/24500 [01:31<03:37, 73.97it/s]
34%		8407/24500 [01:31<03:37, 73.85it/s]
34%		8417/24500 [01:31<03:22, 79.42it/s]
34%		8426/24500 [01:31<03:27, 77.46it/s]
34%		8434/24500 [01:31<03:25, 78.20it/s]
34%		8444/24500 [01:31<03:12, 83.60it/s]
35%		8455/24500 [01:31<03:02, 87.95it/s]
35%		8464/24500 [01:31<03:16, 81.42it/s]
35%		8475/24500 [01:32<03:01, 88.28it/s]
35%		8485/24500 [01:32<03:04, 86.72it/s]
35%		8494/24500 [01:32<03:04, 86.58it/s]
35%		8509/24500 [01:32<02:44, 97.19it/s]
35%		8522/24500 [01:32<02:33, 103.84it/s]
35%		8533/24500 [01:32<02:41, 98.86it/s]
35%		8544/24500 [01:32<02:42, 97.95it/s]
35%		8559/24500 [01:32<02:28, 107.29it/s]
35%		8571/24500 [01:33<02:35, 102.40it/s]
35%		8582/24500 [01:33<02:36, 102.03it/s]
35%		8593/24500 [01:33<02:33, 103.79it/s]
35%		8605/24500 [01:33<02:30, 105.68it/s]
35%		8616/24500 [01:33<02:42, 97.65it/s]
35%		8626/24500 [01:33<03:06, 84.97it/s]
35%		8636/24500 [01:33<02:59, 88.30it/s]

35%	8646/24500 [01:33<02:56, 89.86it/s]
35%	8656/24500 [01:33<02:57, 89.04it/s]
35%	8667/24500 [01:34<02:50, 92.98it/s]
35%	8677/24500 [01:34<02:46, 94.92it/s]
35%	8693/24500 [01:34<02:28, 106.34it/s]
36%	8707/24500 [01:34<02:19, 113.15it/s]
36%	8719/24500 [01:34<02:36, 100.99it/s]
36%	8730/24500 [01:34<02:51, 91.74it/s]
36%	8744/24500 [01:34<02:38, 99.29it/s]
36%	8755/24500 [01:34<02:40, 97.94it/s]
36%	8766/24500 [01:35<02:45, 95.08it/s]
36%	8776/24500 [01:35<02:50, 92.36it/s]
36%	8786/24500 [01:35<03:00, 86.94it/s]
36%	8797/24500 [01:35<02:49, 92.76it/s]
36%	8809/24500 [01:35<02:38, 98.71it/s]
36%	8820/24500 [01:35<02:41, 97.29it/s]
36%	8831/24500 [01:35<02:45, 94.65it/s]
36%	8842/24500 [01:35<02:41, 97.14it/s]
36%	8852/24500 [01:35<02:55, 89.11it/s]
36%	8862/24500 [01:36<02:57, 88.18it/s]
36%	8873/24500 [01:36<02:48, 92.77it/s]
36%	8889/24500 [01:36<02:29, 104.45it/s]
36%	8901/24500 [01:36<02:54, 89.24it/s]
36%	8912/24500 [01:36<02:45, 94.45it/s]
36%	8923/24500 [01:36<02:46, 93.55it/s]
36%	8933/24500 [01:36<03:05, 84.12it/s]
36%	8942/24500 [01:36<03:23, 76.40it/s]

37%	8952/24500 [01:37<03:14, 80.13it/s]
37%	8961/24500 [01:37<03:12, 80.73it/s]
37%	8970/24500 [01:37<03:20, 77.55it/s]
37%	8983/24500 [01:37<02:55, 88.19it/s]
37%	8998/24500 [01:37<02:36, 98.75it/s]
37%	9009/24500 [01:37<02:33, 100.77it/s]
37%	9020/24500 [01:37<02:39, 97.28it/s]
37%	9031/24500 [01:37<02:39, 96.86it/s]
37%	9042/24500 [01:37<02:35, 99.72it/s]
37%	9053/24500 [01:38<02:44, 94.01it/s]
37%	9063/24500 [01:38<02:48, 91.85it/s]
37%	9075/24500 [01:38<02:37, 97.91it/s]
37%	9086/24500 [01:38<02:48, 91.49it/s]
37%	9099/24500 [01:38<02:33, 100.35it/s]
37%	9110/24500 [01:38<02:50, 90.21it/s]
37%	9120/24500 [01:38<02:54, 88.06it/s]
37%	9130/24500 [01:38<02:53, 88.83it/s]
37%	9140/24500 [01:39<02:51, 89.52it/s]
37%	9150/24500 [01:39<02:57, 86.39it/s]
37%	9159/24500 [01:39<02:55, 87.40it/s]
37%	9168/24500 [01:39<02:59, 85.42it/s]
37%	9180/24500 [01:39<02:47, 91.35it/s]
38%	9190/24500 [01:39<02:54, 87.83it/s]
38%	9199/24500 [01:39<02:53, 88.43it/s]
38%	9210/24500 [01:39<02:44, 92.94it/s]
38%	9222/24500 [01:39<02:33, 99.25it/s]
38%	9233/24500 [01:40<02:44, 92.65it/s]
38%	9244/24500 [01:40<02:42, 93.84it/s]

38%	[REDACTED]	9258/24500 [01:40<02:28, 102.61it/s]
38%	[REDACTED]	9269/24500 [01:40<02:31, 100.50it/s]
38%	[REDACTED]	9280/24500 [01:40<02:30, 101.26it/s]
38%	[REDACTED]	9291/24500 [01:40<02:33, 99.06it/s]
38%	[REDACTED]	9302/24500 [01:40<02:52, 88.21it/s]
38%	[REDACTED]	9313/24500 [01:40<02:42, 93.61it/s]
38%	[REDACTED]	9324/24500 [01:40<02:35, 97.66it/s]
38%	[REDACTED]	9335/24500 [01:41<02:45, 91.79it/s]
38%	[REDACTED]	9345/24500 [01:41<02:47, 90.75it/s]
38%	[REDACTED]	9355/24500 [01:41<02:42, 93.27it/s]
38%	[REDACTED]	9365/24500 [01:41<02:43, 92.63it/s]
38%	[REDACTED]	9375/24500 [01:41<02:48, 89.95it/s]
38%	[REDACTED]	9388/24500 [01:41<02:32, 99.01it/s]
38%	[REDACTED]	9399/24500 [01:41<02:30, 100.25it/s]
38%	[REDACTED]	9413/24500 [01:41<02:20, 107.10it/s]
38%	[REDACTED]	9425/24500 [01:41<02:23, 104.82it/s]
39%	[REDACTED]	9436/24500 [01:42<02:43, 92.36it/s]
39%	[REDACTED]	9446/24500 [01:42<02:44, 91.38it/s]
39%	[REDACTED]	9458/24500 [01:42<02:40, 93.75it/s]
39%	[REDACTED]	9472/24500 [01:42<02:29, 100.64it/s]
39%	[REDACTED]	9486/24500 [01:42<02:16, 109.89it/s]
39%	[REDACTED]	9498/24500 [01:42<02:24, 103.90it/s]
39%	[REDACTED]	9509/24500 [01:42<02:30, 99.88it/s]
39%	[REDACTED]	9520/24500 [01:42<02:38, 94.78it/s]
39%	[REDACTED]	9530/24500 [01:43<02:40, 93.54it/s]
39%	[REDACTED]	9542/24500 [01:43<02:30, 99.14it/s]
39%	[REDACTED]	9553/24500 [01:43<02:30, 99.39it/s]

39%		9564/24500 [01:43<02:29, 99.72it/s]
39%		9575/24500 [01:43<02:32, 98.13it/s]
39%		9585/24500 [01:43<02:31, 98.64it/s]
39%		9595/24500 [01:43<02:47, 88.75it/s]
39%		9605/24500 [01:43<02:54, 85.34it/s]
39%		9619/24500 [01:43<02:36, 95.34it/s]
39%		9630/24500 [01:44<02:32, 97.79it/s]
39%		9641/24500 [01:44<02:35, 95.70it/s]
39%		9653/24500 [01:44<02:32, 97.26it/s]
39%		9663/24500 [01:44<02:47, 88.53it/s]
40%		9678/24500 [01:44<02:33, 96.52it/s]
40%		9689/24500 [01:44<02:40, 92.16it/s]
40%		9699/24500 [01:44<02:38, 93.28it/s]
40%		9711/24500 [01:44<02:30, 98.49it/s]
40%		9722/24500 [01:45<02:33, 96.34it/s]
40%		9732/24500 [01:45<02:59, 82.08it/s]
40%		9741/24500 [01:45<02:59, 82.03it/s]
40%		9752/24500 [01:45<02:48, 87.46it/s]
40%		9762/24500 [01:45<02:48, 87.64it/s]
40%		9772/24500 [01:45<02:45, 89.17it/s]
40%		9783/24500 [01:45<02:35, 94.36it/s]
40%		9793/24500 [01:45<02:44, 89.62it/s]
40%		9803/24500 [01:46<02:50, 86.13it/s]
40%		9813/24500 [01:46<02:43, 89.69it/s]
40%		9829/24500 [01:46<02:24, 101.79it/s]
40%		9841/24500 [01:46<02:18, 105.60it/s]
40%		9853/24500 [01:46<02:19, 105.03it/s]
40%		9864/24500 [01:46<02:21, 103.26it/s]

40%	9875/24500 [01:46<02:30, 97.43it/s]
40%	9885/24500 [01:46<02:30, 97.16it/s]
40%	9896/24500 [01:46<02:25, 100.55it/s]
40%	9907/24500 [01:47<02:37, 92.73it/s]
40%	9917/24500 [01:47<02:45, 88.31it/s]
41%	9927/24500 [01:47<02:39, 91.50it/s]
41%	9938/24500 [01:47<02:32, 95.47it/s]
41%	9948/24500 [01:47<02:34, 94.03it/s]
41%	9958/24500 [01:47<02:36, 92.86it/s]
41%	9968/24500 [01:47<02:40, 90.49it/s]
41%	9980/24500 [01:47<02:29, 97.29it/s]
41%	9990/24500 [01:47<02:33, 94.29it/s]
41%	10000/24500 [01:48<02:35, 93.45it/s]
41%	10010/24500 [01:48<02:41, 89.75it/s]
41%	10021/24500 [01:48<02:32, 94.82it/s]
41%	10032/24500 [01:48<02:27, 97.93it/s]
41%	10042/24500 [01:48<02:42, 89.15it/s]
41%	10059/24500 [01:48<02:19, 103.28it/s]
41%	10073/24500 [01:48<02:09, 111.48it/s]
41%	10086/24500 [01:48<02:20, 102.28it/s]
41%	10099/24500 [01:48<02:14, 107.18it/s]
41%	10111/24500 [01:49<02:19, 103.12it/s]
41%	10122/24500 [01:49<02:17, 104.57it/s]
41%	10133/24500 [01:49<02:29, 96.22it/s]
41%	10143/24500 [01:49<02:45, 87.00it/s]
41%	10157/24500 [01:49<02:27, 96.98it/s]
42%	10168/24500 [01:49<02:26, 97.75it/s]

| 10173/24500 [01:49<02:25, 97.44it/s]

42%	10179/24500 [01:49<02:25, 98.44it/s]
42%	10190/24500 [01:49<02:30, 94.81it/s]
42%	10203/24500 [01:49<02:18, 103.17it/s]
42%	10214/24500 [01:50<02:19, 102.28it/s]
42%	10225/24500 [01:50<02:24, 98.80it/s]
42%	10238/24500 [01:50<02:15, 105.49it/s]
42%	10249/24500 [01:50<02:17, 103.75it/s]
42%	10262/24500 [01:50<02:08, 110.41it/s]
42%	10274/24500 [01:50<02:23, 99.20it/s]
42%	10285/24500 [01:50<02:43, 86.72it/s]
42%	10300/24500 [01:50<02:23, 99.10it/s]
42%	10311/24500 [01:51<02:20, 100.77it/s]
42%	10322/24500 [01:51<02:20, 101.03it/s]
42%	10334/24500 [01:51<02:15, 104.75it/s]
42%	10348/24500 [01:51<02:05, 113.11it/s]
42%	10360/24500 [01:51<02:16, 103.30it/s]
42%	10373/24500 [01:51<02:09, 108.72it/s]
42%	10385/24500 [01:51<02:20, 100.54it/s]
42%	10396/24500 [01:51<02:21, 99.84it/s]
42%	10408/24500 [01:51<02:16, 103.53it/s]
43%	10419/24500 [01:52<02:19, 101.22it/s]
43%	10430/24500 [01:52<02:29, 94.15it/s]
43%	10441/24500 [01:52<02:24, 97.36it/s]
43%	10451/24500 [01:52<02:23, 98.07it/s]
43%	10463/24500 [01:52<02:18, 101.32it/s]
43%	10474/24500 [01:52<02:21, 99.13it/s]
43%	10489/24500 [01:52<02:07, 109.60it/s]
43%	10501/24500 [01:52<02:06, 110.80it/s]

43%	10513/24500 [01:53<02:19, 100.62it/s]
43%	10524/24500 [01:53<02:25, 96.09it/s]
43%	10535/24500 [01:53<02:24, 96.33it/s]
43%	10546/24500 [01:53<02:23, 97.36it/s]
43%	10556/24500 [01:53<02:34, 90.30it/s]
43%	10568/24500 [01:53<02:26, 95.19it/s]
43%	10580/24500 [01:53<02:20, 99.40it/s]
43%	10591/24500 [01:53<02:25, 95.76it/s]
43%	10601/24500 [01:53<02:26, 95.14it/s]
43%	10611/24500 [01:54<02:34, 89.99it/s]
43%	10623/24500 [01:54<02:22, 97.11it/s]
43%	10633/24500 [01:54<02:27, 94.17it/s]
43%	10644/24500 [01:54<02:21, 98.23it/s]
43%	10655/24500 [01:54<02:21, 97.78it/s]
44%	10671/24500 [01:54<02:05, 110.30it/s]
44%	10683/24500 [01:54<02:07, 108.38it/s]
44%	10695/24500 [01:54<02:19, 98.95it/s]
44%	10707/24500 [01:54<02:13, 103.46it/s]
44%	10718/24500 [01:55<02:29, 92.04it/s]
44%	10732/24500 [01:55<02:27, 93.14it/s]
44%	10742/24500 [01:55<02:34, 88.97it/s]
44%	10755/24500 [01:55<02:22, 96.14it/s]
44%	10769/24500 [01:55<02:09, 105.88it/s]
44%	10781/24500 [01:55<02:06, 108.47it/s]
44%	10793/24500 [01:55<02:04, 110.20it/s]
44%	10805/24500 [01:55<02:06, 108.34it/s]
44%	10817/24500 [01:56<02:17, 99.82it/s]
44%	10829/24500 [01:56<02:07, 107.11it/s]

44%		10830/24500 [01:56<02:07, 107.14it/s]
44%		10842/24500 [01:56<02:16, 100.31it/s]
44%		10854/24500 [01:56<02:09, 105.37it/s]
44%		10865/24500 [01:56<02:19, 98.05it/s]
44%		10882/24500 [01:56<02:04, 109.43it/s]
44%		10894/24500 [01:56<02:20, 97.03it/s]
45%		10906/24500 [01:56<02:12, 102.89it/s]
45%		10918/24500 [01:57<02:07, 106.36it/s]
45%		10930/24500 [01:57<02:22, 95.47it/s]
45%		10944/24500 [01:57<02:09, 104.61it/s]
45%		10956/24500 [01:57<02:04, 108.71it/s]
45%		10968/24500 [01:57<02:16, 99.17it/s]
45%		10979/24500 [01:57<02:22, 94.96it/s]
45%		10989/24500 [01:57<02:23, 93.92it/s]
45%		10999/24500 [01:57<02:40, 84.38it/s]
45%		11008/24500 [01:58<03:10, 70.68it/s]
45%		11018/24500 [01:58<02:56, 76.57it/s]
45%		11028/24500 [01:58<02:43, 82.21it/s]
45%		11039/24500 [01:58<02:39, 84.31it/s]
45%		11048/24500 [01:58<02:39, 84.08it/s]
45%		11059/24500 [01:58<02:31, 89.00it/s]
45%		11073/24500 [01:58<02:17, 97.34it/s]
45%		11084/24500 [01:58<02:15, 99.18it/s]
45%		11095/24500 [01:59<02:41, 82.84it/s]
45%		11106/24500 [01:59<02:31, 88.13it/s]
45%		11120/24500 [01:59<02:14, 99.15it/s]
45%		11133/24500 [01:59<02:09, 103.21it/s]
45%		11144/24500 [01:59<02:25, 91.93it/s]

46% ███████████	11154/24500 [01:59<02:31, 87.81it/s]
46% ███████████	11165/24500 [01:59<02:22, 93.44it/s]
46% ███████████	11176/24500 [01:59<02:16, 97.54it/s]
46% ███████████	11187/24500 [01:59<02:22, 93.46it/s]
46% ███████████	11197/24500 [02:00<02:29, 89.16it/s]
46% ███████████	11210/24500 [02:00<02:15, 97.83it/s]
46% ███████████	11221/24500 [02:00<02:16, 97.50it/s]
46% ███████████	11232/24500 [02:00<02:17, 96.76it/s]
46% ███████████	11244/24500 [02:00<02:09, 102.27it/s]
46% ███████████	11257/24500 [02:00<02:02, 107.98it/s]
46% ███████████	11269/24500 [02:00<02:07, 103.62it/s]
46% ███████████	11280/24500 [02:00<02:08, 102.52it/s]
46% ███████████	11291/24500 [02:00<02:14, 97.99it/s]
46% ███████████	11301/24500 [02:01<02:22, 92.86it/s]
46% ███████████	11312/24500 [02:01<02:17, 96.04it/s]
46% ███████████	11323/24500 [02:01<02:12, 99.82it/s]
46% ███████████	11334/24500 [02:01<02:16, 96.46it/s]
46% ███████████	11344/24500 [02:01<02:21, 92.82it/s]
46% ███████████	11354/24500 [02:01<02:23, 91.67it/s]
46% ███████████	11366/24500 [02:01<02:15, 96.58it/s]
46% ███████████	11378/24500 [02:01<02:08, 102.40it/s]
46% ███████████	11390/24500 [02:01<02:05, 104.13it/s]
47% ███████████	11401/24500 [02:02<02:07, 102.65it/s]
47% ███████████	11413/24500 [02:02<02:02, 106.53it/s]
47% ███████████	11424/24500 [02:02<02:02, 106.38it/s]
47% ███████████	11435/24500 [02:02<02:08, 101.87it/s]
47% ███████████	11446/24500 [02:02<02:15, 96.33it/s]
47% ███████████	11450/24500 [02:02<02:07, 100.61it/s]

47%		11459/24500 [02:02<02:07, 102.61it/s]
47%		11470/24500 [02:02<02:18, 94.24it/s]
47%		11480/24500 [02:02<02:18, 94.19it/s]
47%		11490/24500 [02:02<02:15, 95.82it/s]
47%		11500/24500 [02:03<02:15, 95.96it/s]
47%		11510/24500 [02:03<02:17, 94.45it/s]
47%		11521/24500 [02:03<02:13, 97.00it/s]
47%		11533/24500 [02:03<02:09, 100.33it/s]
47%		11545/24500 [02:03<02:06, 102.80it/s]
47%		11556/24500 [02:03<02:19, 93.12it/s]
47%		11566/24500 [02:03<02:20, 92.27it/s]
47%		11576/24500 [02:03<02:29, 86.24it/s]
47%		11585/24500 [02:04<02:28, 87.12it/s]
47%		11594/24500 [02:04<02:29, 86.27it/s]
47%		11603/24500 [02:04<02:31, 85.19it/s]
47%		11616/24500 [02:04<02:18, 93.24it/s]
47%		11626/24500 [02:04<02:16, 94.43it/s]
47%		11637/24500 [02:04<02:13, 96.62it/s]
48%		11647/24500 [02:04<02:34, 83.08it/s]
48%		11659/24500 [02:04<02:20, 91.40it/s]
48%		11673/24500 [02:04<02:05, 102.01it/s]
48%		11684/24500 [02:05<02:09, 98.64it/s]
48%		11695/24500 [02:05<02:25, 88.11it/s]
48%		11705/24500 [02:05<02:23, 89.02it/s]
48%		11718/24500 [02:05<02:12, 96.11it/s]
48%		11729/24500 [02:05<02:12, 96.23it/s]
48%		11739/24500 [02:05<02:14, 94.54it/s]
48%		11749/24500 [02:05<02:15, 94.31it/s]

48% ███████████	11760/24500 [02:05<02:12, 96.27it/s]
48% ███████████	11771/24500 [02:05<02:08, 98.77it/s]
48% ███████████	11781/24500 [02:06<02:11, 96.79it/s]
48% ███████████	11791/24500 [02:06<02:10, 97.21it/s]
48% ███████████	11803/24500 [02:06<02:03, 103.04it/s]
48% ███████████	11819/24500 [02:06<01:56, 109.26it/s]
48% ███████████	11831/24500 [02:06<02:03, 102.70it/s]
48% ███████████	11845/24500 [02:06<01:58, 107.24it/s]
48% ███████████	11856/24500 [02:06<02:00, 104.69it/s]
48% ███████████	11867/24500 [02:06<02:09, 97.31it/s]
48% ███████████	11877/24500 [02:06<02:20, 89.98it/s]
49% ███████████	11890/24500 [02:07<02:10, 96.77it/s]
49% ███████████	11901/24500 [02:07<02:27, 85.51it/s]
49% ███████████	11911/24500 [02:07<02:30, 83.85it/s]
49% ███████████	11920/24500 [02:07<02:34, 81.49it/s]
49% ███████████	11935/24500 [02:07<02:13, 93.91it/s]
49% ███████████	11946/24500 [02:07<02:13, 93.89it/s]
49% ███████████	11956/24500 [02:07<02:38, 78.90it/s]
49% ███████████	11972/24500 [02:08<02:16, 91.75it/s]
49% ███████████	11983/24500 [02:08<02:20, 89.22it/s]
49% ███████████	11995/24500 [02:08<02:09, 96.55it/s]
49% ███████████	12006/24500 [02:08<02:16, 91.20it/s]
49% ███████████	12018/24500 [02:08<02:08, 97.38it/s]
49% ███████████	12030/24500 [02:08<02:00, 103.13it/s]
49% ███████████	12041/24500 [02:08<01:59, 104.20it/s]
49% ███████████	12052/24500 [02:08<02:30, 82.81it/s]
49% ███████████	12064/24500 [02:08<02:18, 89.72it/s]
49% ███████████	12076/24500 [02:09<02:11, 94.82it/s]

49%	12076/24500 [02:09<02:11, 94.83it/s]
49%	12087/24500 [02:09<02:08, 96.65it/s]
49%	12098/24500 [02:09<02:08, 96.68it/s]
49%	12110/24500 [02:09<02:01, 102.34it/s]
49%	12121/24500 [02:09<02:03, 100.05it/s]
50%	12134/24500 [02:09<01:56, 106.60it/s]
50%	12145/24500 [02:09<02:04, 98.98it/s]
50%	12156/24500 [02:09<02:16, 90.34it/s]
50%	12167/24500 [02:10<02:10, 94.50it/s]
50%	12179/24500 [02:10<02:03, 99.38it/s]
50%	12190/24500 [02:10<02:25, 84.82it/s]
50%	12203/24500 [02:10<02:14, 91.52it/s]
50%	12214/24500 [02:10<02:15, 90.71it/s]
50%	12224/24500 [02:10<02:15, 90.64it/s]
50%	12235/24500 [02:10<02:13, 91.97it/s]
50%	12250/24500 [02:10<02:05, 97.88it/s]
50%	12263/24500 [02:11<01:55, 105.68it/s]
50%	12274/24500 [02:11<02:00, 101.07it/s]
50%	12285/24500 [02:11<02:07, 95.49it/s]
50%	12298/24500 [02:11<02:01, 100.47it/s]
50%	12315/24500 [02:11<01:47, 113.12it/s]
50%	12328/24500 [02:11<01:44, 116.38it/s]
50%	12341/24500 [02:11<02:05, 97.14it/s]
50%	12354/24500 [02:11<01:58, 102.69it/s]
50%	12365/24500 [02:11<02:00, 101.11it/s]
51%	12376/24500 [02:12<02:21, 85.39it/s]
51%	12388/24500 [02:12<02:11, 91.83it/s]
51%	12398/24500 [02:12<02:09, 93.16it/s]

51%|

| 12409/24500 [02:12<02:04, 97.45it/s]

51%|

| 12420/24500 [02:12<02:16, 88.66it/s]

51%|

| 12435/24500 [02:12<01:59, 101.03it/s]

51%|

| 12446/24500 [02:12<01:59, 100.73it/s]

51%|

| 12457/24500 [02:12<01:57, 102.20it/s]

51%|

| 12468/24500 [02:13<02:11, 91.66it/s]

51%|

| 12481/24500 [02:13<02:01, 98.86it/s]

51%|

| 12492/24500 [02:13<02:11, 91.01it/s]

51%|

| 12507/24500 [02:13<02:00, 99.78it/s]

51%|

| 12518/24500 [02:13<02:00, 99.80it/s]

51%|

| 12529/24500 [02:13<01:57, 101.46it/s]

51%|

| 12540/24500 [02:13<01:55, 103.14it/s]

51%|

| 12551/24500 [02:13<02:06, 94.42it/s]

51%|

| 12562/24500 [02:14<02:04, 95.60it/s]

51%|

| 12579/24500 [02:14<01:48, 109.68it/s]

51%|

| 12592/24500 [02:14<01:43, 114.55it/s]

51%|

| 12607/24500 [02:14<01:38, 121.28it/s]

52%|

| 12620/24500 [02:14<02:01, 97.91it/s]

52%|

| 12634/24500 [02:14<01:51, 106.72it/s]

52%|

| 12648/24500 [02:14<01:48, 109.54it/s]

52%|

| 12660/24500 [02:14<01:47, 110.64it/s]

52%|

| 12672/24500 [02:15<01:57, 100.85it/s]

52%|

| 12683/24500 [02:15<01:55, 101.91it/s]

52%|

| 12699/24500 [02:15<01:44, 113.21it/s]

52%|

| 12711/24500 [02:15<02:00, 98.10it/s]

52%|

| 12724/24500 [02:15<01:52, 104.44it/s]

52%|

| 12737/24500 [02:15<01:46, 110.94it/s]

52%|

| 12749/24500 [02:15<01:49, 107.64it/s]

52%	12749/24500 [02:13<01:49, 107.64it/s]
52%	12776/24500 [02:15<01:45, 111.45it/s]
52%	12790/24500 [02:16<01:39, 117.75it/s]
52%	12803/24500 [02:16<01:48, 107.47it/s]
52%	12815/24500 [02:16<01:47, 108.91it/s]
52%	12827/24500 [02:16<01:56, 100.32it/s]
52%	12838/24500 [02:16<01:55, 101.14it/s]
52%	12849/24500 [02:16<01:59, 97.17it/s]
52%	12859/24500 [02:16<02:02, 95.18it/s]
53%	12869/24500 [02:16<02:12, 87.46it/s]
53%	12884/24500 [02:17<01:59, 97.27it/s]
53%	12895/24500 [02:17<02:03, 94.05it/s]
53%	12908/24500 [02:17<01:56, 99.19it/s]
53%	12921/24500 [02:17<01:51, 104.27it/s]
53%	12932/24500 [02:17<02:06, 91.38it/s]
53%	12942/24500 [02:17<02:08, 89.73it/s]
53%	12955/24500 [02:17<01:58, 97.65it/s]
53%	12966/24500 [02:17<02:10, 88.47it/s]
53%	12980/24500 [02:17<01:56, 98.67it/s]
53%	12991/24500 [02:18<01:53, 101.05it/s]
53%	13004/24500 [02:18<01:48, 105.98it/s]
53%	13016/24500 [02:18<01:57, 97.48it/s]
53%	13028/24500 [02:18<01:52, 102.05it/s]
53%	13039/24500 [02:18<01:51, 103.22it/s]
53%	13050/24500 [02:18<01:49, 104.82it/s]
53%	13061/24500 [02:18<01:49, 104.23it/s]
53%	13072/24500 [02:18<01:52, 101.80it/s]

53%		13083/24500 [02:19<01:54, 99.70it/s]
53%		13094/24500 [02:19<01:54, 99.79it/s]
53%		13105/24500 [02:19<01:57, 97.14it/s]
54%		13118/24500 [02:19<01:48, 105.09it/s]
54%		13129/24500 [02:19<01:50, 103.18it/s]
54%		13142/24500 [02:19<01:45, 107.59it/s]
54%		13153/24500 [02:19<01:45, 107.26it/s]
54%		13164/24500 [02:19<02:05, 90.29it/s]
54%		13176/24500 [02:19<01:56, 97.52it/s]
54%		13188/24500 [02:20<01:52, 100.72it/s]
54%		13199/24500 [02:20<01:53, 99.38it/s]
54%		13210/24500 [02:20<01:55, 97.41it/s]
54%		13220/24500 [02:20<01:58, 94.86it/s]
54%		13235/24500 [02:20<01:47, 104.41it/s]
54%		13246/24500 [02:20<01:49, 103.11it/s]
54%		13257/24500 [02:20<01:54, 97.86it/s]
54%		13268/24500 [02:20<01:57, 95.25it/s]
54%		13283/24500 [02:20<01:46, 105.45it/s]
54%		13295/24500 [02:21<01:48, 103.70it/s]
54%		13306/24500 [02:21<02:05, 89.30it/s]
54%		13316/24500 [02:21<02:05, 89.37it/s]
54%		13331/24500 [02:21<01:52, 99.63it/s]
54%		13342/24500 [02:21<01:54, 97.83it/s]
55%		13353/24500 [02:21<01:52, 98.95it/s]
55%		13366/24500 [02:21<01:44, 106.53it/s]
55%		13378/24500 [02:21<01:44, 106.19it/s]
55%		13389/24500 [02:22<01:43, 107.30it/s]
55%		13400/24500 [02:22<01:51, 99.28it/s]

55%		13400/24500 [02:22<01:51, 99.28it/s]
55%		13424/24500 [02:22<01:47, 102.73it/s]
55%		13435/24500 [02:22<01:47, 102.91it/s]
55%		13447/24500 [02:22<01:45, 104.73it/s]
55%		13458/24500 [02:22<01:53, 97.47it/s]
55%		13468/24500 [02:22<01:54, 96.31it/s]
55%		13478/24500 [02:22<01:57, 93.90it/s]
55%		13492/24500 [02:23<01:46, 103.05it/s]
55%		13503/24500 [02:23<02:10, 84.27it/s]
55%		13517/24500 [02:23<01:55, 95.17it/s]
55%		13528/24500 [02:23<01:51, 98.32it/s]
55%		13539/24500 [02:23<01:53, 96.68it/s]
55%		13550/24500 [02:23<01:51, 98.04it/s]
55%		13563/24500 [02:23<01:45, 103.48it/s]
55%		13574/24500 [02:23<01:43, 105.33it/s]
55%		13585/24500 [02:23<01:51, 98.03it/s]
55%		13596/24500 [02:24<01:55, 94.55it/s]
56%		13606/24500 [02:24<01:57, 92.41it/s]
56%		13619/24500 [02:24<01:50, 98.87it/s]
56%		13630/24500 [02:24<01:51, 97.62it/s]
56%		13650/24500 [02:24<01:34, 115.32it/s]
56%		13663/24500 [02:24<01:49, 98.53it/s]
56%		13675/24500 [02:24<01:50, 98.32it/s]
56%		13690/24500 [02:24<01:39, 108.77it/s]
56%		13702/24500 [02:25<01:40, 107.20it/s]
56%		13714/24500 [02:25<01:49, 98.21it/s]
56%		13729/24500 [02:25<01:41, 105.69it/s]

56%|

| 13741/24500 [02:25<01:38, 109.39it/s]

56%|

| 13753/24500 [02:25<01:40, 107.05it/s]

56%|

| 13765/24500 [02:25<01:44, 102.51it/s]

56%|

| 13777/24500 [02:25<01:41, 105.30it/s]

56%|

| 13790/24500 [02:25<01:36, 110.61it/s]

56%|

| 13802/24500 [02:26<01:39, 108.00it/s]

56%|

| 13813/24500 [02:26<01:58, 90.48it/s]

56%|

| 13823/24500 [02:26<01:59, 88.99it/s]

56%|

| 13833/24500 [02:26<01:56, 91.85it/s]

57%|

| 13843/24500 [02:26<01:54, 92.91it/s]

57%|

| 13853/24500 [02:26<01:55, 92.38it/s]

57%|

| 13866/24500 [02:26<01:46, 100.15it/s]

57%|

| 13877/24500 [02:26<01:46, 100.21it/s]

57%|

| 13889/24500 [02:26<01:40, 105.31it/s]

57%|

| 13900/24500 [02:27<01:43, 102.56it/s]

57%|

| 13912/24500 [02:27<01:40, 105.48it/s]

57%|

| 13923/24500 [02:27<01:41, 103.83it/s]

57%|

| 13934/24500 [02:27<01:45, 99.82it/s]

57%|

| 13945/24500 [02:27<01:51, 95.02it/s]

57%|

| 13955/24500 [02:27<01:57, 90.11it/s]

57%|

| 13965/24500 [02:27<01:55, 91.41it/s]

57%|

| 13975/24500 [02:27<02:06, 83.15it/s]

57%|

| 13986/24500 [02:27<01:58, 88.70it/s]

57%|

| 13999/24500 [02:28<01:48, 96.36it/s]

57%|

| 14010/24500 [02:28<01:47, 97.24it/s]

57%|

| 14020/24500 [02:28<01:58, 88.51it/s]

57%|

| 14033/24500 [02:28<01:49, 95.57it/s]

57%|

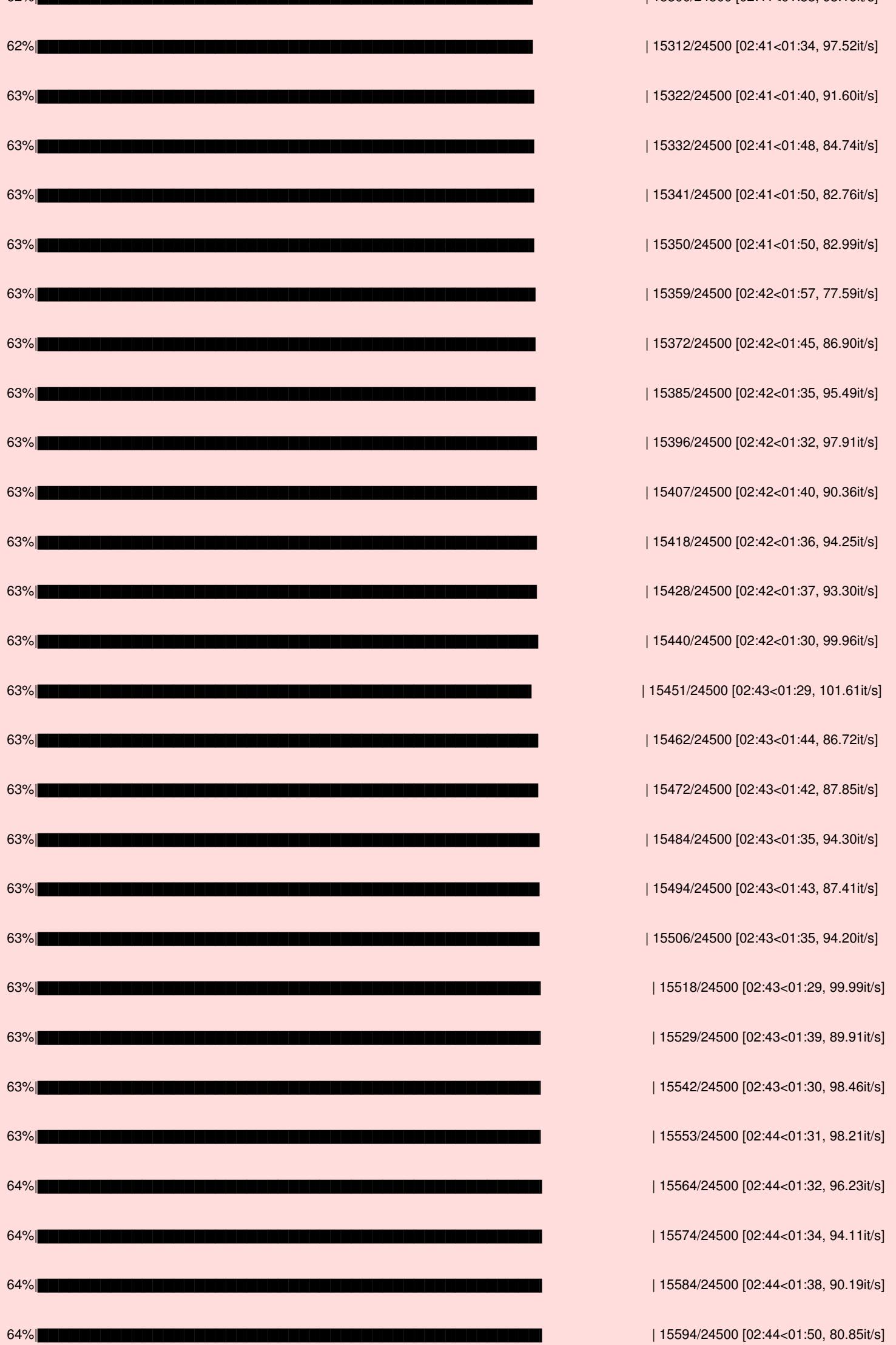
| 14044/24500 [02:28<01:46, 97.97it/s]

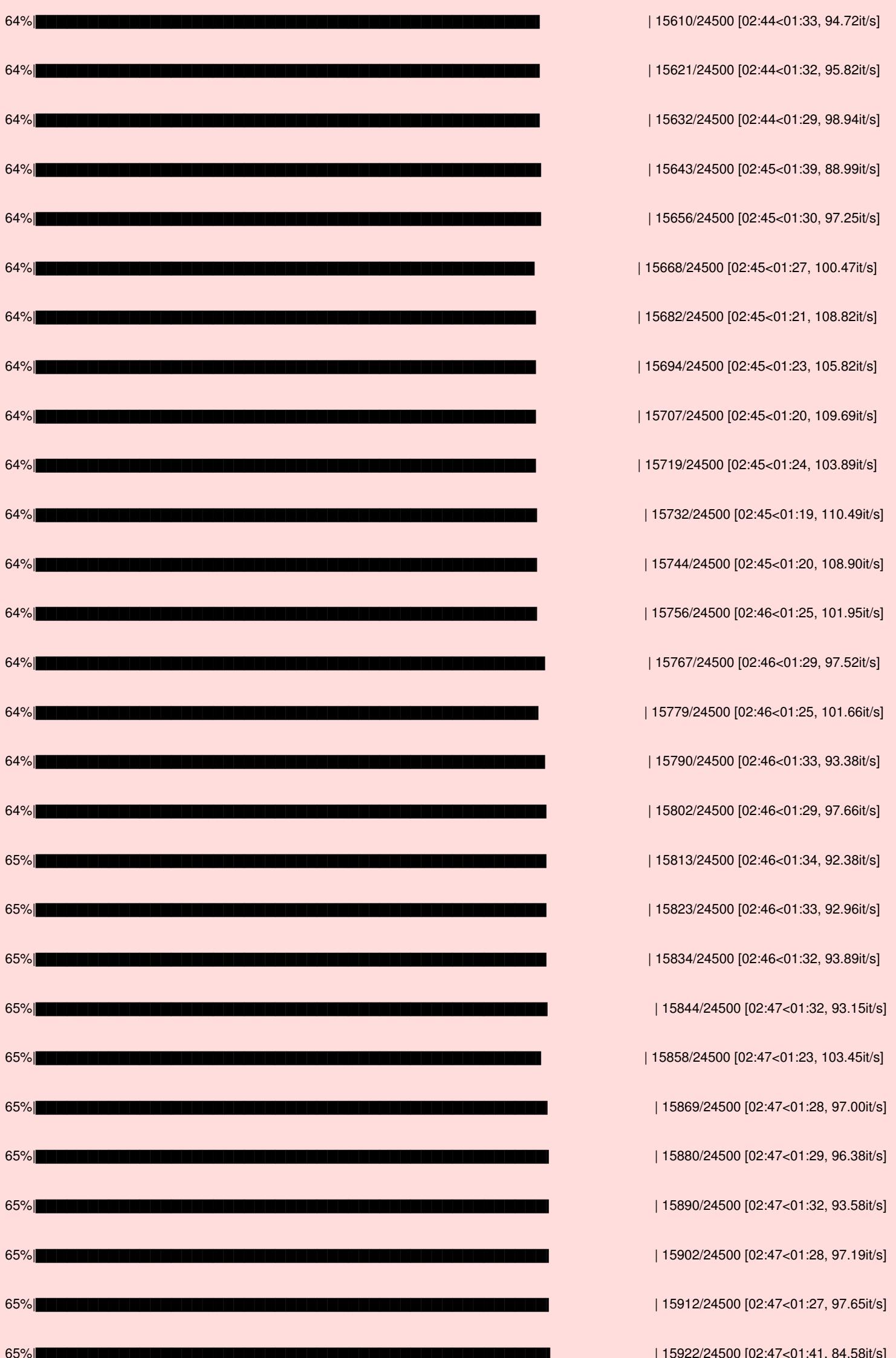
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57%		14055/24500 [02:28<01:48, 96.20it/s]
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58%		14088/24500 [02:29<02:06, 82.26it/s]
58%		14099/24500 [02:29<01:58, 87.66it/s]
58%		14109/24500 [02:29<01:54, 91.01it/s]
58%		14121/24500 [02:29<01:46, 97.33it/s]
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58%		14142/24500 [02:29<01:47, 96.29it/s]
58%		14153/24500 [02:29<01:45, 98.46it/s]
58%		14166/24500 [02:29<01:43, 100.21it/s]
58%		14178/24500 [02:29<01:39, 103.89it/s]
58%		14189/24500 [02:30<01:41, 101.50it/s]
58%		14202/24500 [02:30<01:36, 107.08it/s]
58%		14213/24500 [02:30<01:45, 97.41it/s]
58%		14224/24500 [02:30<01:42, 99.97it/s]
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58%		14255/24500 [02:30<01:49, 93.39it/s]
58%		14265/24500 [02:30<01:48, 94.01it/s]
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58%		14285/24500 [02:31<02:19, 73.15it/s]
58%		14296/24500 [02:31<02:05, 81.10it/s]
58%		14306/24500 [02:31<02:00, 84.94it/s]
58%		14316/24500 [02:31<01:55, 87.85it/s]
58%		14326/24500 [02:31<01:56, 86.96it/s]
59%		14335/24500 [02:31<01:57, 86.83it/s]

59%	14344/24500 [02:31<01:57, 86.15it/s]
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59%	14366/24500 [02:32<01:47, 94.67it/s]
59%	14376/24500 [02:32<01:51, 90.95it/s]
59%	14386/24500 [02:32<01:55, 87.62it/s]
59%	14396/24500 [02:32<02:06, 80.06it/s]
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59%	14425/24500 [02:32<02:02, 82.44it/s]
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59%	14494/24500 [02:33<01:39, 101.01it/s]
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59%	14550/24500 [02:33<01:43, 96.53it/s]
59%	14563/24500 [02:34<01:39, 100.18it/s]
59%	14574/24500 [02:34<01:42, 97.24it/s]
60%	14586/24500 [02:34<01:37, 102.12it/s]
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60%	14661/24500 [02:35<01:44, 94.44it/s]
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60%	14731/24500 [02:35<01:34, 103.40it/s]
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61%	14832/24500 [02:36<01:52, 85.80it/s]
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61%	14862/24500 [02:37<01:39, 97.06it/s]
61%	14873/24500 [02:37<01:41, 95.15it/s]
61%	14884/24500 [02:37<01:42, 94.04it/s]
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61%	14910/24500 [02:37<01:30, 105.82it/s]
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61%	15002/24500 [02:38<01:35, 99.36it/s]
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62%	15073/24500 [02:39<01:40, 94.10it/s]
62%	15088/24500 [02:39<01:29, 105.35it/s]
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62%	15126/24500 [02:39<01:27, 107.08it/s]
62%	15138/24500 [02:39<01:27, 107.47it/s]
62%	15151/24500 [02:39<01:23, 112.27it/s]
62%	15163/24500 [02:39<01:27, 106.44it/s]
62%	15174/24500 [02:40<01:33, 99.42it/s]
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62%	15197/24500 [02:40<01:38, 94.77it/s]
62%	15214/24500 [02:40<01:25, 108.29it/s]
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62%	15237/24500 [02:40<01:32, 100.24it/s]
62%	15248/24500 [02:40<01:30, 101.89it/s]
62%	15259/24500 [02:40<01:33, 98.60it/s]
62%	15270/24500 [02:41<01:38, 93.95it/s]
62%	15280/24500 [02:41<01:43, 88.99it/s]
62%	15290/24500 [02:41<01:40, 92.00it/s]
62%	15300/24500 [02:41<01:38, 93.19it/s]





65%	15933/24500 [02:47<01:34, 90.62it/s]
65%	15945/24500 [02:48<01:28, 96.21it/s]
65%	15955/24500 [02:48<01:36, 88.44it/s]
65%	15965/24500 [02:48<01:42, 83.54it/s]
65%	15976/24500 [02:48<01:34, 90.03it/s]
65%	15988/24500 [02:48<01:28, 96.39it/s]
65%	15999/24500 [02:48<01:29, 95.24it/s]
65%	16009/24500 [02:48<01:31, 92.67it/s]
65%	16022/24500 [02:48<01:24, 100.09it/s]
65%	16033/24500 [02:48<01:22, 102.58it/s]
65%	16044/24500 [02:49<01:24, 100.49it/s]
66%	16060/24500 [02:49<01:15, 112.46it/s]
66%	16075/24500 [02:49<01:11, 117.39it/s]
66%	16088/24500 [02:49<01:17, 109.15it/s]
66%	16100/24500 [02:49<01:24, 99.96it/s]
66%	16111/24500 [02:49<01:26, 96.86it/s]
66%	16122/24500 [02:49<01:27, 95.32it/s]
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66%	16146/24500 [02:50<01:24, 98.72it/s]
66%	16158/24500 [02:50<01:21, 102.65it/s]
66%]	16169/24500 [02:50<01:29, 93.07it/s]
66%]	16182/24500 [02:50<01:21, 101.66it/s]
66%]	16193/24500 [02:50<01:25, 96.89it/s]
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66%]	16214/24500 [02:50<01:32, 89.42it/s]
66%]	16227/24500 [02:50<01:24, 97.49it/s]

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66%	16265/24500 [02:51<01:23, 98.55it/s]
66%	16276/24500 [02:51<01:21, 101.24it/s]
66%	16287/24500 [02:51<01:19, 103.21it/s]
67%	16298/24500 [02:51<01:20, 101.60it/s]
67%	16309/24500 [02:51<01:25, 96.04it/s]
67%	16319/24500 [02:51<01:41, 80.61it/s]
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67%	16346/24500 [02:52<01:44, 78.25it/s]
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67%	16375/24500 [02:52<01:43, 78.59it/s]
67%	16390/24500 [02:52<01:29, 90.89it/s]
67%	16401/24500 [02:52<01:31, 88.77it/s]
67%	16411/24500 [02:52<01:29, 89.96it/s]
67%	16424/24500 [02:53<01:22, 97.94it/s]
67% s]	16437/24500 [02:53<01:17, 104.18it/s]
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67% s]	16462/24500 [02:53<01:13, 109.94it/s]

67% [redacted] s]	16475/24500 [02:53<01:09, 115.05it/
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67% [redacted] s]	16499/24500 [02:53<01:16, 104.58it/
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69% t/s]	16828/24500 [02:57<01:21, 93.60i
69% t/s]	16838/24500 [02:57<01:30, 84.20i
69% t/s]	16849/24500 [02:57<01:25, 89.31i
69% t/s]	16862/24500 [02:57<01:17, 97.96i
69% /s]	16875/24500 [02:57<01:12, 105.46it
69% t/s]	16887/24500 [02:58<01:29, 85.11i
69% t/s]	16899/24500 [02:58<01:22, 91.60i
69% t/s]	16910/24500 [02:58<01:19, 95.01i
69%	16921/24500 [02:58<01:25, 89.05i

t/s]	16931/24500 [02:58<01:23, 90.15i
69% t/s]	16943/24500 [02:58<01:19, 95.56i
69% t/s]	16953/24500 [02:58<01:21, 92.20i
69% t/s]	16963/24500 [02:58<01:21, 92.80i
69% t/s]	16973/24500 [02:59<01:37, 76.84i
69% t/s]	16983/24500 [02:59<01:31, 82.16i
69% t/s]	16993/24500 [02:59<01:29, 83.54i
69% t/s]	17002/24500 [02:59<01:32, 81.16i
69% t/s]	17017/24500 [02:59<01:20, 93.46i
70% it/s]	17031/24500 [02:59<01:12, 103.49
70% it/s]	17043/24500 [02:59<01:10, 105.93
70% t/s]	17055/24500 [02:59<01:20, 92.13i
70% t/s]	17066/24500 [03:00<01:16, 96.81i
70% t/s]	17077/24500 [03:00<01:19, 92.82i
70% t/s]	17090/24500 [03:00<01:14, 99.19i
70% it/s]	17102/24500 [03:00<01:11, 103.47
70% t/s]	17113/24500 [03:00<01:31, 80.82i
70% t/s]	17125/24500 [03:00<01:22, 88.89i
70% 0it/s]	17137/24500 [03:00<01:20, 91.6
70% 8it/s]	17147/24500 [03:00<01:38, 74.7

70%|
3it/s]

| 17157/24500 [03:01<01:31, 80.1

70%|
7it/s]

| 17166/24500 [03:01<01:52, 65.0

70%|
7it/s]

| 17179/24500 [03:01<01:36, 76.1

70%|
8it/s]

| 17190/24500 [03:01<01:27, 83.5

70%|
2it/s]

| 17200/24500 [03:01<01:26, 84.4

70%|
6it/s]

| 17210/24500 [03:01<01:23, 87.4

70%|
8it/s]

| 17220/24500 [03:01<01:24, 86.4

70%|
6it/s]

| 17230/24500 [03:01<01:32, 78.3

70%|
9it/s]

| 17243/24500 [03:02<01:23, 87.3

70%|
8it/s]

| 17255/24500 [03:02<01:16, 94.2

70%|
it/s]

| 17268/24500 [03:02<01:11, 101.61

71%|
it/s]

| 17280/24500 [03:02<01:10, 102.10

71%|
it/s]

| 17295/24500 [03:02<01:04, 112.32

71%|
it/s]

| 17307/24500 [03:02<01:06, 108.52

71%|
it/s]

| 17319/24500 [03:02<01:04, 111.51

71%|
it/s]

| 17332/24500 [03:02<01:02, 114.89

71%|
it/s]

| 17345/24500 [03:02<01:01, 116.71

71%|
9it/s]

| 17357/24500 [03:03<01:03, 113.1

71%|
3it/s]

| 17372/24500 [03:03<00:58, 121.9

71%|
2it/s]

| 17387/24500 [03:03<00:55, 129.1

71%|
9it/s]

| 17401/24500 [03:03<01:02, 113.2

71%|
1it/s]

| 17413/24500 [03:03<01:09, 102.3

71%|
6it/s]

| 17424/24500 [03:03<01:23, 84.8

71%|
6it/s]

| 17435/24500 [03:03<01:19, 89.0

71%|
9it/s]

| 17446/24500 [03:03<01:16, 91.6

71%|
3it/s]

| 17460/24500 [03:04<01:09, 101.3

71%|
9it/s]

| 17471/24500 [03:04<01:11, 97.7

71%|
2it/s]

| 17482/24500 [03:04<01:14, 94.2

71%|
3it/s]

| 17492/24500 [03:04<01:14, 93.9

71%|
3it/s]

| 17502/24500 [03:04<01:17, 89.8

71%|
4it/s]

| 17513/24500 [03:04<01:13, 94.6

72%|
5it/s]

| 17523/24500 [03:04<01:14, 93.4

72%|
3it/s]

| 17535/24500 [03:04<01:10, 98.9

72%|
9it/s]

| 17546/24500 [03:04<01:09, 99.4

72%|
9it/s]

| 17557/24500 [03:05<01:14, 93.0

72%|
3it/s]

| 17568/24500 [03:05<01:11, 96.7

72%|
8it/s]

| 17578/24500 [03:05<01:16, 90.6

72%|
5it/s]

| 17588/24500 [03:05<01:14, 92.6

72%|
3it/s]

| 17601/24500 [03:05<01:08, 100.9

72%|
6it/s]

| 17615/24500 [03:05<01:03, 108.7

72%|
0it/s]

| 17627/24500 [03:05<01:05, 105.4

72%|

| 17643/24500 [03:05<00:59, 115.9

72% 6it/s]	17643/24500 [03:05<00:59, 115.9
72% 4it/s]	17658/24500 [03:05<00:56, 121.7
72% 94it/s]	17667/24500 [03:06<01:09, 98.4
72% 3it/s]	17685/24500 [03:06<01:04, 104.
72% 7it/s]	17697/24500 [03:06<01:11, 95.6
72% 1it/s]	17708/24500 [03:06<01:15, 90.0
72% 2it/s]	17721/24500 [03:06<01:09, 97.0
72% 3it/s]	17732/24500 [03:06<01:16, 88.0
72% 8it/s]	17743/24500 [03:06<01:12, 93.2
73% 9it/s]	17754/24500 [03:07<01:09, 97.6
73% 27it/s]	17765/24500 [03:07<01:12, 93.2
73% 97it/s]	17776/24500 [03:07<01:09, 96.
73% 99it/s]	17787/24500 [03:07<01:07, 99.
73% 91it/s]	17799/24500 [03:07<01:07, 99.
73% 40it/s]	17810/24500 [03:07<01:10, 94.
73% 97it/s]	17820/24500 [03:07<01:19, 84.
73% 03it/s]	17831/24500 [03:07<01:15, 87.
73% 85it/s]	17841/24500 [03:07<01:15, 88.
73% 09it/s]	17850/24500 [03:08<01:19, 83.
73% 21it/s]	17862/24500 [03:08<01:12, 91.
	17872/24500 [03:08<01:15, 88.

73%|
60it/s]

| 17882/24500 [03:08<01:14, 88.

73%|
11it/s]

| 17892/24500 [03:08<01:21, 81.

73%|
09it/s]

| 17901/24500 [03:08<01:21, 81.

73%|
14it/s]

| 17911/24500 [03:08<01:18, 84.

73%|
53it/s]

| 17927/24500 [03:08<01:07, 97.

73%|
60it/s]

| 17938/24500 [03:09<01:32, 70.

73%|
58it/s]

| 17947/24500 [03:09<01:35, 68.

73%|
92it/s]

| 17956/24500 [03:09<01:30, 71.

73%|
27it/s]

| 17965/24500 [03:09<01:27, 74.

73%|
14it/s]

| 17974/24500 [03:09<01:29, 73.

73%|
68it/s]

| 17982/24500 [03:09<01:42, 63.

73%|
68it/s]

| 17991/24500 [03:09<01:33, 69.

73%|
92it/s]

| 17999/24500 [03:10<01:38, 65.

74%|
70it/s]

| 18011/24500 [03:10<01:26, 74.

74%|
70it/s]

| 18020/24500 [03:10<01:38, 65.

74%|
27it/s]

| 18029/24500 [03:10<01:32, 70.

74%|
71it/s]

| 18038/24500 [03:10<01:26, 74.

74%|
84it/s]

| 18046/24500 [03:10<01:35, 67.

74%|
18it/s]

| 18054/24500 [03:10<01:40, 64.

74%|
92it/s]

| 18061/24500 [03:11<02:06, 50.

74%|
97it/s]

| 18067/24500 [03:11<02:08, 49.

57it/s]	18074/24500 [03:11<01:57, 54.
74% 79it/s]	18082/24500 [03:11<01:49, 58.
74% 94it/s]	18092/24500 [03:11<01:37, 65.
74% 7.13it/s]	18100/24500 [03:11<01:35, 6
74% 4.44it/s]	18108/24500 [03:11<01:39, 6
74% 5.33it/s]	18115/24500 [03:11<01:37, 6
74% 0.16it/s]	18124/24500 [03:11<01:30, 7
74% 8.33it/s]	18135/24500 [03:12<01:21, 7
74% 9.78it/s]	18144/24500 [03:12<01:19, 7
74% 8.24it/s]	18153/24500 [03:12<01:21, 7
74% 4.94it/s]	18164/24500 [03:12<01:14, 8
74% 1.80it/s]	18173/24500 [03:12<01:17, 8
74% 6.04it/s]	18182/24500 [03:12<01:23, 7
74% 0.40it/s]	18192/24500 [03:12<01:18, 8
74% 4.62it/s]	18202/24500 [03:12<01:14, 8
74% 7.61it/s]	18212/24500 [03:12<01:11, 8
74% 2.11it/s]	18221/24500 [03:13<01:16, 8
74% 2.54it/s]	18230/24500 [03:13<01:15, 8
74% 3.61it/s]	18244/24500 [03:13<01:06, 9
75% 2.35it/s]	18254/24500 [03:13<01:07, 9

75% 2.36it/s]	18264/24500 [03:13<01:07, 9
75% 2.72it/s]	18274/24500 [03:13<01:07, 9
75% .06it/s]	18288/24500 [03:13<01:02, 100
75% 3.49it/s]	18299/24500 [03:13<01:06, 9
75% 7.99it/s]	18309/24500 [03:14<01:10, 8
75% 4.55it/s]	18321/24500 [03:14<01:05, 9
75% 6.53it/s]	18332/24500 [03:14<01:03, 9
75% 0.05it/s]	18343/24500 [03:14<01:01, 10
75% 2.36it/s]	18354/24500 [03:14<01:06, 9
75% 8.98it/s]	18366/24500 [03:14<01:01, 9
75% 5.61it/s]	18379/24500 [03:14<00:57, 10
75% 7.57it/s]	18391/24500 [03:14<00:56, 10
75% 7.91it/s]	18403/24500 [03:14<01:02, 9
75% 3.46it/s]	18414/24500 [03:15<01:05, 9
75% 97.08it/s]	18425/24500 [03:15<01:02,
75% 93.23it/s]	18435/24500 [03:15<01:05,
75% 80.25it/s]	18445/24500 [03:15<01:15,
75% 86.17it/s]	18456/24500 [03:15<01:10,
75% 84.60it/s]	18466/24500 [03:15<01:11,
75% 95.86it/s]	18480/24500 [03:15<01:02,
75% 88.27it/s]	18491/24500 [03:15<01:08,

76% 91.31it/s]	18501/24500 [03:16<01:05,
76% 89.31it/s]	18511/24500 [03:16<01:07,
76% 88.20it/s]	18521/24500 [03:16<01:07,
76% 88.47it/s]	18531/24500 [03:16<01:07,
76% 78.37it/s]	18541/24500 [03:16<01:16,
76% 75.97it/s]	18550/24500 [03:16<01:18,
76% 76.61it/s]	18558/24500 [03:16<01:17,
76% 82.42it/s]	18569/24500 [03:16<01:11,
76% 87.03it/s]	18580/24500 [03:16<01:08,
76% 79.55it/s]	18589/24500 [03:17<01:14,
76% 84.71it/s]	18599/24500 [03:17<01:09,
76% 83.79it/s]	18608/24500 [03:17<01:10,
76% 87.85it/s]	18619/24500 [03:17<01:06,
76% 93.59it/s]	18631/24500 [03:17<01:02,
76% 90.53it/s]	18641/24500 [03:17<01:04,
76% 95.43it/s]	18652/24500 [03:17<01:01,
76% 95.32it/s]	18663/24500 [03:17<01:01,
76% 93.75it/s]	18674/24500 [03:17<01:02,
76% 90.81it/s]	18684/24500 [03:18<01:04,
76% 90.78it/s]	18694/24500 [03:18<01:03,
76%	18704/24500 [03:18<01:05,

88.95it/s]

76%| [REDACTED] | 18714/24500 [03:18<01:04,
89.84it/s]

76%| [REDACTED] | 18724/24500 [03:18<01:07,
85.17it/s]

76%| [REDACTED] | 18737/24500 [03:18<01:00,
94.86it/s]

77%| [REDACTED] | 18747/24500 [03:18<01:05,
87.29it/s]

77%| [REDACTED] | 18757/24500 [03:18<01:07,
85.32it/s]

77%| [REDACTED] | 18766/24500 [03:19<01:09,
82.68it/s]

77%| [REDACTED] | 18779/24500 [03:19<01:02,
90.87it/s]

77%| [REDACTED] | 18789/24500 [03:19<01:02,
90.90it/s]

77%| [REDACTED] | 18802/24500 [03:19<00:57,
99.02it/s]

77%| [REDACTED] | 18814/24500 [03:19<00:54, 1
04.40it/s]

77%| [REDACTED] | 18825/24500 [03:19<00:57,
98.69it/s]

77%| [REDACTED] | 18836/24500 [03:19<00:58,
96.52it/s]

77%| [REDACTED] | 18848/24500 [03:19<00:55, 1
01.52it/s]

77%| [REDACTED] | 18861/24500 [03:19<00:53, 1
05.92it/s]

77%| [REDACTED] | 18872/24500 [03:20<01:01,
91.27it/s]

77%| [REDACTED] | 18882/24500 [03:20<01:02,
89.58it/s]

77%| [REDACTED] | 18892/24500 [03:20<01:09,
81.05it/s]

77%| [REDACTED] | 18901/24500 [03:20<01:07,
82.84it/s]

77%| [REDACTED] | 18915/24500 [03:20<01:00,
92.42it/s]

77%| [REDACTED] | 18925/24500 [03:20<01:00,
92.67it/s]



78% , 79.78it/s]	19174/24500 [03:23<01:06
78% , 78.35it/s]	19183/24500 [03:23<01:07
78% , 89.80it/s]	19197/24500 [03:23<00:59
78% , 85.11it/s]	19207/24500 [03:23<01:02
78% , 91.84it/s]	19219/24500 [03:23<00:57
78% , 98.42it/s]	19232/24500 [03:23<00:53
79% , 98.12it/s]	19243/24500 [03:24<00:53
79% , 93.39it/s]	19254/24500 [03:24<00:56
79% , 92.82it/s]	19264/24500 [03:24<00:56
79% , 85.88it/s]	19274/24500 [03:24<01:00
79% , 87.35it/s]	19284/24500 [03:24<00:59
79% , 78.29it/s]	19293/24500 [03:24<01:06
79% , 80.01it/s]	19302/24500 [03:24<01:04
79% , 77.79it/s]	19311/24500 [03:24<01:06
79% , 76.48it/s]	19319/24500 [03:24<01:07
79% , 76.68it/s]	19327/24500 [03:25<01:07
79% , 82.09it/s]	19337/24500 [03:25<01:02
79% , 88.06it/s]	19348/24500 [03:25<00:58
79% , 85.55it/s]	19358/24500 [03:25<01:00
79% , 77.90it/s]	19367/24500 [03:25<01:05
79%	19377/24500 [03:25<01:02

, 81.60it/s]

, 100.77±1.00 [03.25<01.0

79%||
0, 85.04it/s]

| 19387/24500 [03:25<01:0

79%||
4, 92.86it/s]

| 19400/24500 [03:25<00:5

79%||
5, 91.31it/s]

| 19410/24500 [03:25<00:5

79%||
2, 96.10it/s]

| 19421/24500 [03:26<00:5

79%||
3, 95.55it/s]

| 19431/24500 [03:26<00:5

79%||
3, 94.16it/s]

| 19441/24500 [03:26<00:5

79%||
5, 90.63it/s]

| 19451/24500 [03:26<00:5

79%||
1, 97.81it/s]

| 19463/24500 [03:26<00:5

79%||
3, 94.24it/s]

| 19474/24500 [03:26<00:5

80%||
9, 84.99it/s]

| 19484/24500 [03:26<00:5

80%||
6, 88.59it/s]

| 19494/24500 [03:26<00:5

80%||
5, 90.31it/s]

| 19504/24500 [03:26<00:5

80%||
2, 94.52it/s]

| 19515/24500 [03:27<00:5

80%||
0, 98.69it/s]

| 19527/24500 [03:27<00:5

80%||
9, 99.63it/s]

| 19538/24500 [03:27<00:4

80%||
102.29it/s]

| 19549/24500 [03:27<00:48,

80%||
101.25it/s]

| 19560/24500 [03:27<00:48,

80%||
100.70it/s]

| 19571/24500 [03:27<00:48,

80%||
103.88it/s]

| 19583/24500 [03:27<00:47,

80%||
102.50it/s]

| 19594/24500 [03:27<00:47,

80% [4, 89.22it/s]	19605/24500 [03:28<00:5
80% [8, 83.66it/s]	19615/24500 [03:28<00:5
80% [5, 87.36it/s]	19625/24500 [03:28<00:5
80% [0, 96.85it/s]	19638/24500 [03:28<00:5
80% [0, 95.21it/s]	19649/24500 [03:28<00:5
80% [1, 93.98it/s]	19659/24500 [03:28<00:5
80% [5, 87.05it/s]	19669/24500 [03:28<00:5
80% [0, 96.22it/s]	19683/24500 [03:28<00:5
80% [7, 100.76it/s]	19696/24500 [03:28<00:4
80% [50, 95.08it/s]	19707/24500 [03:29<00:
80% [53, 88.79it/s]	19717/24500 [03:29<00:
81% [48, 97.62it/s]	19731/24500 [03:29<00:
81% [6, 102.39it/s]	19743/24500 [03:29<00:4
81% [53, 89.24it/s]	19754/24500 [03:29<00:
81% [52, 90.15it/s]	19764/24500 [03:29<00:
81% [49, 96.20it/s]	19776/24500 [03:29<00:
81% [48, 96.55it/s]	19787/24500 [03:29<00:
81% [53, 87.98it/s]	19797/24500 [03:30<00:
81% [52, 89.87it/s]	19807/24500 [03:30<00:
81% [56, 83.28it/s]	19817/24500 [03:30<00:
81% [50, 92.60it/s]	19830/24500 [03:30<00:

81% [52, 88.73it/s]	19840/24500 [03:30<00:
81% [47, 97.93it/s]	19854/24500 [03:30<00:
81% [5, 101.03it/s]	19866/24500 [03:30<00:4
81% [46, 99.58it/s]	19877/24500 [03:30<00:
81% [51, 88.72it/s]	19888/24500 [03:31<00:
81% [54, 83.90it/s]	19898/24500 [03:31<00:
81% [49, 92.65it/s]	19911/24500 [03:31<00:
81% [5, 101.34it/s]	19924/24500 [03:31<00:4
81% [4, 102.80it/s]	19935/24500 [03:31<00:4
81% [3, 105.59it/s]	19947/24500 [03:31<00:4
81% [4, 101.59it/s]	19958/24500 [03:31<00:4
82% [2, 105.45it/s]	19970/24500 [03:31<00:4
82% [45, 98.55it/s]	19981/24500 [03:31<00:
82% [3, 102.74it/s]	19993/24500 [03:32<00:4
82% [2, 106.73it/s]	20005/24500 [03:32<00:4
82% [44, 99.87it/s]	20016/24500 [03:32<00:
82% [47, 94.59it/s]	20027/24500 [03:32<00:
82% [45, 97.50it/s]	20038/24500 [03:32<00:
82% [2, 104.21it/s]	20051/24500 [03:32<00:4
82% [1, 106.93it/s]	20063/24500 [03:32<00:4

82% :49, 107.77it/s]	20074/24500 [03:32<00:4
82% :49, 89.09it/s]	20085/24500 [03:32<00
82% :49, 89.54it/s]	20095/24500 [03:33<00
82% :48, 89.94it/s]	20105/24500 [03:33<00
82% :52, 83.53it/s]	20115/24500 [03:33<00
82% :49, 87.76it/s]	20126/24500 [03:33<00
82% :46, 94.34it/s]	20138/24500 [03:33<00
82% 3, 100.64it/s]	20150/24500 [03:33<00:4
82% 2, 103.07it/s]	20161/24500 [03:33<00:4
82% :47, 91.30it/s]	20172/24500 [03:33<00
82% :44, 97.84it/s]	20184/24500 [03:33<00
82% :44, 96.10it/s]	20195/24500 [03:34<00
82% :44, 97.03it/s]	20205/24500 [03:34<00
83% 0, 105.73it/s]	20219/24500 [03:34<00:4
83% 2, 100.34it/s]	20230/24500 [03:34<00:4
83% 0, 105.68it/s]	20243/24500 [03:34<00:4
83% 6, 116.58it/s]	20259/24500 [03:34<00:3
83% :44, 95.41it/s]	20272/24500 [03:34<00
83% :46, 91.50it/s]	20283/24500 [03:34<00
83% :45, 93.03it/s]	20293/24500 [03:35<00
83% :44, 94.89it/s]	20304/24500 [03:35<00

83%||
:50, 82.92it/s]

| 20314/24500 [03:35<00

83%||
:46, 89.51it/s]

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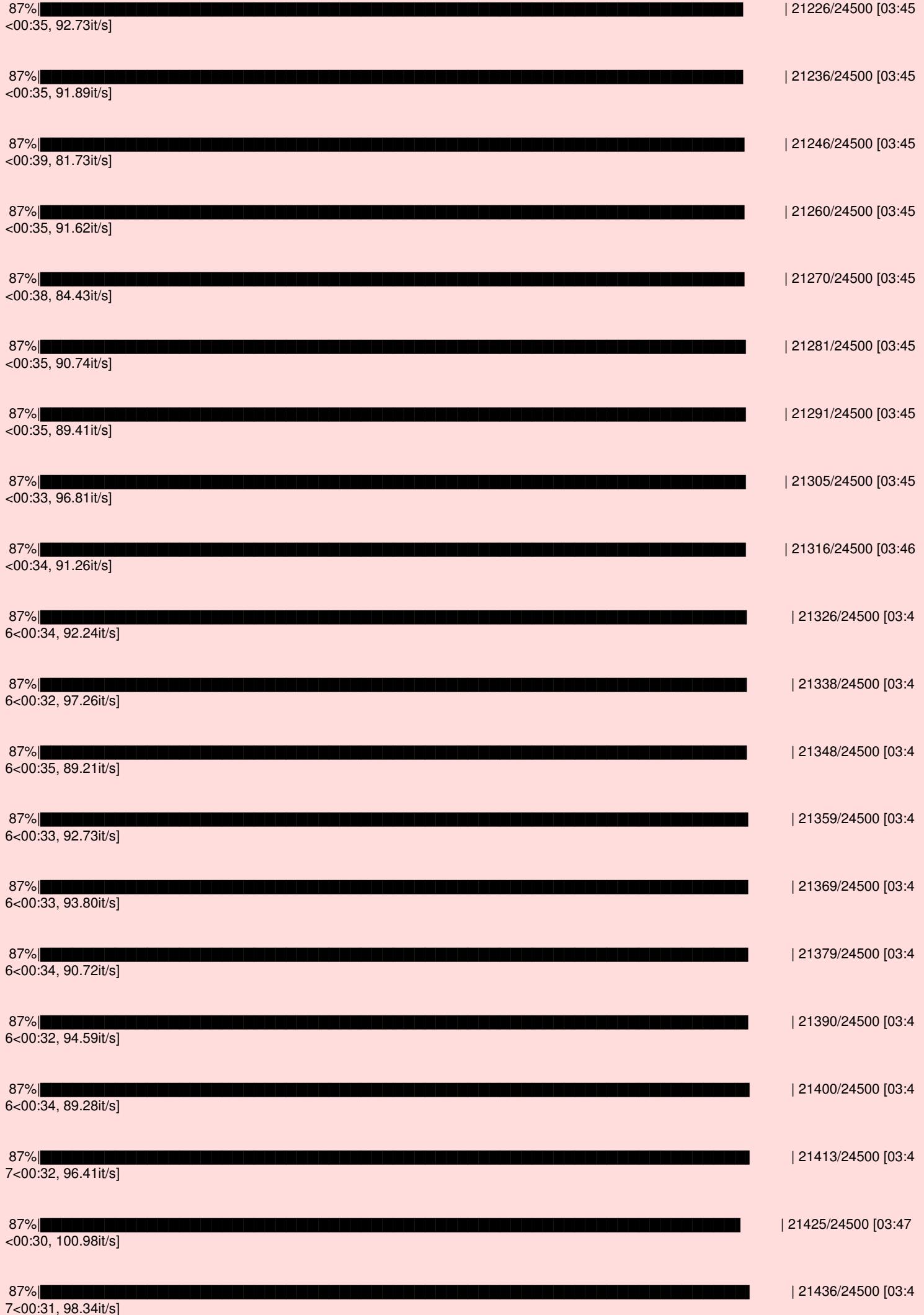
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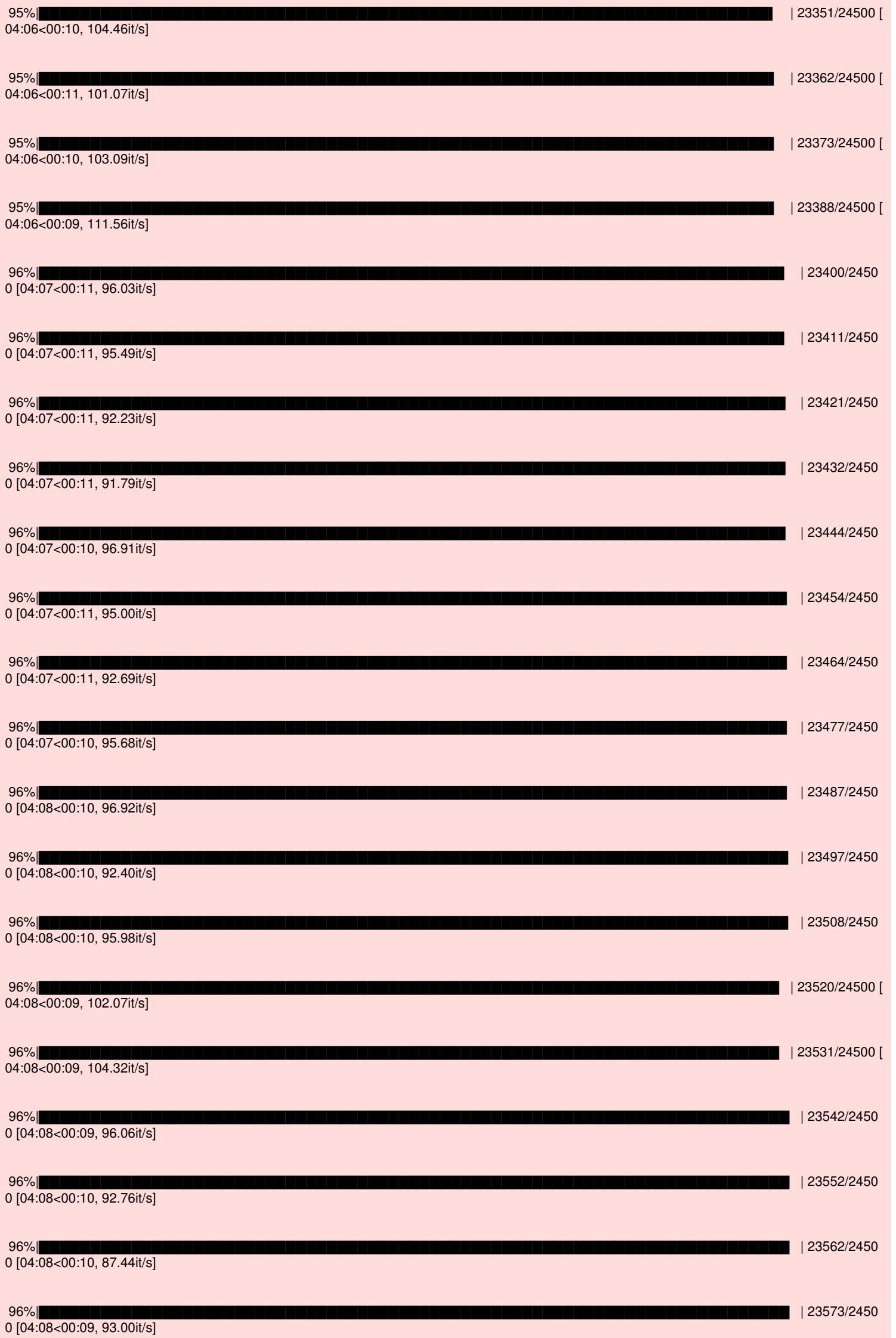
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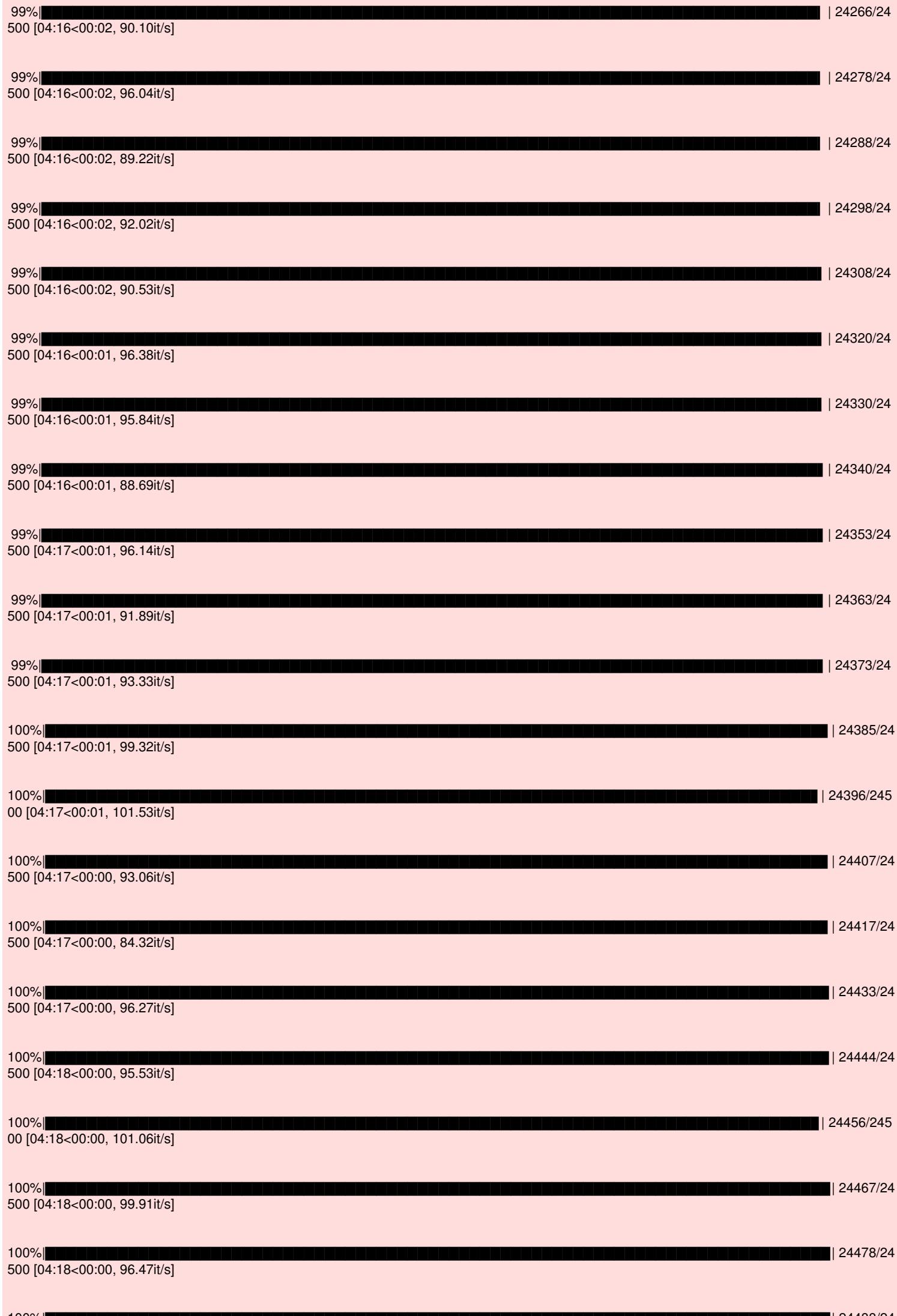
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 0.16568569 -0.25702399]
```

In [296]:

```
i=0
list_of_sentance_cv_essay=[]
for sentance in (X_cv_df['Preprocessed_Essay'].values):
    list_of_sentance_cv_essay.append(sentance.split())

sent_vectors_cv_essay = [] # the avg-w2v for each sentence/review is stored in this list
for sent in tqdm(list_of_sentance_cv_essay): # for each review/sentence
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words =0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words1:
            vec = w2v_model1.wv[word]
            sent_vec += vec
            cnt_words += 1
        if cnt_words != 0:
            sent_vec /= cnt_words
    sent_vectors_cv_essay.append(sent_vec)
sent_vectors_cv_essay = np.array(sent_vectors_cv_essay)
print(sent_vectors_cv_essay.shape)
print(sent_vectors_cv_essay[0])
```

0% | 0/10500 [00:00<?, ?it/s]

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0% | 30/10500 [00:00<01:09, 149.59it/s]

0% | 38/10500 [00:00<01:54, 91.53it/s]

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1% | 66/10500 [00:00<02:00, 86.94it/s]

1% | 75/10500 [00:00<02:09, 80.61it/s]

1% | 83/10500 [00:00<02:18, 75.43it/s]

1% | 91/10500 [00:01<02:17, 75.91it/s]

1% | 99/10500 [00:01<02:15, 76.60it/s]

1% | 109/10500 [00:01<02:06, 82.00it/s]

1% █	118/10500 [00:01<02:11, 79.07it/s]
1% █	132/10500 [00:01<01:57, 88.02it/s]
1% █	142/10500 [00:01<02:20, 73.80it/s]
1% █	151/10500 [00:01<02:15, 76.63it/s]
2% █	163/10500 [00:01<02:00, 85.54it/s]
2% █	173/10500 [00:02<02:02, 84.05it/s]
2% █	182/10500 [00:02<02:08, 80.28it/s]
2% █	191/10500 [00:02<02:20, 73.24it/s]
2% █	199/10500 [00:02<02:19, 73.91it/s]
2% █	214/10500 [00:02<01:58, 86.48it/s]
2% █	224/10500 [00:02<01:54, 89.71it/s]
2% █	234/10500 [00:02<01:52, 91.54it/s]
2% █	244/10500 [00:02<02:00, 84.92it/s]
2% █	255/10500 [00:02<01:52, 90.76it/s]
3% █	267/10500 [00:03<01:45, 97.18it/s]
3% █	278/10500 [00:03<01:48, 94.46it/s]
3% █	288/10500 [00:03<01:51, 91.90it/s]
3% █	298/10500 [00:03<02:09, 78.94it/s]
3% █	308/10500 [00:03<02:04, 82.12it/s]
3% █	318/10500 [00:03<01:59, 85.41it/s]
3% █	331/10500 [00:03<01:49, 93.19it/s]
3% █	341/10500 [00:03<02:04, 81.61it/s]
3% █	355/10500 [00:04<01:49, 93.03it/s]
3% █	366/10500 [00:04<01:43, 97.44it/s]
4% █	377/10500 [00:04<01:48, 92.92it/s]
4% █	388/10500 [00:04<01:43, 97.41it/s]
4% █	399/10500 [00:04<01:55, 87.70it/s]
4% █	409/10500 [00:04<02:00, 84.03it/s]

4% ██████	420/10500 [00:04<01:53, 88.96it/s]
4% ██████	431/10500 [00:04<01:47, 93.48it/s]
4% ██████	442/10500 [00:04<01:45, 95.29it/s]
4% ██████	453/10500 [00:05<01:42, 98.15it/s]
4% ██████	464/10500 [00:05<01:42, 97.98it/s]
5% █████	474/10500 [00:05<01:44, 96.38it/s]
5% █████	484/10500 [00:05<01:46, 94.42it/s]
5% █████	496/10500 [00:05<01:41, 98.39it/s]
5% █████	506/10500 [00:05<01:42, 97.71it/s]
5% █████	516/10500 [00:05<01:52, 88.92it/s]
5% █████	526/10500 [00:05<01:51, 89.50it/s]
5% █████	536/10500 [00:05<01:51, 89.09it/s]
5% █████	548/10500 [00:06<01:45, 94.29it/s]
5% █████	558/10500 [00:06<01:52, 88.23it/s]
5% █████	570/10500 [00:06<01:48, 91.77it/s]
6% █████	580/10500 [00:06<01:55, 85.71it/s]
6% █████	589/10500 [00:06<01:56, 85.06it/s]
6% █████	602/10500 [00:06<01:45, 93.93it/s]
6% █████	614/10500 [00:06<01:39, 99.55it/s]
6% █████	625/10500 [00:06<01:47, 91.56it/s]
6% █████	635/10500 [00:07<01:46, 92.32it/s]
6% █████	648/10500 [00:07<01:38, 100.47it/s]
6% █████	659/10500 [00:07<01:42, 96.21it/s]
6% █████	669/10500 [00:07<01:47, 91.77it/s]
6% █████	679/10500 [00:07<01:45, 93.12it/s]
7% █████	693/10500 [00:07<01:36, 101.88it/s]
7% █████	704/10500 [00:07<01:49, 89.54it/s]

7%	[REDACTED]	716/10500 [00:07<01:44, 93.37it/s]
7%	[REDACTED]	726/10500 [00:07<01:47, 90.93it/s]
7%	[REDACTED]	738/10500 [00:08<01:40, 96.93it/s]
7%	[REDACTED]	749/10500 [00:08<01:39, 97.78it/s]
7%	[REDACTED]	762/10500 [00:08<01:32, 104.87it/s]
7%	[REDACTED]	774/10500 [00:08<01:30, 107.82it/s]
7%	[REDACTED]	786/10500 [00:08<01:36, 100.23it/s]
8%	[REDACTED]	797/10500 [00:08<01:36, 101.00it/s]
8%	[REDACTED]	808/10500 [00:08<01:34, 102.64it/s]
8%	[REDACTED]	819/10500 [00:08<01:52, 85.96it/s]
8%	[REDACTED]	829/10500 [00:09<01:54, 84.19it/s]
8%	[REDACTED]	839/10500 [00:09<01:49, 88.34it/s]
8%	[REDACTED]	849/10500 [00:09<01:49, 87.79it/s]
8%	[REDACTED]	861/10500 [00:09<01:43, 93.24it/s]
8%	[REDACTED]	871/10500 [00:09<01:41, 95.13it/s]
8%	[REDACTED]	881/10500 [00:09<01:48, 88.90it/s]
9%	[REDACTED]	894/10500 [00:09<01:40, 95.99it/s]
9%	[REDACTED]	910/10500 [00:09<01:28, 108.17it/s]
9%	[REDACTED]	922/10500 [00:09<01:37, 97.85it/s]
9%	[REDACTED]	934/10500 [00:10<01:32, 103.51it/s]
9%	[REDACTED]	952/10500 [00:10<01:21, 117.30it/s]
9%	[REDACTED]	965/10500 [00:10<01:33, 101.58it/s]
9%	[REDACTED]	977/10500 [00:10<01:58, 80.64it/s]
9%	[REDACTED]	988/10500 [00:10<01:49, 86.78it/s]
10%	[REDACTED]	1000/10500 [00:10<01:42, 93.05it/s]
10%	[REDACTED]	1011/10500 [00:10<01:48, 87.21it/s]
10%	[REDACTED]	1021/10500 [00:11<01:46, 89.30it/s]
10%	[REDACTED]	1031/10500 [00:11<01:48, 87.49it/s]

10%	[REDACTED]	1041/10500 [00:11<01:50, 85.61it/s]
10%	[REDACTED]	1055/10500 [00:11<01:37, 96.63it/s]
10%	[REDACTED]	1069/10500 [00:11<01:30, 104.34it/s]
10%	[REDACTED]	1081/10500 [00:11<01:29, 105.47it/s]
10%	[REDACTED]	1093/10500 [00:11<01:28, 106.54it/s]
11%	[REDACTED]	1104/10500 [00:11<01:35, 98.81it/s]
11%	[REDACTED]	1115/10500 [00:12<01:49, 85.46it/s]
11%	[REDACTED]	1129/10500 [00:12<01:38, 95.05it/s]
11%	[REDACTED]	1140/10500 [00:12<01:42, 91.73it/s]
11%	[REDACTED]	1150/10500 [00:12<01:55, 81.26it/s]
11%	[REDACTED]	1160/10500 [00:12<01:48, 85.94it/s]
11%	[REDACTED]	1170/10500 [00:12<01:50, 84.35it/s]
11%	[REDACTED]	1181/10500 [00:12<01:45, 88.57it/s]
11%	[REDACTED]	1195/10500 [00:12<01:34, 98.96it/s]
11%	[REDACTED]	1206/10500 [00:12<01:33, 99.89it/s]
12%	[REDACTED]	1217/10500 [00:13<01:30, 102.23it/s]
12%	[REDACTED]	1228/10500 [00:13<01:31, 100.80it/s]
12%	[REDACTED]	1239/10500 [00:13<01:34, 98.48it/s]
12%	[REDACTED]	1250/10500 [00:13<01:40, 92.13it/s]
12%	[REDACTED]	1260/10500 [00:13<01:39, 92.97it/s]
12%	[REDACTED]	1270/10500 [00:13<01:51, 82.60it/s]
12%	[REDACTED]	1283/10500 [00:13<01:41, 91.05it/s]
12%	[REDACTED]	1293/10500 [00:13<01:39, 92.08it/s]
12%	[REDACTED]	1303/10500 [00:14<01:42, 89.35it/s]
13%	[REDACTED]	1315/10500 [00:14<01:36, 95.21it/s]
13%	[REDACTED]	1325/10500 [00:14<01:36, 94.76it/s]
13%	[REDACTED]	1335/10500 [00:14<01:39, 91.98it/s]

13%		1347/10500 [00:14<01:33, 97.58it/s]
13%		1361/10500 [00:14<01:26, 106.20it/s]
13%		1372/10500 [00:14<01:34, 97.02it/s]
13%		1383/10500 [00:14<01:45, 86.30it/s]
13%		1394/10500 [00:14<01:39, 91.35it/s]
13%		1409/10500 [00:15<01:30, 100.22it/s]
14%		1420/10500 [00:15<01:38, 92.51it/s]
14%		1432/10500 [00:15<01:32, 98.32it/s]
14%		1443/10500 [00:15<01:30, 100.37it/s]
14%		1454/10500 [00:15<01:30, 99.80it/s]
14%		1465/10500 [00:15<01:37, 92.63it/s]
14%		1475/10500 [00:15<01:36, 94.00it/s]
14%		1485/10500 [00:15<01:36, 93.13it/s]
14%		1495/10500 [00:15<01:34, 94.89it/s]
14%		1505/10500 [00:16<01:34, 95.61it/s]
14%		1515/10500 [00:16<01:37, 92.15it/s]
15%		1525/10500 [00:16<01:37, 92.41it/s]
15%		1536/10500 [00:16<01:39, 89.89it/s]
15%		1549/10500 [00:16<01:33, 96.06it/s]
15%		1559/10500 [00:16<01:33, 95.56it/s]
15%		1569/10500 [00:16<01:40, 88.99it/s]
15%		1580/10500 [00:16<01:37, 91.10it/s]
15%		1590/10500 [00:17<01:42, 86.84it/s]
15%		1600/10500 [00:17<01:43, 86.18it/s]
15%		1610/10500 [00:17<01:41, 87.58it/s]
15%		1619/10500 [00:17<01:50, 80.12it/s]
16%		1628/10500 [00:17<01:48, 81.59it/s]
16%		1639/10500 [00:17<01:41, 87.61it/s]

16% ███████████	1648/10500 [00:17<01:43, 85.80it/s]
16% ███████████	1659/10500 [00:17<01:40, 88.29it/s]
16% ███████████	1670/10500 [00:17<01:36, 91.52it/s]
16% ███████████	1681/10500 [00:18<01:32, 95.32it/s]
16% ███████████	1694/10500 [00:18<01:26, 102.19it/s]
16% ███████████	1710/10500 [00:18<01:17, 113.90it/s]
16% ███████████	1722/10500 [00:18<01:37, 89.79it/s]
17% ███████████	1733/10500 [00:18<01:44, 83.63it/s]
17% ███████████	1743/10500 [00:18<01:43, 84.67it/s]
17% ███████████	1757/10500 [00:18<01:31, 95.33it/s]
17% ███████████	1769/10500 [00:18<01:26, 101.15it/s]
17% ███████████	1780/10500 [00:19<01:28, 98.45it/s]
17% ███████████	1791/10500 [00:19<01:30, 96.65it/s]
17% ███████████	1805/10500 [00:19<01:22, 105.41it/s]
17% ███████████	1818/10500 [00:19<01:19, 109.72it/s]
17% ███████████	1830/10500 [00:19<01:25, 101.47it/s]
18% ███████████	1841/10500 [00:19<01:27, 99.27it/s]
18% ███████████	1852/10500 [00:19<01:26, 99.48it/s]
18% ███████████	1863/10500 [00:19<01:33, 92.20it/s]
18% ███████████	1877/10500 [00:19<01:25, 100.47it/s]
18% ███████████	1888/10500 [00:20<01:36, 89.53it/s]
18% ███████████	1898/10500 [00:20<01:33, 92.41it/s]
18% ███████████	1908/10500 [00:20<01:33, 91.92it/s]
18% ███████████	1918/10500 [00:20<01:33, 91.44it/s]
18% ███████████	1928/10500 [00:20<01:35, 90.12it/s]
18% ███████████	1938/10500 [00:20<01:32, 92.43it/s]
19% ███████████	1950/10500 [00:20<01:27, 97.28it/s]

19%	1961/10500 [00:20<01:25, 99.76it/s]
19%	1972/10500 [00:21<01:30, 94.27it/s]
19%	1983/10500 [00:21<01:31, 93.08it/s]
19%	1993/10500 [00:21<01:34, 90.49it/s]
19%	2004/10500 [00:21<01:30, 94.16it/s]
19%	2015/10500 [00:21<01:30, 93.45it/s]
19%	2025/10500 [00:21<01:31, 92.63it/s]
19%	2039/10500 [00:21<01:22, 102.31it/s]
20%	2052/10500 [00:21<01:19, 106.54it/s]
20%	2065/10500 [00:21<01:15, 111.01it/s]
20%	2077/10500 [00:22<01:16, 110.33it/s]
20%	2089/10500 [00:22<01:22, 101.46it/s]
20%	2102/10500 [00:22<01:19, 106.03it/s]
20%	2113/10500 [00:22<01:27, 96.01it/s]
20%	2123/10500 [00:22<01:31, 91.78it/s]
20%	2133/10500 [00:22<01:37, 85.86it/s]
20%	2144/10500 [00:22<01:32, 90.50it/s]
21%	2154/10500 [00:22<01:34, 88.25it/s]
21%	2164/10500 [00:23<01:32, 90.50it/s]
21%	2174/10500 [00:23<01:35, 86.90it/s]
21%	2184/10500 [00:23<01:34, 88.15it/s]
21%	2193/10500 [00:23<01:36, 85.68it/s]
21%	2202/10500 [00:23<01:41, 81.79it/s]
21%	2212/10500 [00:23<01:35, 86.36it/s]
21%	2224/10500 [00:23<01:28, 93.90it/s]
21%	2234/10500 [00:23<01:37, 85.01it/s]
21%	2247/10500 [00:23<01:27, 94.81it/s]
22%	2260/10500 [00:24<01:21, 101.21it/s]

22%| [REDACTED]

| 2271/10500 [00:24<01:21, 101.20it/s]

22%| [REDACTED]

| 2283/10500 [00:24<01:18, 105.15it/s]

22%| [REDACTED]

| 2294/10500 [00:24<01:20, 102.41it/s]

22%| [REDACTED]

| 2306/10500 [00:24<01:17, 105.43it/s]

22%| [REDACTED]

| 2317/10500 [00:24<01:18, 103.65it/s]

22%| [REDACTED]

| 2328/10500 [00:24<01:24, 96.20it/s]

22%| [REDACTED]

| 2338/10500 [00:24<01:28, 91.89it/s]

22%| [REDACTED]

| 2351/10500 [00:24<01:22, 98.87it/s]

23%| [REDACTED]

| 2364/10500 [00:25<01:17, 104.54it/s]

23%| [REDACTED]

| 2375/10500 [00:25<01:24, 96.69it/s]

23%| [REDACTED]

| 2388/10500 [00:25<01:18, 103.14it/s]

23%| [REDACTED]

| 2399/10500 [00:25<01:24, 96.11it/s]

23%| [REDACTED]

| 2410/10500 [00:25<01:21, 98.89it/s]

23%| [REDACTED]

| 2424/10500 [00:25<01:16, 105.10it/s]

23%| [REDACTED]

| 2435/10500 [00:25<01:30, 88.76it/s]

23%| [REDACTED]

| 2448/10500 [00:25<01:23, 96.63it/s]

23%| [REDACTED]

| 2460/10500 [00:26<01:18, 102.17it/s]

24%| [REDACTED]

| 2471/10500 [00:26<01:20, 99.93it/s]

24%| [REDACTED]

| 2482/10500 [00:26<01:34, 84.61it/s]

24%| [REDACTED]

| 2493/10500 [00:26<01:28, 89.99it/s]

24%| [REDACTED]

| 2503/10500 [00:26<01:30, 88.72it/s]

24%| [REDACTED]

| 2513/10500 [00:26<01:32, 86.04it/s]

24%| [REDACTED]

| 2523/10500 [00:26<01:31, 87.04it/s]

24%| [REDACTED]

| 2535/10500 [00:26<01:24, 93.98it/s]

24%| [REDACTED]

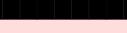
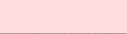
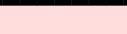
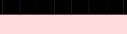
| 2547/10500 [00:26<01:21, 98.05it/s]

24%| [REDACTED]

| 2558/10500 [00:27<01:19, 100.30it/s]

24%| [REDACTED]

| 2569/10500 [00:27<01:29, 88.98it/s]

25%		2584/10500 [00:27<01:18, 100.97it/s]
25%		2596/10500 [00:27<01:15, 104.16it/s]
25%		2608/10500 [00:27<01:18, 100.13it/s]
25%		2619/10500 [00:27<01:22, 95.48it/s]
25%		2629/10500 [00:27<01:21, 96.21it/s]
25%		2640/10500 [00:27<01:20, 97.18it/s]
25%		2650/10500 [00:28<01:27, 89.96it/s]
25%		2663/10500 [00:28<01:19, 98.28it/s]
25%		2674/10500 [00:28<01:22, 94.71it/s]
26%		2686/10500 [00:28<01:21, 96.25it/s]
26%		2696/10500 [00:28<01:24, 92.23it/s]
26%		2706/10500 [00:28<01:23, 93.08it/s]
26%		2717/10500 [00:28<01:21, 95.47it/s]
26%		2727/10500 [00:28<01:27, 88.58it/s]
26%		2739/10500 [00:28<01:22, 94.00it/s]
26%		2750/10500 [00:29<01:20, 96.60it/s]
26%		2761/10500 [00:29<01:18, 99.09it/s]
26%		2772/10500 [00:29<01:24, 91.14it/s]
27%		2784/10500 [00:29<01:19, 97.34it/s]
27%		2795/10500 [00:29<01:17, 99.26it/s]
27%		2806/10500 [00:29<01:17, 99.02it/s]
27%		2817/10500 [00:29<01:22, 93.34it/s]
27%		2829/10500 [00:29<01:17, 99.08it/s]
27%		2840/10500 [00:29<01:15, 101.07it/s]
27%		2852/10500 [00:30<01:12, 104.78it/s]
27%		2863/10500 [00:30<01:14, 103.09it/s]
27%		2874/10500 [00:30<01:15, 100.88it/s]
27%		2885/10500 [00:30<01:17, 98.17it/s]

28%	2897/10500 [00:30<01:13, 103.11it/s]
28%	2908/10500 [00:30<01:15, 100.01it/s]
28%	2919/10500 [00:30<01:15, 100.09it/s]
28%	2930/10500 [00:30<01:18, 96.72it/s]
28%	2940/10500 [00:31<01:21, 92.61it/s]
28%	2950/10500 [00:31<01:22, 91.16it/s]
28%	2961/10500 [00:31<01:18, 95.67it/s]
28%	2971/10500 [00:31<01:20, 93.04it/s]
28%	2985/10500 [00:31<01:14, 101.23it/s]
29%	2996/10500 [00:31<01:16, 98.23it/s]
29%	3007/10500 [00:31<01:24, 89.11it/s]
29%	3019/10500 [00:31<01:17, 96.52it/s]
29%	3032/10500 [00:31<01:18, 95.61it/s]
29%	3042/10500 [00:32<01:18, 95.49it/s]
29%	3052/10500 [00:32<01:18, 94.29it/s]
29%	3065/10500 [00:32<01:13, 101.19it/s]
29%	3078/10500 [00:32<01:09, 107.31it/s]
29%	3089/10500 [00:32<01:18, 94.26it/s]
30%	3100/10500 [00:32<01:16, 96.88it/s]
30%	3112/10500 [00:32<01:12, 101.73it/s]
30%	3124/10500 [00:32<01:11, 103.87it/s]
30%	3135/10500 [00:32<01:14, 98.59it/s]
30%	3146/10500 [00:33<01:12, 101.70it/s]
30%	3157/10500 [00:33<01:12, 100.95it/s]
30%	3168/10500 [00:33<01:17, 94.32it/s]
30%	3178/10500 [00:33<01:19, 91.89it/s]
30%	3188/10500 [00:33<01:24, 86.81it/s]

30%		3197/10500 [00:33<01:24, 86.76it/s]
31%		3206/10500 [00:33<01:25, 85.08it/s]
31%		3215/10500 [00:33<01:26, 84.27it/s]
31%		3224/10500 [00:34<01:31, 79.10it/s]
31%		3237/10500 [00:34<01:22, 88.41it/s]
31%		3247/10500 [00:34<01:28, 81.87it/s]
31%		3260/10500 [00:34<01:19, 91.05it/s]
31%		3274/10500 [00:34<01:11, 101.21it/s]
31%		3287/10500 [00:34<01:07, 107.54it/s]
31%		3299/10500 [00:34<01:07, 106.22it/s]
32%		3311/10500 [00:34<01:08, 104.77it/s]
32%		3322/10500 [00:34<01:09, 103.38it/s]
32%		3333/10500 [00:35<01:10, 101.57it/s]
32%		3346/10500 [00:35<01:07, 106.38it/s]
32%		3360/10500 [00:35<01:02, 114.16it/s]
32%		3372/10500 [00:35<01:13, 96.83it/s]
32%		3383/10500 [00:35<01:12, 98.63it/s]
32%		3394/10500 [00:35<01:11, 99.11it/s]
32%		3405/10500 [00:35<01:12, 97.35it/s]
33%		3416/10500 [00:35<01:10, 100.79it/s]
33%		3427/10500 [00:35<01:09, 101.05it/s]
33%		3438/10500 [00:36<01:09, 101.93it/s]
33%		3449/10500 [00:36<01:17, 91.35it/s]
33%		3459/10500 [00:36<01:15, 93.07it/s]
33%		3469/10500 [00:36<01:16, 92.35it/s]
33%		3483/10500 [00:36<01:10, 99.79it/s]
33%		3495/10500 [00:36<01:07, 103.47it/s]
33%		3506/10500 [00:36<01:22, 84.92it/s]

34%	3518/10500 [00:36<01:16, 91.75it/s]
34%	3528/10500 [00:37<01:16, 91.50it/s]
34%	3538/10500 [00:37<01:14, 93.85it/s]
34%	3550/10500 [00:37<01:11, 97.09it/s]
34%	3560/10500 [00:37<01:12, 96.12it/s]
34%	3570/10500 [00:37<01:13, 94.50it/s]
34%	3580/10500 [00:37<01:14, 93.50it/s]
34%	3593/10500 [00:37<01:08, 101.14it/s]
34%	3604/10500 [00:37<01:15, 91.68it/s]
34%	3615/10500 [00:37<01:11, 96.44it/s]
35%	3627/10500 [00:38<01:07, 102.40it/s]
35%	3638/10500 [00:38<01:11, 95.41it/s]
35%	3648/10500 [00:38<01:12, 94.08it/s]
35%	3664/10500 [00:38<01:03, 107.29it/s]
35%	3676/10500 [00:38<01:04, 105.10it/s]
35%	3688/10500 [00:38<01:05, 104.59it/s]
35%	3699/10500 [00:38<01:11, 95.05it/s]
35%	3712/10500 [00:38<01:06, 102.69it/s]
35%	3724/10500 [00:38<01:03, 107.28it/s]
36%	3736/10500 [00:39<01:02, 107.64it/s]
36%	3748/10500 [00:39<01:04, 105.19it/s]
36%	3759/10500 [00:39<01:04, 104.69it/s]
36%	3770/10500 [00:39<01:05, 103.35it/s]
36%	3781/10500 [00:39<01:17, 87.07it/s]
36%	3793/10500 [00:39<01:10, 94.56it/s]
36%	3804/10500 [00:39<01:10, 94.61it/s]
36%	3818/10500 [00:39<01:05, 101.75it/s]

36%		3830/10500 [00:40<01:05, 102.07it/s]
37%		3843/10500 [00:40<01:02, 106.47it/s]
37%		3854/10500 [00:40<01:12, 91.46it/s]
37%		3874/10500 [00:40<01:14, 88.58it/s]
37%		3884/10500 [00:40<01:15, 87.70it/s]
37%		3893/10500 [00:40<01:16, 85.92it/s]
37%		3902/10500 [00:40<01:18, 84.01it/s]
37%		3911/10500 [00:40<01:18, 83.67it/s]
37%		3920/10500 [00:41<01:17, 85.29it/s]
37%		3929/10500 [00:41<01:18, 83.59it/s]
38%		3942/10500 [00:41<01:12, 90.36it/s]
38%		3954/10500 [00:41<01:54, 56.98it/s]
38%		3962/10500 [00:41<01:55, 56.51it/s]
38%		3974/10500 [00:41<01:38, 66.57it/s]
38%		3983/10500 [00:42<01:32, 70.43it/s]
38%		3992/10500 [00:42<01:30, 71.73it/s]
38%		4006/10500 [00:42<01:17, 83.43it/s]
38%		4017/10500 [00:42<01:14, 86.79it/s]
38%		4028/10500 [00:42<01:11, 90.17it/s]
38%		4038/10500 [00:42<01:16, 84.82it/s]
39%		4050/10500 [00:42<01:10, 91.00it/s]
39%		4061/10500 [00:42<01:08, 93.42it/s]
39%		4071/10500 [00:42<01:13, 87.80it/s]
39%		4081/10500 [00:43<01:11, 89.65it/s]
39%		4091/10500 [00:43<01:13, 87.67it/s]
39%		4101/10500 [00:43<01:12, 88.02it/s]
39%		4110/10500 [00:43<01:13, 87.13it/s]

39%	4119/10500 [00:43<01:20, 79.44it/s]
39%	4132/10500 [00:43<01:10, 89.89it/s]
39%	4144/10500 [00:43<01:05, 97.03it/s]
40%	4157/10500 [00:43<01:00, 104.84it/s]
40%	4169/10500 [00:44<01:07, 94.41it/s]
40%	4181/10500 [00:44<01:02, 100.68it/s]
40%	4192/10500 [00:44<01:05, 95.84it/s]
40%	4204/10500 [00:44<01:02, 101.31it/s]
40%	4215/10500 [00:44<01:00, 103.20it/s]
40%	4226/10500 [00:44<01:13, 84.81it/s]
40%	4238/10500 [00:44<01:07, 92.10it/s]
40%	4250/10500 [00:44<01:04, 97.55it/s]
41%	4261/10500 [00:44<01:03, 98.25it/s]
41%	4272/10500 [00:45<01:07, 92.82it/s]
41%	4284/10500 [00:45<01:02, 99.58it/s]
41%	4297/10500 [00:45<00:58, 105.48it/s]
41%	4308/10500 [00:45<00:58, 105.56it/s]
41%	4319/10500 [00:45<01:05, 94.07it/s]
41%	4333/10500 [00:45<00:59, 103.25it/s]
41%	4344/10500 [00:45<01:06, 92.09it/s]
41%	4355/10500 [00:45<01:05, 94.15it/s]
42%	4365/10500 [00:46<01:14, 82.63it/s]
42%	4377/10500 [00:46<01:07, 90.79it/s]
42%	4392/10500 [00:46<00:59, 102.62it/s]
42%	4405/10500 [00:46<00:56, 108.11it/s]
42%	4417/10500 [00:46<01:00, 100.30it/s]
42%	4429/10500 [00:46<00:58, 104.16it/s]

42%		4440/10500 [00:46<00:57, 105.55it/s]
42%		4451/10500 [00:46<01:01, 98.60it/s]
42%		4462/10500 [00:47<01:05, 91.77it/s]
43%		4475/10500 [00:47<01:01, 98.23it/s]
43%		4489/10500 [00:47<00:57, 104.16it/s]
43%		4500/10500 [00:47<01:03, 94.56it/s]
43%		4510/10500 [00:47<01:02, 95.38it/s]
43%		4520/10500 [00:47<01:06, 90.51it/s]
43%		4530/10500 [00:47<01:09, 85.58it/s]
43%		4541/10500 [00:47<01:05, 91.30it/s]
43%		4551/10500 [00:47<01:06, 89.07it/s]
43%		4561/10500 [00:48<01:04, 91.52it/s]
44%		4571/10500 [00:48<01:04, 92.17it/s]
44%		4581/10500 [00:48<01:05, 90.61it/s]
44%		4591/10500 [00:48<01:04, 91.55it/s]
44%		4607/10500 [00:48<00:57, 102.21it/s]
44%		4618/10500 [00:48<00:57, 102.68it/s]
44%		4630/10500 [00:48<00:54, 107.31it/s]
44%		4645/10500 [00:48<00:51, 114.56it/s]
44%		4657/10500 [00:48<01:00, 96.01it/s]
44%		4669/10500 [00:49<00:58, 100.14it/s]
45%		4680/10500 [00:49<00:57, 101.83it/s]
45%		4691/10500 [00:49<00:56, 102.42it/s]
45%		4702/10500 [00:49<01:05, 88.39it/s]
45%		4713/10500 [00:49<01:01, 93.70it/s]
45%		4723/10500 [00:49<01:00, 95.17it/s]
45%		4733/10500 [00:49<00:59, 96.31it/s]
45%		4743/10500 [00:49<01:01, 93.86it/s]

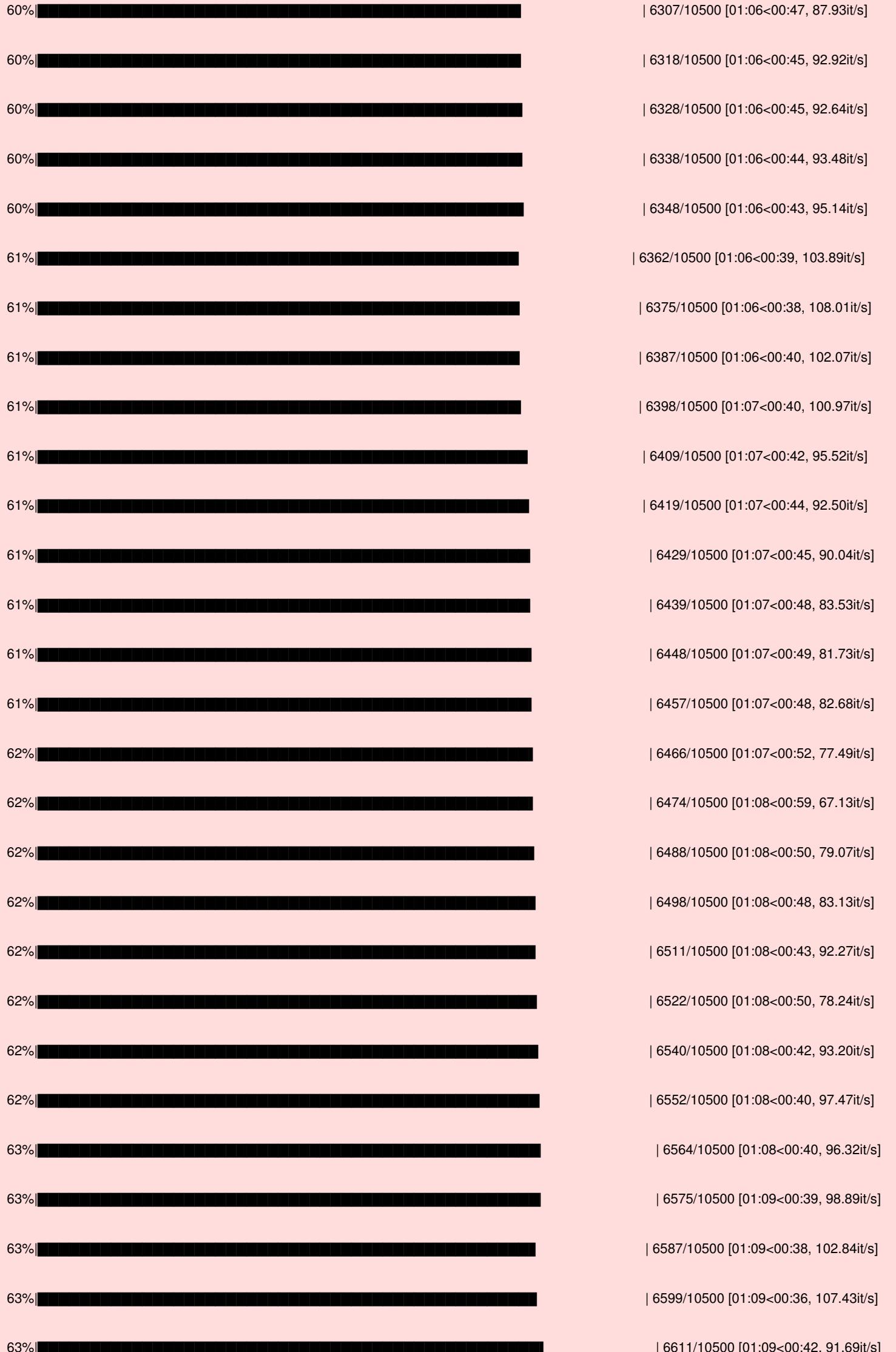
45%		4756/10500 [00:49<00:56, 101.66it/s]
45%		4767/10500 [00:50<00:57, 99.28it/s]
46%		4781/10500 [00:50<00:55, 103.25it/s]
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46%		4804/10500 [00:50<01:05, 87.60it/s]
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46%		4824/10500 [00:50<01:09, 81.65it/s]
46%		4836/10500 [00:50<01:03, 89.15it/s]
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46%		4871/10500 [00:51<00:59, 94.52it/s]
46%		4881/10500 [00:51<00:58, 95.98it/s]
47%		4892/10500 [00:51<00:56, 98.61it/s]
47%		4909/10500 [00:51<00:50, 111.55it/s]
47%		4921/10500 [00:51<00:55, 99.72it/s]
47%		4932/10500 [00:51<00:59, 93.46it/s]
47%		4944/10500 [00:51<00:56, 99.04it/s]
47%		4955/10500 [00:52<00:57, 96.57it/s]
47%		4968/10500 [00:52<00:52, 104.61it/s]
47%		4979/10500 [00:52<00:55, 100.32it/s]
48%		4990/10500 [00:52<00:54, 100.27it/s]
48%		5001/10500 [00:52<00:55, 99.18it/s]
48%		5012/10500 [00:52<00:57, 95.24it/s]
48%		5025/10500 [00:52<00:54, 101.08it/s]
48%		5036/10500 [00:52<00:55, 98.05it/s]
48%		5046/10500 [00:52<00:56, 95.80it/s]
48%		5057/10500 [00:53<00:55, 98.63it/s]

48%		5067/10500 [00:53<01:09, 78.35it/s]
48%		5080/10500 [00:53<01:01, 88.44it/s]
48%		5090/10500 [00:53<01:03, 85.63it/s]
49%		5100/10500 [00:53<01:07, 80.49it/s]
49%		5109/10500 [00:53<01:15, 71.60it/s]
49%		5119/10500 [00:53<01:09, 77.41it/s]
49%		5128/10500 [00:53<01:07, 79.16it/s]
49%		5139/10500 [00:54<01:03, 84.69it/s]
49%		5151/10500 [00:54<00:58, 91.88it/s]
49%		5161/10500 [00:54<00:57, 93.35it/s]
49%		5171/10500 [00:54<00:56, 94.38it/s]
49%		5181/10500 [00:54<00:56, 94.08it/s]
49%		5191/10500 [00:54<01:09, 76.48it/s]
50%		5200/10500 [00:54<01:08, 77.62it/s]
50%		5215/10500 [00:54<00:58, 90.70it/s]
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50%		5237/10500 [00:55<00:56, 93.25it/s]
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50%		5269/10500 [00:55<00:58, 90.02it/s]
50%		5283/10500 [00:55<00:52, 99.51it/s]
50%		5295/10500 [00:55<00:50, 103.44it/s]
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51%		5317/10500 [00:55<00:50, 102.78it/s]
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51%		5340/10500 [00:56<00:48, 106.61it/s]
51%		5351/10500 [00:56<00:56, 91.55it/s]
51%		5362/10500 [00:56<00:54, 93.63it/s]

51%		5373/10500 [00:56<00:52, 97.27it/s]
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51%		5396/10500 [00:56<00:56, 90.95it/s]
51%		5406/10500 [00:56<00:54, 93.46it/s]
52%		5419/10500 [00:57<00:52, 97.54it/s]
52%		5429/10500 [00:57<00:53, 95.36it/s]
52%		5441/10500 [00:57<00:50, 100.62it/s]
52%		5452/10500 [00:57<00:50, 99.66it/s]
52%		5463/10500 [00:57<00:53, 94.26it/s]
52%		5474/10500 [00:57<00:52, 96.61it/s]
52%		5484/10500 [00:57<00:54, 91.78it/s]
52%		5494/10500 [00:57<01:04, 77.20it/s]
52%		5508/10500 [00:57<00:56, 88.91it/s]
53%		5520/10500 [00:58<00:52, 94.20it/s]
53%		5531/10500 [00:58<00:53, 92.33it/s]
53%		5541/10500 [00:58<00:52, 93.59it/s]
53%		5551/10500 [00:58<00:53, 92.97it/s]
53%		5561/10500 [00:58<00:56, 87.12it/s]
53%		5575/10500 [00:58<00:50, 96.68it/s]
53%		5587/10500 [00:58<00:48, 102.21it/s]
53%		5598/10500 [00:58<00:51, 95.80it/s]
53%		5608/10500 [00:59<00:53, 92.27it/s]
54%		5620/10500 [00:59<00:49, 97.87it/s]
54%		5631/10500 [00:59<00:59, 82.18it/s]
54%		5640/10500 [00:59<00:59, 81.80it/s]
54%		5652/10500 [00:59<00:54, 89.26it/s]
54%		5666/10500 [00:59<00:49, 98.07it/s]

54%		5680/10500 [00:59<00:45, 105.34it/s]
54%		5692/10500 [00:59<00:48, 100.00it/s]
54%		5703/10500 [00:59<00:47, 100.25it/s]
54%		5717/10500 [01:00<00:44, 106.99it/s]
55%		5729/10500 [01:00<00:48, 98.04it/s]
55%		5740/10500 [01:00<00:50, 93.68it/s]
55%		5752/10500 [01:00<00:48, 98.61it/s]
55%		5763/10500 [01:00<00:47, 99.23it/s]
55%		5774/10500 [01:00<00:51, 91.34it/s]
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55%		5794/10500 [01:00<00:50, 92.80it/s]
55%		5804/10500 [01:01<00:51, 91.92it/s]
55%		5816/10500 [01:01<00:47, 97.72it/s]
55%		5826/10500 [01:01<00:48, 97.04it/s]
56%		5836/10500 [01:01<00:51, 90.53it/s]
56%		5849/10500 [01:01<00:47, 98.89it/s]
56%		5862/10500 [01:01<00:44, 104.77it/s]
56%		5874/10500 [01:01<00:42, 107.69it/s]
56%		5886/10500 [01:01<00:50, 91.78it/s]
56%		5896/10500 [01:01<00:48, 94.08it/s]
56%		5906/10500 [01:02<00:51, 89.52it/s]
56%		5916/10500 [01:02<01:00, 76.31it/s]
56%		5925/10500 [01:02<00:57, 79.87it/s]
57%		5940/10500 [01:02<00:49, 91.35it/s]
57%		5955/10500 [01:02<00:46, 97.45it/s]
57%		5966/10500 [01:02<00:46, 98.17it/s]
57%		5977/10500 [01:02<00:45, 98.78it/s]
57%		5988/10500 [01:02<00:46, 96.58it/s]

57%		6003/10500 [01:03<00:41, 108.03it/s]
57%		6015/10500 [01:03<00:40, 110.14it/s]
57%		6028/10500 [01:03<00:39, 112.53it/s]
58%		6040/10500 [01:03<00:40, 109.63it/s]
58%		6053/10500 [01:03<00:39, 113.77it/s]
58%		6066/10500 [01:03<00:38, 115.16it/s]
58%		6078/10500 [01:03<00:44, 100.10it/s]
58%		6089/10500 [01:03<00:46, 94.98it/s]
58%		6102/10500 [01:03<00:42, 103.28it/s]
58%		6113/10500 [01:04<00:46, 94.34it/s]
58%		6124/10500 [01:04<00:45, 96.07it/s]
58%		6137/10500 [01:04<00:41, 104.19it/s]
59%		6148/10500 [01:04<00:42, 102.90it/s]
59%		6159/10500 [01:04<00:45, 95.65it/s]
59%		6169/10500 [01:04<00:45, 94.21it/s]
59%		6183/10500 [01:04<00:41, 102.98it/s]
59%		6194/10500 [01:04<00:43, 98.20it/s]
59%		6205/10500 [01:05<00:45, 94.16it/s]
59%		6215/10500 [01:05<00:45, 93.72it/s]
59%		6225/10500 [01:05<00:45, 94.48it/s]
59%		6237/10500 [01:05<00:42, 100.39it/s]
60%		6248/10500 [01:05<00:43, 98.47it/s]
60%		6258/10500 [01:05<00:46, 90.43it/s]
60%		6268/10500 [01:05<00:45, 92.91it/s]
60%		6278/10500 [01:05<00:47, 89.41it/s]
60%		6288/10500 [01:05<00:49, 84.26it/s]
60%		6297/10500 [01:06<00:49, 85.36it/s]



63%		6621/10500 [01:09<00:41, 92.54it/s]
63%		6635/10500 [01:09<00:37, 102.40it/s]
63%		6647/10500 [01:09<00:36, 106.48it/s]
63%		6661/10500 [01:09<00:33, 112.99it/s]
64%		6673/10500 [01:10<00:40, 93.60it/s]
64%		6684/10500 [01:10<00:40, 94.77it/s]
64%		6697/10500 [01:10<00:37, 102.73it/s]
64%		6708/10500 [01:10<00:37, 100.97it/s]
64%		6719/10500 [01:10<00:39, 95.47it/s]
64%		6731/10500 [01:10<00:37, 101.68it/s]
64%		6742/10500 [01:10<00:37, 99.94it/s]
64%		6754/10500 [01:10<00:36, 102.64it/s]
64%		6765/10500 [01:10<00:40, 92.55it/s]
65%		6775/10500 [01:11<00:40, 92.12it/s]
65%		6786/10500 [01:11<00:39, 94.35it/s]
65%		6798/10500 [01:11<00:37, 99.71it/s]
65%		6809/10500 [01:11<00:41, 88.53it/s]
65%		6819/10500 [01:11<00:42, 86.30it/s]
65%		6830/10500 [01:11<00:39, 91.87it/s]
65%		6844/10500 [01:11<00:36, 101.16it/s]
65%		6855/10500 [01:11<00:35, 102.30it/s]
65%		6866/10500 [01:11<00:37, 97.89it/s]
65%		6877/10500 [01:12<00:38, 95.27it/s]
66%		6889/10500 [01:12<00:35, 100.85it/s]
66%		6900/10500 [01:12<00:38, 93.09it/s]
66%		6911/10500 [01:12<00:37, 95.11it/s]
66%		6924/10500 [01:12<00:35, 101.97it/s]

66% [redacted]	6935/10500 [01:12<00:37, 95.25it/s]
66% [redacted]	6946/10500 [01:12<00:35, 98.98it/s]
66% [redacted]	6959/10500 [01:12<00:34, 102.32it/s]
66% [redacted]	6970/10500 [01:13<00:33, 104.44it/s]
66% [redacted]	6982/10500 [01:13<00:32, 108.59it/s]
67% [redacted]	6994/10500 [01:13<00:33, 105.72it/s]
67% [redacted]	7005/10500 [01:13<00:34, 100.27it/s]
67% [redacted]	7016/10500 [01:13<00:34, 101.37it/s]
67% [redacted]	7027/10500 [01:13<00:37, 91.49it/s]
67% [redacted]	7037/10500 [01:13<00:37, 92.14it/s]
67% [redacted]	7048/10500 [01:13<00:36, 95.67it/s]
67% [redacted]	7062/10500 [01:13<00:32, 105.06it/s]
67% [redacted]	7073/10500 [01:14<00:33, 102.14it/s]
67% [redacted]	7084/10500 [01:14<00:36, 94.03it/s]
68% [redacted]	7094/10500 [01:14<00:37, 91.62it/s]
68% [redacted]	7104/10500 [01:14<00:37, 89.42it/s]
68% [redacted]	7116/10500 [01:14<00:35, 94.54it/s]
68% [redacted]	7126/10500 [01:14<00:36, 92.29it/s]
68% [redacted]	7136/10500 [01:14<00:36, 92.96it/s]
68% [redacted]	7149/10500 [01:14<00:33, 100.91it/s]
68% [redacted]	7160/10500 [01:14<00:36, 90.47it/s]
68% [redacted]	7170/10500 [01:15<00:37, 89.53it/s]

68% /s]	7170/10500 [01:15<00:32, 101.56it/
69% /s]	7197/10500 [01:15<00:31, 105.30it/
69% /s]	7209/10500 [01:15<00:33, 99.61it
69% /s]	7220/10500 [01:15<00:34, 95.90it
69% /s]	7230/10500 [01:15<00:37, 87.51it
69% /s]	7240/10500 [01:15<00:37, 87.64it
69% t/s]	7253/10500 [01:15<00:33, 96.33i
69% t/s]	7264/10500 [01:16<00:34, 94.72i
69% t/s]	7275/10500 [01:16<00:32, 98.12i
69% t/s]	7286/10500 [01:16<00:32, 98.49i
69% t/s]	7297/10500 [01:16<00:33, 94.65i
70% t/s]	7307/10500 [01:16<00:35, 90.15i
70% t/s]	7317/10500 [01:16<00:36, 86.65i
70% t/s]	7330/10500 [01:16<00:33, 93.56i
70% 8it/s]	7343/10500 [01:16<00:30, 102.0
70% t/s]	7354/10500 [01:16<00:31, 99.42i
70% t/s]	7365/10500 [01:17<00:33, 94.48i
70% t/s]	7375/10500 [01:17<00:32, 96.04i
70% 0it/s]	7387/10500 [01:17<00:31, 99.7
70% 2it/s]	7398/10500 [01:17<00:36, 85.0

71%
7it/s]

| 7407/10500 [01:17<00:37, 83.1

71%
4it/s]

| 7419/10500 [01:17<00:33, 91.3

71%
6it/s]

| 7429/10500 [01:17<00:36, 84.2

71%
6it/s]

| 7438/10500 [01:17<00:36, 84.7

71%
2it/s]

| 7447/10500 [01:18<00:36, 83.9

71%
7it/s]

| 7458/10500 [01:18<00:35, 85.5

71%
2it/s]

| 7468/10500 [01:18<00:34, 88.3

71%
9it/s]

| 7482/10500 [01:18<00:31, 96.5

71%
4it/s]

| 7494/10500 [01:18<00:30, 100.1

71%
9it/s]

| 7506/10500 [01:18<00:28, 105.1

72%
3it/s]

| 7519/10500 [01:18<00:27, 109.9

72%
0it/s]

| 7531/10500 [01:18<00:27, 108.4

72%
1it/s]

| 7543/10500 [01:18<00:27, 109.5

72%
2it/s]

| 7556/10500 [01:19<00:26, 112.2

72%
9it/s]

| 7568/10500 [01:19<00:26, 110.0

72%
6it/s]

| 7580/10500 [01:19<00:26, 108.3

72%
9it/s]

| 7591/10500 [01:19<00:28, 102.3

72%
98it/s]

| 7602/10500 [01:19<00:29, 98.

73%
8it/s]

| 7615/10500 [01:19<00:27, 106.5

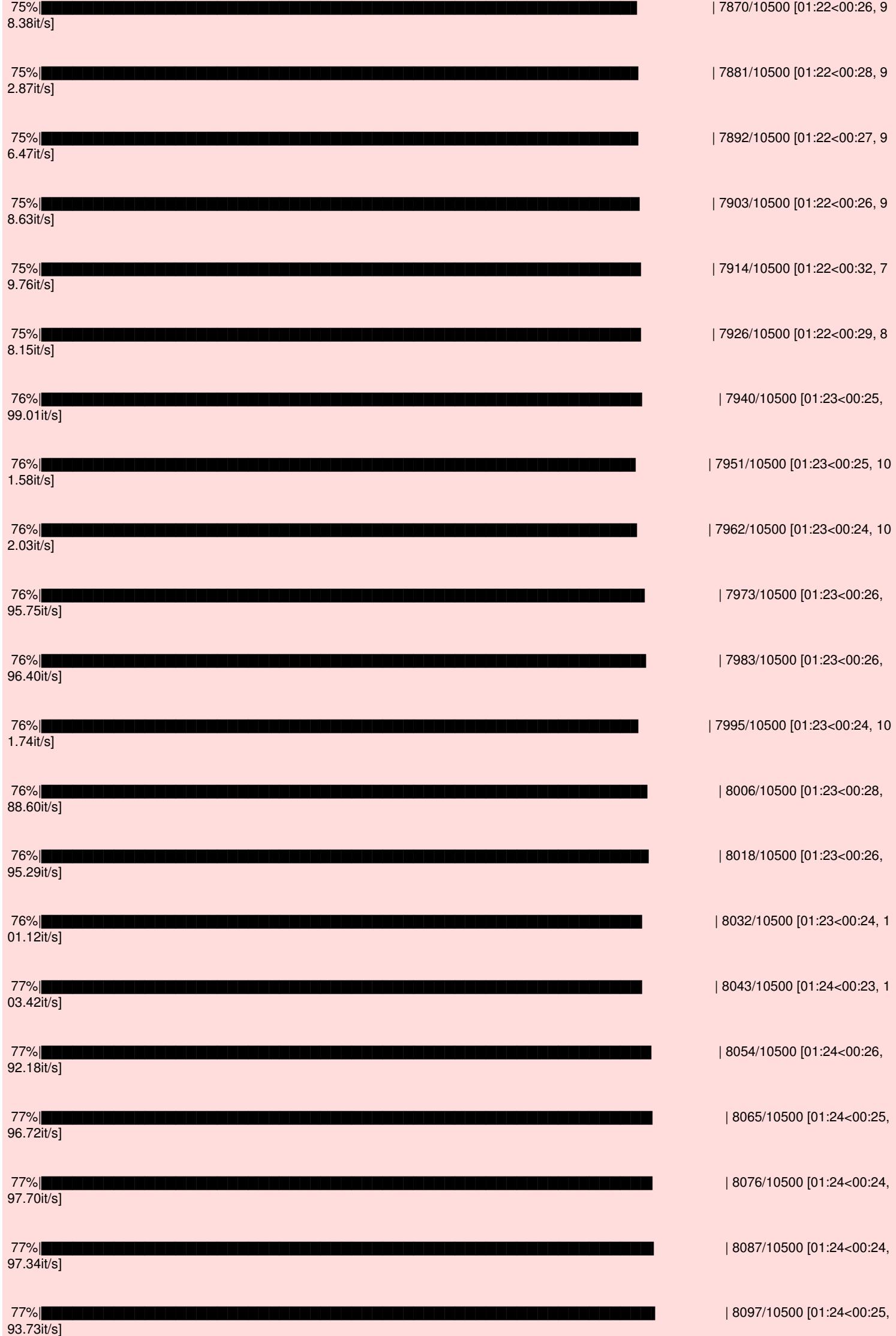
73%
81it/s]

| 7626/10500 [01:19<00:29, 97.

73%
75it/s]

| 7637/10500 [01:19<00:31, 89.

73% .31it/s]	7648/10500 [01:19<00:30, 94.
73% .73it/s]	7659/10500 [01:20<00:29, 96
73% .46it/s]	7669/10500 [01:20<00:32, 87
73% .87it/s]	7679/10500 [01:20<00:34, 82
73% .41it/s]	7689/10500 [01:20<00:32, 86
73% .10it/s]	7698/10500 [01:20<00:33, 84
73% .91it/s]	7708/10500 [01:20<00:31, 87
74% .90it/s]	7719/10500 [01:20<00:29, 92
74% .25it/s]	7730/10500 [01:20<00:28, 97
74% .67it/s]	7741/10500 [01:21<00:27, 98
74% .95it/s]	7752/10500 [01:21<00:29, 91
74% .52it/s]	7763/10500 [01:21<00:28, 96
74% 5.38it/s]	7777/10500 [01:21<00:25, 10
74% 2.67it/s]	7788/10500 [01:21<00:26, 10
74% 5.13it/s]	7799/10500 [01:21<00:28, 9
74% 2.77it/s]	7809/10500 [01:21<00:29, 9
75% 4.74it/s]	7824/10500 [01:21<00:25, 10
75% 5.66it/s]	7836/10500 [01:21<00:27, 9
75% 9.47it/s]	7847/10500 [01:22<00:26, 9
75% 3.21it/s]	7859/10500 [01:22<00:25, 10



77% [93.10it/s]	8108/10500 [01:24<00:25,
77% [01.18it/s]	8121/10500 [01:24<00:23, 1
77% [00.39it/s]	8132/10500 [01:24<00:23, 1
78% [09.06it/s]	8147/10500 [01:25<00:21, 1
78% [00.70it/s]	8159/10500 [01:25<00:23, 1
78% [92.21it/s]	8170/10500 [01:25<00:25,
78% [100.15it/s]	8183/10500 [01:25<00:23,
78% [83.75it/s]	8194/10500 [01:25<00:27,
78% [7, 83.48it/s]	8204/10500 [01:25<00:2
78% [6, 87.66it/s]	8214/10500 [01:25<00:2
78% [4, 91.10it/s]	8225/10500 [01:25<00:2
78% [4, 91.11it/s]	8235/10500 [01:26<00:2
79% [5, 88.59it/s]	8245/10500 [01:26<00:2
79% [4, 90.06it/s]	8255/10500 [01:26<00:2
79% [5, 86.93it/s]	8265/10500 [01:26<00:2
79% [5, 85.79it/s]	8274/10500 [01:26<00:2
79% [4, 89.55it/s]	8284/10500 [01:26<00:2
79% [4, 90.63it/s]	8294/10500 [01:26<00:2
79% [3, 94.70it/s]	8305/10500 [01:26<00:2
79% [4, 88.71it/s]	8315/10500 [01:27<00:2
79% [4, 88.71it/s]	8326/10500 [01:27<00:2

3, 92.07it/s]

79%||
2, 96.38it/s]

| 8337/10500 [01:27<00:2

79%||
2, 97.41it/s]

| 8347/10500 [01:27<00:2

80%||
4, 87.73it/s]

| 8357/10500 [01:27<00:2

80%||
3, 89.80it/s]

| 8367/10500 [01:27<00:2

80%||
4, 87.83it/s]

| 8377/10500 [01:27<00:2

80%||
2, 92.37it/s]

| 8388/10500 [01:27<00:2

80%||
4, 86.75it/s]

| 8398/10500 [01:27<00:2

80%||
1, 96.00it/s]

| 8411/10500 [01:28<00:2

80%||
3, 88.15it/s]

| 8422/10500 [01:28<00:2

80%||
3, 89.03it/s]

| 8432/10500 [01:28<00:2

80%||
2, 90.02it/s]

| 8442/10500 [01:28<00:2

80%||
2, 90.29it/s]

| 8452/10500 [01:28<00:2

81%||
0, 97.52it/s]

| 8464/10500 [01:28<00:2

81%||
20, 98.77it/s]

| 8475/10500 [01:28<00:

81%||
21, 93.62it/s]

| 8486/10500 [01:28<00:

81%||
21, 92.75it/s]

| 8496/10500 [01:28<00:

81%||
24, 81.84it/s]

| 8506/10500 [01:29<00:

81%||
23, 85.77it/s]

| 8516/10500 [01:29<00:

81%||
20, 95.40it/s]

| 8529/10500 [01:29<00:

81%||
19, 99.18it/s]

| 8541/10500 [01:29<00:

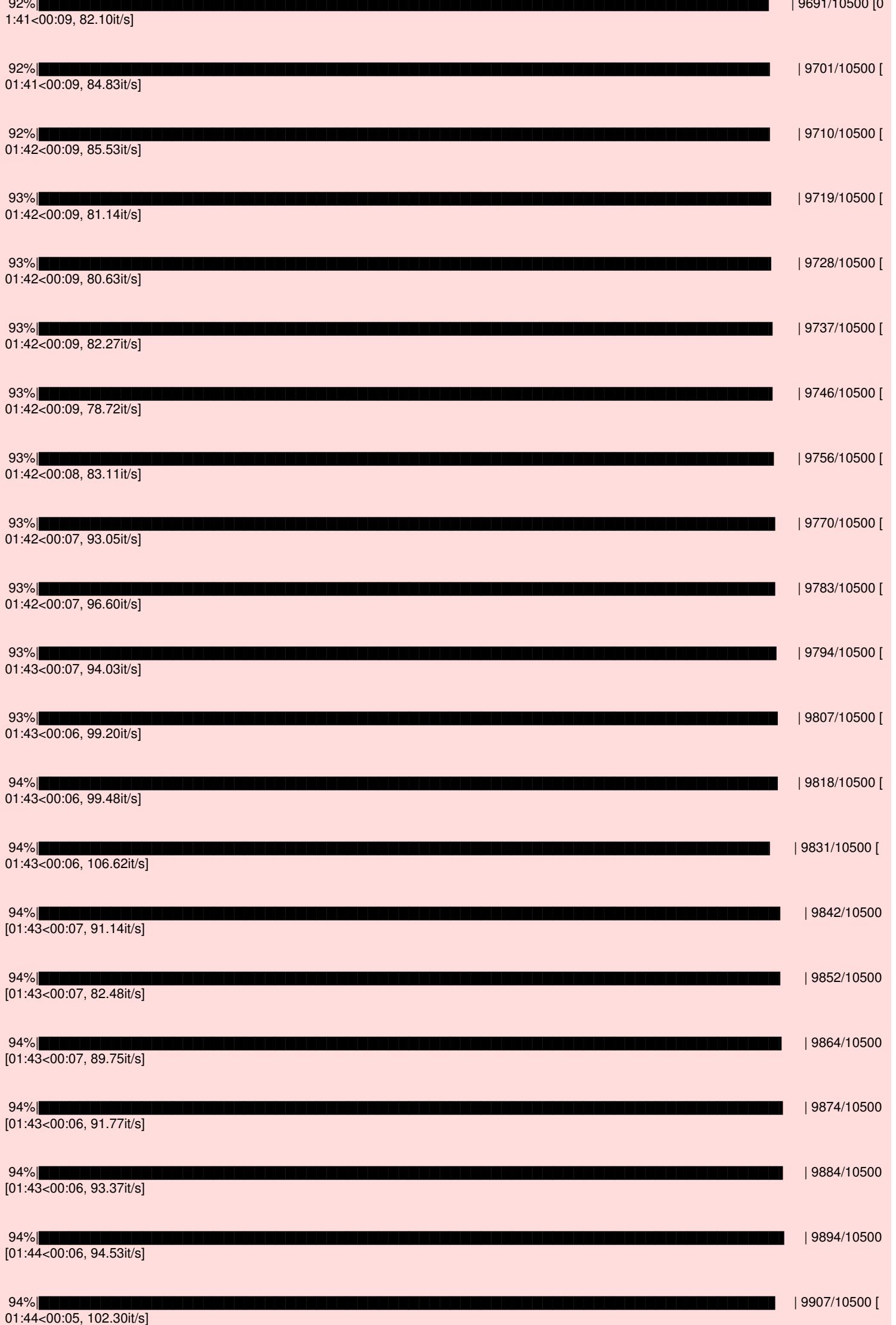
81% [19, 97.79it/s]	8552/10500 [01:29<00:
82% [20, 94.80it/s]	8563/10500 [01:29<00:
82% [20, 93.62it/s]	8573/10500 [01:29<00:
82% [19, 96.52it/s]	8584/10500 [01:29<00:
82% [19, 97.47it/s]	8594/10500 [01:29<00:
82% [22, 83.61it/s]	8604/10500 [01:30<00:
82% [0:20, 93.11it/s]	8618/10500 [01:30<0
82% [0:20, 90.51it/s]	8628/10500 [01:30<0
82% [0:24, 77.10it/s]	8638/10500 [01:30<0
82% [0:20, 88.95it/s]	8653/10500 [01:30<0
83% [0:18, 97.39it/s]	8666/10500 [01:30<0
83% [0:19, 94.39it/s]	8677/10500 [01:30<0
83% [17, 103.73it/s]	8692/10500 [01:30<00:
83% [0:18, 97.62it/s]	8704/10500 [01:31<00:
83% [16, 106.70it/s]	8719/10500 [01:31<00:
83% [17, 102.32it/s]	8731/10500 [01:31<00:
83% [17, 101.05it/s]	8742/10500 [01:31<00:
83% [16, 103.55it/s]	8753/10500 [01:31<00:
83% [0:17, 97.22it/s]	8764/10500 [01:31<
84% [17, 100.68it/s]	8775/10500 [01:31<00:
84% [0:18, 92.85it/s]	8786/10500 [01:31<

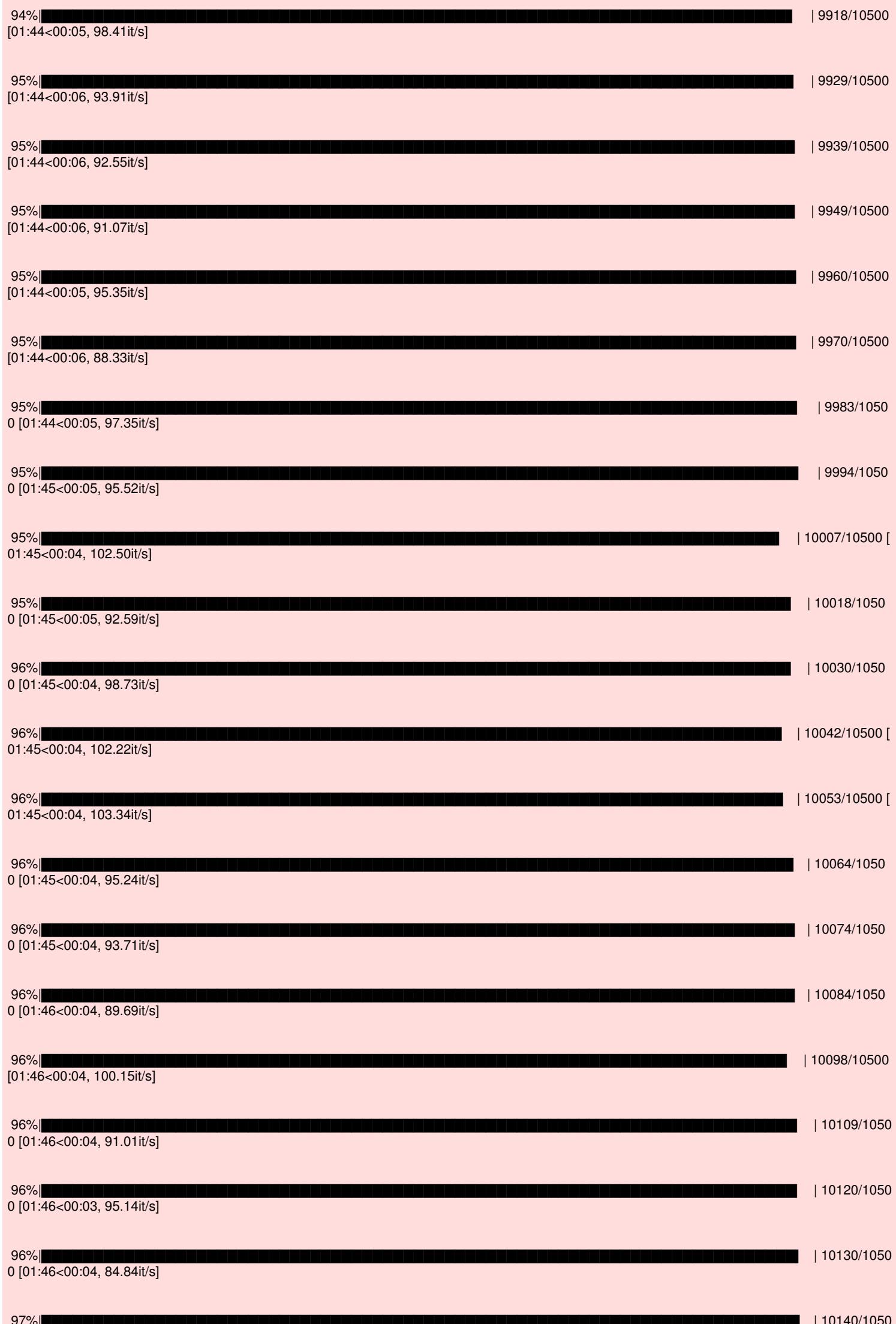
84% [00:19, 85.44it/s]	8796/10500 [01:32<
84% [00:19, 86.72it/s]	8805/10500 [01:32<
84% [00:18, 89.47it/s]	8816/10500 [01:32<
84% [00:21, 79.06it/s]	8826/10500 [01:32<
84% [00:19, 84.28it/s]	8837/10500 [01:32<
84% [00:18, 89.40it/s]	8848/10500 [01:32<
84% [00:17, 92.26it/s]	8858/10500 [01:32<
84% [00:16, 97.86it/s]	8871/10500 [01:32<
85% [<00:16, 98.80it/s]	8882/10500 [01:32
85% [<00:17, 93.89it/s]	8893/10500 [01:33
85% [<00:17, 89.00it/s]	8903/10500 [01:33
85% [<00:18, 84.68it/s]	8913/10500 [01:33
85% [<00:18, 85.06it/s]	8922/10500 [01:33
85% [<00:17, 88.90it/s]	8933/10500 [01:33
85% [<00:15, 99.04it/s]	8947/10500 [01:33
85% [<00:16, 91.26it/s]	8958/10500 [01:33
85% [<00:17, 87.41it/s]	8968/10500 [01:33
86% [<00:15, 96.78it/s]	8981/10500 [01:34
86% [<00:15, 94.73it/s]	8992/10500 [01:34
86% [00:14, 101.30it/s]	9005/10500 [01:34<
86%	9016/10500 [01:34

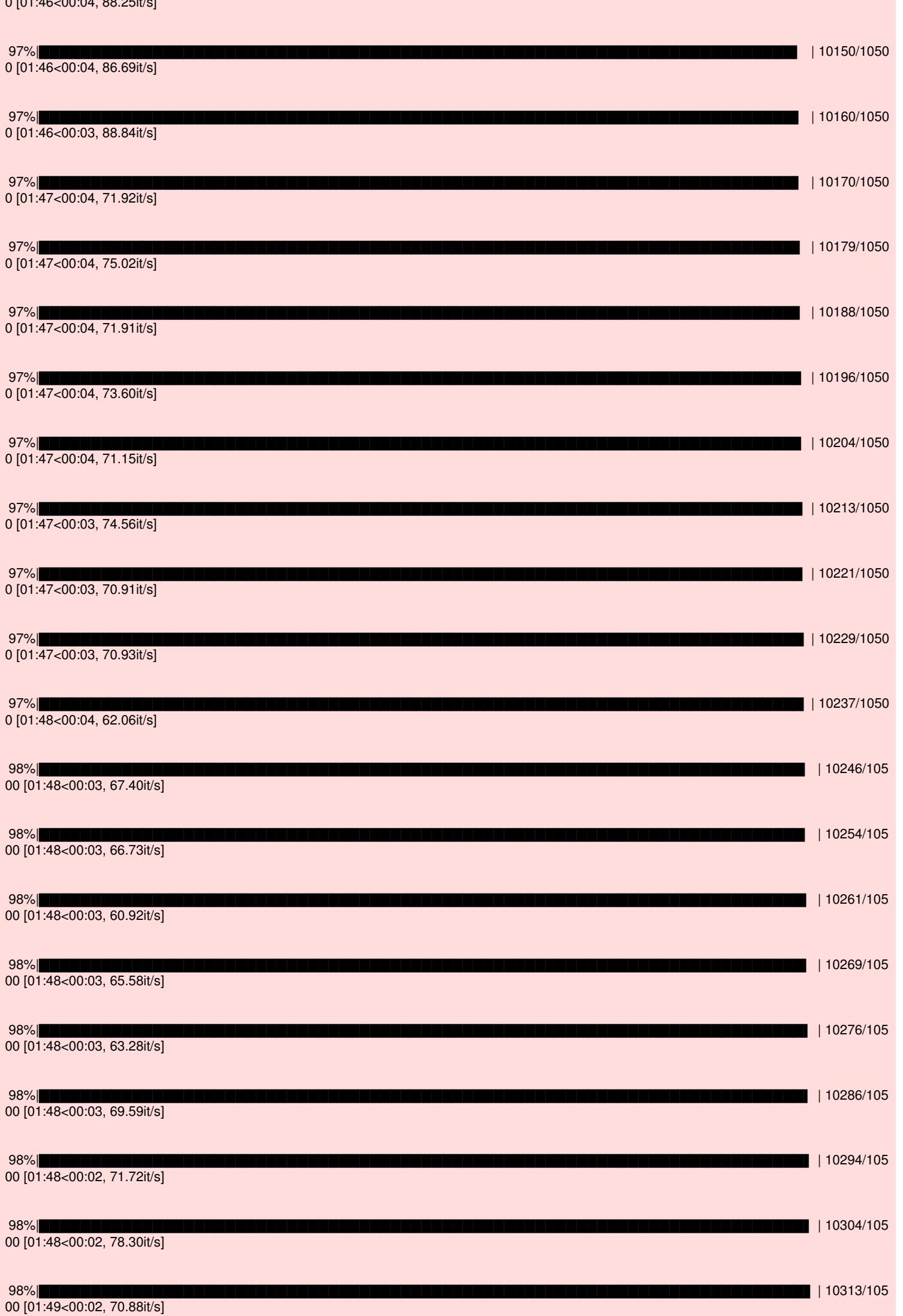
<00:15, 94.26it/s]	9026/10500 [01:34
86% <00:15, 95.03it/s]	9036/10500 [01:34
86% <00:14, 97.70it/s]	9048/10500 [01:34
86% <00:14, 97.93it/s]	9059/10500 [01:34
86% 00:14, 100.35it/s]	9071/10500 [01:34<
86% 00:13, 101.43it/s]	9082/10500 [01:35<
87% <00:14, 94.58it/s]	9093/10500 [01:35
87% <00:14, 99.59it/s]	9105/10500 [01:35
87% <00:14, 93.70it/s]	9116/10500 [01:35
87% <00:15, 91.20it/s]	9126/10500 [01:35
87% <00:14, 96.09it/s]	9137/10500 [01:35
87% <00:16, 81.92it/s]	9147/10500 [01:35
87% 5<00:15, 87.40it/s]	9159/10500 [01:3
87% 6<00:13, 98.02it/s]	9174/10500 [01:3
87% 6<00:14, 93.58it/s]	9185/10500 [01:3
88% 6<00:14, 87.76it/s]	9195/10500 [01:3
88% 6<00:13, 96.42it/s]	9208/10500 [01:3
88% 6<00:13, 93.46it/s]	9219/10500 [01:3
88% 6<00:13, 94.30it/s]	9229/10500 [01:3
88% 6<00:14, 86.92it/s]	9239/10500 [01:3



90% :39<00:10, 97.13it/s]	9488/10500 [01
90% :39<00:10, 91.59it/s]	9499/10500 [01
91% :39<00:11, 88.05it/s]	9509/10500 [01
91% :39<00:11, 85.25it/s]	9519/10500 [01
91% :39<00:10, 89.25it/s]	9530/10500 [01
91% :40<00:11, 82.97it/s]	9540/10500 [01
91% :40<00:10, 87.50it/s]	9551/10500 [01
91% :40<00:11, 83.56it/s]	9561/10500 [01
91% 1:40<00:11, 79.09it/s]	9570/10500 [0
91% 1:40<00:12, 75.90it/s]	9579/10500 [0
91% 1:40<00:11, 77.08it/s]	9587/10500 [0
91% 1:40<00:13, 67.31it/s]	9595/10500 [0
91% 1:40<00:12, 72.93it/s]	9605/10500 [0
92% 1:41<00:12, 73.71it/s]	9613/10500 [0
92% 1:41<00:11, 77.12it/s]	9622/10500 [0
92% 1:41<00:10, 79.31it/s]	9631/10500 [0
92% 1:41<00:09, 87.45it/s]	9643/10500 [0
92% 1:41<00:08, 96.17it/s]	9656/10500 [0
92% 1:41<00:10, 82.04it/s]	9667/10500 [0
92% 1:41<00:09, 88.25it/s]	9681/10500 [0
92% 1:41<00:08, 96.17it/s]	9694/10500 [0







98% | 10339/105
00 [01:49<00:01, 89.31it/s]99% | 10349/105
00 [01:49<00:01, 80.74it/s]99% | 10363/105
00 [01:49<00:01, 91.45it/s]99% | 10374/105
00 [01:49<00:01, 93.27it/s]99% | 10385/105
500 [01:49<00:01, 95.14it/s]99% | 10397/105
00 [01:49<00:01, 100.24it/s]99% | 10408/10
500 [01:50<00:01, 88.86it/s]99% | 10422/10
500 [01:50<00:00, 99.01it/s]99% | 10433/10
500 [01:50<00:00, 99.92it/s]100% | 10451/105
00 [01:50<00:00, 113.30it/s]100% | 10464/105
00 [01:50<00:00, 103.02it/s]100% | 10476/105
00 [01:50<00:00, 105.59it/s]100% | 10488/105
00 [01:50<00:00, 108.45it/s]100% | 10500/105
00 [01:50<00:00, 103.08it/s]

(10500, 50)
[-0.37540723 -0.60159743 1.13134947 0.02000517 0.4852854 -0.17532386
0.19398428 -0.17556599 0.0941947 -0.14337677 0.13731595 -0.40339767
0.25858289 -0.52284009 0.40918004 -0.22854042 -0.88721971 0.38792472
0.06551205 0.5683177 -0.77436922 0.14948932 -0.66046332 0.05126024
0.54378112 -0.62352757 0.29138186 0.37247571 0.90837321 -0.06330698
0.38690153 -0.34611257 0.41022865 -0.20176875 0.86130643 -0.13230384
0.04294342 0.30467631 0.60752616 -0.12353067 0.49798427 0.38614218
0.66197663 0.14361331 -0.43289103 0.14262537 0.49846552 0.03857679
-0.0557564 0.12312158]

In [297]:

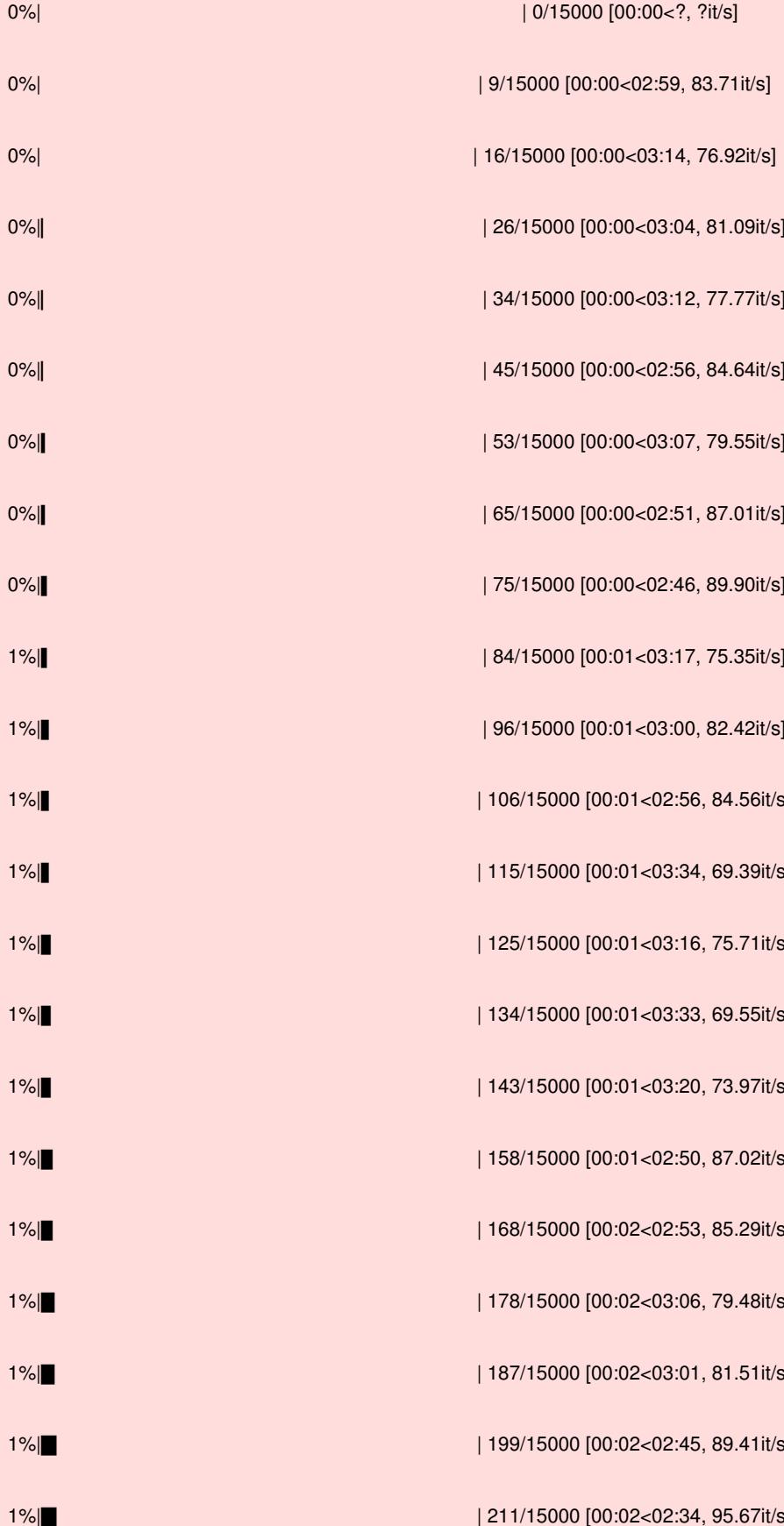
```
i=0
list_of_sentance_test_essay=[]
for sentance in X_test_df['Preprocessed_Essay'].values:
    list_of_sentance_test_essay.append(sentance.split())

sent_vectors_test_essay = [] # the avg-w2v for each sentence/review is stored in this list
for sent in tdm(list_of_sentance_test_essay): # for each review/sentence
```

```

for sent in tqa_train.sentences_test_essay:
    sent_vec = np.zeros(50) # as word vectors are of zero length 50, you might need to change this to 300 if you use google's w2v
    cnt_words = 0; # num of words with a valid vector in the sentence/review
    for word in sent: # for each word in a review/sentence
        if word in w2v_words1:
            vec = w2v_model1.wv[word]
            sent_vec += vec
            cnt_words += 1
    if cnt_words != 0:
        sent_vec /= cnt_words
    sent_vectors_test_essay.append(sent_vec)
sent_vectors_test_essay = np.array(sent_vectors_test_essay)
print(sent_vectors_test_essay.shape)
print(sent_vectors_test_essay[0])

```



1% █	222/15000 [00:02<02:49, 87.05it/s]
2% █	232/15000 [00:02<02:44, 89.60it/s]
2% █	242/15000 [00:02<02:55, 83.99it/s]
2% █	251/15000 [00:03<03:12, 76.68it/s]
2% █	261/15000 [00:03<03:03, 80.47it/s]
2% █	273/15000 [00:03<02:49, 86.88it/s]
2% █	283/15000 [00:03<02:54, 84.47it/s]
2% █	296/15000 [00:03<02:38, 92.99it/s]
2% █	306/15000 [00:03<02:54, 84.09it/s]
2% █	315/15000 [00:03<02:52, 85.30it/s]
2% █	329/15000 [00:03<02:33, 95.69it/s]
2% █	340/15000 [00:03<02:43, 89.89it/s]
2% █	350/15000 [00:04<02:47, 87.43it/s]
2% █	365/15000 [00:04<02:28, 98.23it/s]
3% █	376/15000 [00:04<02:25, 100.44it/s]
3% █	389/15000 [00:04<02:24, 100.85it/s]
3% █	400/15000 [00:04<02:33, 95.20it/s]
3% █	414/15000 [00:04<02:18, 105.25it/s]
3% █	426/15000 [00:04<02:20, 103.84it/s]
3% █	437/15000 [00:04<02:25, 99.84it/s]
3% █	448/15000 [00:04<02:21, 102.64it/s]
3% █	460/15000 [00:05<02:19, 104.47it/s]
3% █	471/15000 [00:05<02:36, 92.87it/s]
3% █	481/15000 [00:05<02:33, 94.79it/s]
3% █	493/15000 [00:05<02:26, 98.71it/s]
3% █	504/15000 [00:05<02:23, 100.74it/s]
3% █	515/15000 [00:05<03:01, 79.80it/s]
3% █	524/15000 [00:05<02:59, 80.76it/s]

4% ██████	534/15000 [00:05<02:49, 85.33it/s]
4% ██████	543/15000 [00:06<02:57, 81.68it/s]
4% ██████	553/15000 [00:06<02:50, 84.95it/s]
4% ██████	562/15000 [00:06<02:47, 86.22it/s]
4% ██████	571/15000 [00:06<02:49, 85.16it/s]
4% ██████	582/15000 [00:06<02:39, 90.29it/s]
4% ██████	595/15000 [00:06<02:27, 97.60it/s]
4% ██████	606/15000 [00:06<02:37, 91.53it/s]
4% ██████	617/15000 [00:06<02:31, 94.71it/s]
4% ██████	630/15000 [00:06<02:19, 102.68it/s]
4% ██████	641/15000 [00:07<02:55, 81.59it/s]
4% ██████	655/15000 [00:07<02:34, 92.71it/s]
4% ██████	666/15000 [00:07<02:31, 94.85it/s]
5% █████	677/15000 [00:07<02:46, 86.24it/s]
5% █████	690/15000 [00:07<02:31, 94.18it/s]
5% █████	701/15000 [00:07<02:48, 84.75it/s]
5% █████	711/15000 [00:07<02:59, 79.65it/s]
5% █████	720/15000 [00:08<03:03, 77.99it/s]
5% █████	729/15000 [00:08<02:58, 80.01it/s]
5% █████	738/15000 [00:08<02:57, 80.47it/s]
5% █████	747/15000 [00:08<03:05, 76.83it/s]
5% █████	758/15000 [00:08<02:52, 82.56it/s]
5% █████	767/15000 [00:08<02:55, 81.22it/s]
5% █████	779/15000 [00:08<02:38, 89.47it/s]
5% █████	789/15000 [00:08<02:38, 89.49it/s]
5% █████	800/15000 [00:08<02:30, 94.61it/s]
5% █████	810/15000 [00:09<02:49, 83.81it/s]

5% ██████	823/15000 [00:09<02:31, 93.66it/s]
6% ██████	834/15000 [00:09<02:43, 86.76it/s]
6% ██████	844/15000 [00:09<02:37, 89.68it/s]
6% ██████	857/15000 [00:09<02:23, 98.72it/s]
6% ██████	868/15000 [00:09<02:25, 97.39it/s]
6% ██████	881/15000 [00:09<02:20, 100.47it/s]
6% ██████	892/15000 [00:09<02:20, 100.33it/s]
6% ██████	903/15000 [00:10<02:28, 95.14it/s]
6% ██████	913/15000 [00:10<02:31, 93.03it/s]
6% ██████	923/15000 [00:10<02:39, 88.07it/s]
6% ██████	933/15000 [00:10<02:38, 88.95it/s]
6% ██████	943/15000 [00:10<02:37, 89.53it/s]
6% ██████	953/15000 [00:10<02:45, 84.90it/s]
6% ██████	963/15000 [00:10<02:38, 88.52it/s]
6% ██████	972/15000 [00:10<02:57, 78.98it/s]
7% ██████	981/15000 [00:10<02:53, 80.95it/s]
7% ██████	994/15000 [00:11<02:33, 90.95it/s]
7% ██████	1004/15000 [00:11<02:37, 89.07it/s]
7% ██████	1014/15000 [00:11<02:33, 90.90it/s]
7% ██████	1025/15000 [00:11<02:26, 95.22it/s]
7% ██████	1038/15000 [00:11<02:15, 102.86it/s]
7% ██████	1053/15000 [00:11<02:05, 111.14it/s]
7% ██████	1065/15000 [00:11<02:10, 106.52it/s]
7% ██████	1077/15000 [00:11<02:06, 110.09it/s]
7% ██████	1089/15000 [00:11<02:06, 109.87it/s]
7% ██████	1101/15000 [00:12<02:29, 92.97it/s]
7% ██████	1116/15000 [00:12<02:15, 102.67it/s]
8% ██████	1129/15000 [00:12<02:13, 104.24it/s]

8% ███████	1145/15000 [00:12<02:01, 114.01it/s]
8% ███████	1158/15000 [00:12<02:11, 105.54it/s]
8% ███████	1170/15000 [00:12<02:19, 98.88it/s]
8% ███████	1181/15000 [00:12<02:15, 101.78it/s]
8% ███████	1192/15000 [00:12<02:14, 102.44it/s]
8% ███████	1203/15000 [00:13<02:24, 95.42it/s]
8% ███████	1214/15000 [00:13<02:21, 97.65it/s]
8% ███████	1224/15000 [00:13<02:34, 89.39it/s]
8% ███████	1234/15000 [00:13<02:41, 85.36it/s]
8% ███████	1244/15000 [00:13<02:34, 89.20it/s]
8% ███████	1254/15000 [00:13<02:44, 83.51it/s]
8% ███████	1263/15000 [00:13<02:56, 77.85it/s]
9% ███████	1278/15000 [00:13<02:34, 89.00it/s]
9% ███████	1288/15000 [00:14<02:41, 84.75it/s]
9% ███████	1299/15000 [00:14<02:30, 90.85it/s]
9% ███████	1310/15000 [00:14<02:23, 95.42it/s]
9% ███████	1320/15000 [00:14<02:26, 93.57it/s]
9% ███████	1333/15000 [00:14<02:18, 98.97it/s]
9% ███████	1344/15000 [00:14<02:18, 98.42it/s]
9% ███████	1355/15000 [00:14<02:17, 98.91it/s]
9% ███████	1366/15000 [00:14<02:28, 91.72it/s]
9% ███████	1379/15000 [00:14<02:19, 97.55it/s]
9% ███████	1390/15000 [00:15<02:28, 91.74it/s]
9% ███████	1403/15000 [00:15<02:19, 97.44it/s]
9% ███████	1417/15000 [00:15<02:09, 105.08it/s]
10% ███████	1430/15000 [00:15<02:05, 108.43it/s]
10% ███████	1444/15000 [00:15<01:56, 116.25it/s]

10%	███████████	1456/15000 [00:15<02:03, 109.50it/s]
10%	███████████	1468/15000 [00:15<02:08, 105.16it/s]
10%	███████████	1482/15000 [00:15<01:59, 113.17it/s]
10%	███████████	1494/15000 [00:16<02:03, 109.26it/s]
10%	███████████	1506/15000 [00:16<02:12, 102.06it/s]
10%	███████████	1517/15000 [00:16<02:16, 99.06it/s]
10%	███████████	1529/15000 [00:16<02:11, 102.20it/s]
10%	███████████	1540/15000 [00:16<02:20, 96.04it/s]
10%	███████████	1550/15000 [00:16<02:23, 93.71it/s]
10%	███████████	1561/15000 [00:16<02:20, 95.59it/s]
10%	███████████	1573/15000 [00:16<02:15, 99.23it/s]
11%	███████████	1584/15000 [00:16<02:16, 98.36it/s]
11%	███████████	1594/15000 [00:17<02:27, 90.81it/s]
11%	███████████	1604/15000 [00:17<02:25, 91.81it/s]
11%	███████████	1615/15000 [00:17<02:18, 96.58it/s]
11%	███████████	1628/15000 [00:17<02:08, 103.69it/s]
11%	███████████	1639/15000 [00:17<02:12, 100.88it/s]
11%	███████████	1650/15000 [00:17<02:18, 96.13it/s]
11%	███████████	1662/15000 [00:17<02:14, 99.26it/s]
11%	███████████	1673/15000 [00:17<02:13, 99.83it/s]
11%	███████████	1684/15000 [00:17<02:11, 101.62it/s]
11%	███████████	1695/15000 [00:18<02:27, 90.28it/s]
11%	███████████	1709/15000 [00:18<02:12, 100.66it/s]
11%	███████████	1722/15000 [00:18<02:03, 107.78it/s]
12%	███████████	1734/15000 [00:18<02:14, 98.91it/s]
12%	███████████	1745/15000 [00:18<02:12, 100.40it/s]
12%	███████████	1759/15000 [00:18<02:01, 109.32it/s]
12%	███████████	1771/15000 [00:18<02:06, 104.87it/s]

12% [REDACTED]	1786/15000 [00:18<01:54, 114.99it/s]
12% [REDACTED]	1799/15000 [00:19<01:59, 110.48it/s]
12% [REDACTED]	1811/15000 [00:19<02:31, 87.06it/s]
12% [REDACTED]	1821/15000 [00:19<02:25, 90.54it/s]
12% [REDACTED]	1833/15000 [00:19<02:16, 96.77it/s]
12% [REDACTED]	1845/15000 [00:19<02:09, 101.25it/s]
12% [REDACTED]	1856/15000 [00:19<02:17, 95.65it/s]
12% [REDACTED]	1866/15000 [00:19<02:39, 82.20it/s]
12% [REDACTED]	1875/15000 [00:19<02:38, 82.60it/s]
13% [REDACTED]	1884/15000 [00:20<03:02, 71.98it/s]
13% [REDACTED]	1892/15000 [00:20<03:00, 72.65it/s]
13% [REDACTED]	1904/15000 [00:20<02:39, 81.86it/s]
13% [REDACTED]	1917/15000 [00:20<02:22, 92.04it/s]
13% [REDACTED]	1928/15000 [00:20<02:17, 94.73it/s]
13% [REDACTED]	1940/15000 [00:20<02:10, 99.87it/s]
13% [REDACTED]	1951/15000 [00:20<02:09, 101.09it/s]
13% [REDACTED]	1964/15000 [00:20<02:00, 108.12it/s]
13% [REDACTED]	1977/15000 [00:20<01:55, 112.76it/s]
13% [REDACTED]	1989/15000 [00:21<02:12, 98.31it/s]
13% [REDACTED]	2000/15000 [00:21<02:25, 89.50it/s]
13% [REDACTED]	2011/15000 [00:21<02:18, 93.66it/s]
13% [REDACTED]	2022/15000 [00:21<02:13, 97.18it/s]
14% [REDACTED]	2033/15000 [00:21<02:19, 92.85it/s]
14% [REDACTED]	2043/15000 [00:21<02:16, 94.80it/s]
14% [REDACTED]	2054/15000 [00:21<02:15, 95.88it/s]
14% [REDACTED]	2067/15000 [00:21<02:05, 103.07it/s]
14% [REDACTED]	2078/15000 [00:22<02:10, 98.65it/s]

14%	███████████	2089/15000 [00:22<02:09, 99.94it/s]
14%	███████████	2100/15000 [00:22<02:12, 97.13it/s]
14%	███████████	2114/15000 [00:22<02:01, 106.29it/s]
14%	███████████	2125/15000 [00:22<02:22, 90.30it/s]
14%	███████████	2135/15000 [00:22<02:34, 83.12it/s]
14%	███████████	2145/15000 [00:22<02:27, 86.93it/s]
14%	███████████	2155/15000 [00:22<02:36, 82.09it/s]
14%	███████████	2166/15000 [00:23<02:29, 86.00it/s]
14%	███████████	2175/15000 [00:23<02:30, 85.25it/s]
15%	███████████	2184/15000 [00:23<02:43, 78.34it/s]
15%	███████████	2194/15000 [00:23<02:34, 82.69it/s]
15%	███████████	2208/15000 [00:23<02:16, 93.84it/s]
15%	███████████	2219/15000 [00:23<02:13, 95.43it/s]
15%	███████████	2233/15000 [00:23<02:02, 104.22it/s]
15%	███████████	2245/15000 [00:23<02:10, 97.83it/s]
15%	███████████	2256/15000 [00:23<02:12, 95.97it/s]
15%	███████████	2266/15000 [00:24<02:26, 86.98it/s]
15%	███████████	2276/15000 [00:24<02:40, 79.14it/s]
15%	███████████	2289/15000 [00:24<02:24, 87.66it/s]
15%	███████████	2302/15000 [00:24<02:12, 95.85it/s]
15%	███████████	2313/15000 [00:24<02:12, 96.03it/s]
15%	███████████	2324/15000 [00:24<02:22, 89.14it/s]
16%	███████████	2334/15000 [00:24<02:27, 85.82it/s]
16%	███████████	2345/15000 [00:24<02:19, 90.80it/s]
16%	███████████	2356/15000 [00:25<02:13, 94.90it/s]
16%	███████████	2366/15000 [00:25<02:24, 87.37it/s]
16%	███████████	2381/15000 [00:25<02:07, 98.95it/s]
16%	███████████	2394/15000 [00:25<01:58, 106.13it/s]

16% [REDACTED]	2406/15000 [00:25<02:19, 90.23it/s]
16% [REDACTED]	2416/15000 [00:25<02:21, 89.05it/s]
16% [REDACTED]	2428/15000 [00:25<02:14, 93.65it/s]
16% [REDACTED]	2438/15000 [00:25<02:15, 92.76it/s]
16% [REDACTED]	2448/15000 [00:26<02:20, 89.19it/s]
16% [REDACTED]	2458/15000 [00:26<02:20, 89.16it/s]
16% [REDACTED]	2468/15000 [00:26<02:20, 89.51it/s]
17% [REDACTED]	2481/15000 [00:26<02:07, 98.57it/s]
17% [REDACTED]	2492/15000 [00:26<02:07, 98.02it/s]
17% [REDACTED]	2503/15000 [00:26<02:10, 96.02it/s]
17% [REDACTED]	2515/15000 [00:26<02:02, 101.92it/s]
17% [REDACTED]	2526/15000 [00:26<02:01, 102.49it/s]
17% [REDACTED]	2537/15000 [00:26<02:12, 93.88it/s]
17% [REDACTED]	2547/15000 [00:27<02:30, 82.90it/s]
17% [REDACTED]	2557/15000 [00:27<02:28, 83.78it/s]
17% [REDACTED]	2570/15000 [00:27<02:13, 92.98it/s]
17% [REDACTED]	2580/15000 [00:27<02:13, 93.34it/s]
17% [REDACTED]	2592/15000 [00:27<02:05, 98.96it/s]
17% [REDACTED]	2603/15000 [00:27<02:03, 100.38it/s]
17% [REDACTED]	2614/15000 [00:27<02:04, 99.19it/s]
18% [REDACTED]	2626/15000 [00:27<02:00, 103.09it/s]
18% [REDACTED]	2637/15000 [00:28<02:15, 91.01it/s]
18% [REDACTED]	2649/15000 [00:28<02:07, 96.69it/s]
18% [REDACTED]	2662/15000 [00:28<01:57, 104.74it/s]
18% [REDACTED]	2673/15000 [00:28<02:02, 100.41it/s]
18% [REDACTED]	2684/15000 [00:28<02:16, 90.39it/s]
18% [REDACTED]	2695/15000 [00:28<02:08, 95.48it/s]

18%	███████████	2707/15000 [00:28<02:03, 99.41it/s]
18%	███████████	2720/15000 [00:28<01:55, 106.13it/s]
18%	███████████	2731/15000 [00:28<02:21, 86.41it/s]
18%	███████████	2743/15000 [00:29<02:13, 92.01it/s]
18%	███████████	2753/15000 [00:29<02:19, 87.89it/s]
18%	███████████	2764/15000 [00:29<02:13, 91.50it/s]
18%	███████████	2775/15000 [00:29<02:07, 95.67it/s]
19%	███████████	2785/15000 [00:29<02:11, 93.22it/s]
19%	███████████	2795/15000 [00:29<02:13, 91.60it/s]
19%	███████████	2806/15000 [00:29<02:06, 96.44it/s]
19%	███████████	2816/15000 [00:29<02:24, 84.37it/s]
19%	███████████	2827/15000 [00:30<02:14, 90.28it/s]
19%	███████████	2840/15000 [00:30<02:03, 98.23it/s]
19%	███████████	2851/15000 [00:30<02:06, 96.27it/s]
19%	███████████	2861/15000 [00:30<02:31, 79.98it/s]
19%	███████████	2873/15000 [00:30<02:19, 87.15it/s]
19%	███████████	2884/15000 [00:30<02:12, 91.33it/s]
19%	███████████	2894/15000 [00:30<02:14, 90.17it/s]
19%	███████████	2904/15000 [00:30<02:16, 88.66it/s]
19%	███████████	2915/15000 [00:30<02:10, 92.89it/s]
20%	███████████	2925/15000 [00:31<02:10, 92.48it/s]
20%	███████████	2937/15000 [00:31<02:02, 98.65it/s]
20%	███████████	2948/15000 [00:31<02:26, 82.27it/s]
20%	███████████	2958/15000 [00:31<02:22, 84.53it/s]
20%	███████████	2970/15000 [00:31<02:13, 90.30it/s]
20%	███████████	2985/15000 [00:31<01:58, 101.02it/s]
20%	███████████	2996/15000 [00:31<01:57, 101.86it/s]
20%	███████████	3007/15000 [00:31<01:59, 100.15it/s]

20%	[redacted]	3018/15000 [00:32<02:04, 95.95it/s]
20%	[redacted]	3028/15000 [00:32<02:10, 91.75it/s]
20%	[redacted]	3039/15000 [00:32<02:05, 95.62it/s]
20%	[redacted]	3049/15000 [00:32<02:07, 94.00it/s]
20%	[redacted]	3061/15000 [00:32<02:01, 98.26it/s]
20%	[redacted]	3074/15000 [00:32<01:54, 104.37it/s]
21%	[redacted]	3085/15000 [00:32<01:56, 102.19it/s]
21%	[redacted]	3096/15000 [00:32<02:25, 81.68it/s]
21%	[redacted]	3106/15000 [00:33<02:18, 85.67it/s]
21%	[redacted]	3116/15000 [00:33<02:16, 87.24it/s]
21%	[redacted]	3128/15000 [00:33<02:08, 92.71it/s]
21%	[redacted]	3139/15000 [00:33<02:03, 95.82it/s]
21%	[redacted]	3149/15000 [00:33<02:03, 96.05it/s]
21%	[redacted]	3160/15000 [00:33<02:00, 98.08it/s]
21%	[redacted]	3170/15000 [00:33<02:01, 97.23it/s]
21%	[redacted]	3180/15000 [00:33<02:16, 86.45it/s]
21%	[redacted]	3193/15000 [00:33<02:08, 91.89it/s]
21%	[redacted]	3205/15000 [00:34<02:00, 97.94it/s]
21%	[redacted]	3216/15000 [00:34<01:59, 98.36it/s]
22%	[redacted]	3227/15000 [00:34<02:01, 97.10it/s]
22%	[redacted]	3237/15000 [00:34<02:12, 88.90it/s]
22%	[redacted]	3247/15000 [00:34<02:10, 90.29it/s]
22%	[redacted]	3260/15000 [00:34<02:01, 97.01it/s]
22%	[redacted]	3271/15000 [00:34<01:58, 98.75it/s]
22%	[redacted]	3282/15000 [00:34<01:57, 99.69it/s]
22%	[redacted]	3296/15000 [00:34<01:50, 105.68it/s]
22%	[redacted]	3310/15000 [00:35<01:45, 111.17it/s]

22% [REDACTED]	3322/15000 [00:35<01:44, 111.67it/s]
22% [REDACTED]	3334/15000 [00:35<01:55, 101.34it/s]
22% [REDACTED]	3347/15000 [00:35<01:48, 106.99it/s]
22% [REDACTED]	3361/15000 [00:35<01:42, 113.98it/s]
22% [REDACTED]	3373/15000 [00:35<01:42, 113.69it/s]
23% [REDACTED]	3386/15000 [00:35<01:39, 116.73it/s]
23% [REDACTED]	3398/15000 [00:35<02:02, 94.46it/s]
23% [REDACTED]	3410/15000 [00:35<01:57, 98.73it/s]
23% [REDACTED]	3421/15000 [00:36<01:57, 98.36it/s]
23% [REDACTED]	3432/15000 [00:36<01:55, 100.13it/s]
23% [REDACTED]	3443/15000 [00:36<02:01, 95.12it/s]
23% [REDACTED]	3453/15000 [00:36<02:16, 84.41it/s]
23% [REDACTED]	3467/15000 [00:36<02:00, 95.48it/s]
23% [REDACTED]	3481/15000 [00:36<01:51, 103.40it/s]
23% [REDACTED]	3493/15000 [00:36<01:52, 102.64it/s]
23% [REDACTED]	3504/15000 [00:36<01:51, 102.86it/s]
23% [REDACTED]	3515/15000 [00:37<01:53, 100.79it/s]
24% [REDACTED]	3526/15000 [00:37<02:00, 95.39it/s]
24% [REDACTED]	3538/15000 [00:37<01:52, 101.55it/s]
24% [REDACTED]	3549/15000 [00:37<02:02, 93.72it/s]
24% [REDACTED]	3559/15000 [00:37<02:01, 93.82it/s]
24% [REDACTED]	3569/15000 [00:37<02:01, 94.13it/s]
24% [REDACTED]	3582/15000 [00:37<01:52, 101.49it/s]
24% [REDACTED]	3593/15000 [00:37<01:58, 96.35it/s]
24% [REDACTED]	3606/15000 [00:37<01:50, 102.80it/s]
24% [REDACTED]	3617/15000 [00:38<01:50, 103.17it/s]
24% [REDACTED]	3628/15000 [00:38<01:55, 98.71it/s]
24% [REDACTED]	3641/15000 [00:38<01:48, 104.67it/s]

24%| [REDACTED]

| 3652/15000 [00:38<01:50, 102.73it/s]

24%| [REDACTED]

| 3663/15000 [00:38<01:50, 102.26it/s]

24%| [REDACTED]

| 3674/15000 [00:38<01:50, 102.28it/s]

25%| [REDACTED]

| 3685/15000 [00:38<01:50, 102.52it/s]

25%| [REDACTED]

| 3696/15000 [00:38<02:05, 90.32it/s]

25%| [REDACTED]

| 3709/15000 [00:38<01:54, 98.92it/s]

25%| [REDACTED]

| 3720/15000 [00:39<02:03, 91.68it/s]

25%| [REDACTED]

| 3730/15000 [00:39<02:00, 93.31it/s]

25%| [REDACTED]

| 3741/15000 [00:39<01:55, 97.57it/s]

25%| [REDACTED]

| 3752/15000 [00:39<01:54, 98.63it/s]

25%| [REDACTED]

| 3763/15000 [00:39<01:53, 98.58it/s]

25%| [REDACTED]

| 3775/15000 [00:39<01:50, 101.88it/s]

25%| [REDACTED]

| 3787/15000 [00:39<01:46, 104.98it/s]

25%| [REDACTED]

| 3798/15000 [00:39<02:04, 89.82it/s]

25%| [REDACTED]

| 3809/15000 [00:40<01:57, 94.91it/s]

25%| [REDACTED]

| 3823/15000 [00:40<01:47, 103.79it/s]

26%| [REDACTED]

| 3835/15000 [00:40<01:43, 108.10it/s]

26%| [REDACTED]

| 3847/15000 [00:40<02:02, 91.16it/s]

26%| [REDACTED]

| 3862/15000 [00:40<01:50, 100.44it/s]

26%| [REDACTED]

| 3873/15000 [00:40<02:02, 91.17it/s]

26%| [REDACTED]

| 3883/15000 [00:40<01:58, 93.54it/s]

26%| [REDACTED]

| 3893/15000 [00:40<02:01, 91.41it/s]

26%| [REDACTED]

| 3904/15000 [00:41<02:00, 92.13it/s]

26%| [REDACTED]

| 3917/15000 [00:41<01:49, 100.89it/s]

26%| [REDACTED]

| 3928/15000 [00:41<01:49, 101.26it/s]

26%| [REDACTED]

| 3939/15000 [00:41<02:01, 91.19it/s]

26%| [REDACTED]

| 3953/15000 [00:41<01:49, 101.02it/s]

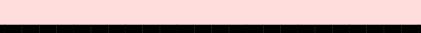
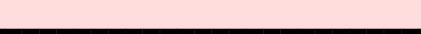
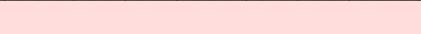
26%		3964/15000 [00:41<01:54, 96.01it/s]
26%		3975/15000 [00:41<02:03, 89.45it/s]
27%		3985/15000 [00:41<02:02, 89.92it/s]
27%		3995/15000 [00:41<02:05, 87.74it/s]
27%		4008/15000 [00:42<01:54, 95.96it/s]
27%		4018/15000 [00:42<02:17, 80.05it/s]
27%		4030/15000 [00:42<02:05, 87.67it/s]
27%		4040/15000 [00:42<02:00, 90.97it/s]
27%		4050/15000 [00:42<02:06, 86.23it/s]
27%		4060/15000 [00:42<02:03, 88.41it/s]
27%		4070/15000 [00:42<01:59, 91.16it/s]
27%		4082/15000 [00:42<01:55, 94.35it/s]
27%		4093/15000 [00:43<01:51, 98.10it/s]
27%		4103/15000 [00:43<01:57, 92.97it/s]
27%		4114/15000 [00:43<01:55, 94.56it/s]
28%		4126/15000 [00:43<01:48, 100.54it/s]
28%		4137/15000 [00:43<01:50, 98.31it/s]
28%		4147/15000 [00:43<02:07, 84.94it/s]
28%		4161/15000 [00:43<01:52, 96.28it/s]
28%		4172/15000 [00:43<01:54, 94.84it/s]
28%		4183/15000 [00:43<01:56, 92.69it/s]
28%		4193/15000 [00:44<01:58, 91.19it/s]
28%		4203/15000 [00:44<02:17, 78.77it/s]
28%		4212/15000 [00:44<02:13, 80.88it/s]
28%		4224/15000 [00:44<02:01, 88.42it/s]
28%		4234/15000 [00:44<02:00, 89.33it/s]
28%		4244/15000 [00:44<01:59, 89.93it/s]
28%		4258/15000 [00:44<01:48, 98.56it/s]

28%		4271/15000 [00:44<01:42, 105.18it/s]
29%		4282/15000 [00:45<02:09, 82.96it/s]
29%		4294/15000 [00:45<01:58, 90.65it/s]
29%		4305/15000 [00:45<01:52, 95.03it/s]
29%		4316/15000 [00:45<01:54, 93.35it/s]
29%		4327/15000 [00:45<01:49, 97.34it/s]
29%		4338/15000 [00:45<01:59, 89.14it/s]
29%		4348/15000 [00:45<02:01, 87.34it/s]
29%		4361/15000 [00:45<01:50, 96.06it/s]
29%		4372/15000 [00:45<01:46, 99.75it/s]
29%		4383/15000 [00:46<02:00, 88.27it/s]
29%		4396/15000 [00:46<01:50, 95.64it/s]
29%		4407/15000 [00:46<01:52, 94.09it/s]
29%		4417/15000 [00:46<02:15, 78.04it/s]
30%		4428/15000 [00:46<02:05, 84.13it/s]
30%		4442/15000 [00:46<01:53, 92.90it/s]
30%		4454/15000 [00:46<01:48, 97.52it/s]
30%		4467/15000 [00:46<01:41, 103.46it/s]
30%		4478/15000 [00:47<01:55, 91.18it/s]
30%		4489/15000 [00:47<01:53, 92.22it/s]
30%		4502/15000 [00:47<01:44, 100.31it/s]
30%		4513/15000 [00:47<01:49, 95.78it/s]
30%		4525/15000 [00:47<01:42, 101.92it/s]
30%		4536/15000 [00:47<01:49, 95.35it/s]
30%		4547/15000 [00:47<01:46, 98.33it/s]
30%		4558/15000 [00:47<01:44, 100.25it/s]
30%		4569/15000 [00:48<01:47, 97.08it/s]

31%		4579/15000 [00:48<01:49, 94.95it/s]
31%		4589/15000 [00:48<01:52, 92.62it/s]
31%		4600/15000 [00:48<01:47, 97.04it/s]
31%		4612/15000 [00:48<01:41, 102.75it/s]
31%		4623/15000 [00:48<01:57, 88.51it/s]
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31%		4664/15000 [00:49<01:53, 90.79it/s]
31%		4676/15000 [00:49<01:47, 96.35it/s]
31%		4686/15000 [00:49<01:53, 91.12it/s]
31%		4696/15000 [00:49<01:50, 93.44it/s]
31%		4706/15000 [00:49<01:52, 91.25it/s]
31%		4716/15000 [00:49<01:49, 93.67it/s]
32%		4733/15000 [00:49<01:36, 106.18it/s]
32%		4745/15000 [00:49<01:34, 108.94it/s]
32%		4757/15000 [00:49<01:40, 102.08it/s]
32%		4768/15000 [00:50<01:49, 93.28it/s]
32%		4778/15000 [00:50<01:51, 91.66it/s]
32%		4793/15000 [00:50<01:41, 100.35it/s]
32%		4804/15000 [00:50<01:47, 94.98it/s]
32%		4815/15000 [00:50<01:42, 99.02it/s]
32%		4827/15000 [00:50<01:38, 103.24it/s]
32%		4838/15000 [00:50<01:42, 99.56it/s]
32%		4849/15000 [00:50<01:48, 93.53it/s]
32%		4860/15000 [00:51<01:45, 95.95it/s]
32%		4871/15000 [00:51<01:45, 96.19it/s]
33%		4881/15000 [00:51<01:52, 89.55it/s]

33%	4891/15000 [00:51<01:50, 91.76it/s]
33%	4901/15000 [00:51<01:51, 90.83it/s]
33%	4911/15000 [00:51<01:56, 86.49it/s]
33%	4926/15000 [00:51<01:41, 99.03it/s]
33%	4937/15000 [00:51<01:40, 100.49it/s]
33%	4948/15000 [00:52<01:51, 90.41it/s]
33%	4966/15000 [00:52<01:36, 104.40it/s]
33%	4981/15000 [00:52<01:29, 112.33it/s]
33%	4994/15000 [00:52<01:34, 105.39it/s]
33%	5006/15000 [00:52<01:33, 106.38it/s]
33%	5018/15000 [00:52<01:30, 110.11it/s]
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34%	5052/15000 [00:52<01:46, 93.73it/s]
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34%	5074/15000 [00:53<01:42, 97.13it/s]
34%	5084/15000 [00:53<01:47, 92.62it/s]
34%	5097/15000 [00:53<01:37, 101.20it/s]
34%	5109/15000 [00:53<01:34, 105.04it/s]
34%	5121/15000 [00:53<01:32, 106.92it/s]
34%	5132/15000 [00:53<01:45, 93.39it/s]
34%	5142/15000 [00:53<01:44, 94.27it/s]
34%	5154/15000 [00:53<01:40, 98.35it/s]
34%	5165/15000 [00:54<01:41, 96.43it/s]
35%	5176/15000 [00:54<01:39, 98.86it/s]
35%	5187/15000 [00:54<01:48, 90.48it/s]
35%	5197/15000 [00:54<01:47, 91.43it/s]

35%		5208/15000 [00:54<01:41, 96.12it/s]
35%		5221/15000 [00:54<01:34, 103.93it/s]
35%		5232/15000 [00:54<01:45, 92.41it/s]
35%		5243/15000 [00:54<01:41, 96.08it/s]
35%		5257/15000 [00:55<01:33, 103.70it/s]
35%		5268/15000 [00:55<01:33, 103.66it/s]
35%		5279/15000 [00:55<01:37, 100.03it/s]
35%		5290/15000 [00:55<01:37, 99.81it/s]
35%		5301/15000 [00:55<01:38, 98.66it/s]
35%		5311/15000 [00:55<01:48, 88.94it/s]
35%		5321/15000 [00:55<02:14, 71.87it/s]
36%		5332/15000 [00:55<02:02, 79.22it/s]
36%		5343/15000 [00:56<01:54, 84.63it/s]
36%		5355/15000 [00:56<01:45, 91.30it/s]
36%		5365/15000 [00:56<01:46, 90.88it/s]
36%		5375/15000 [00:56<01:44, 92.22it/s]
36%		5385/15000 [00:56<01:56, 82.58it/s]
36%		5396/15000 [00:56<01:49, 87.78it/s]
36%		5406/15000 [00:56<01:53, 84.85it/s]
36%		5417/15000 [00:56<01:47, 88.74it/s]
36%		5427/15000 [00:56<01:46, 89.69it/s]
36%		5437/15000 [00:57<01:49, 86.96it/s]
36%		5446/15000 [00:57<01:49, 87.27it/s]
36%		5460/15000 [00:57<01:37, 97.93it/s]
36%		5471/15000 [00:57<01:40, 94.80it/s]
37%		5482/15000 [00:57<01:38, 96.89it/s]
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37%		5502/15000 [00:57<01:40, 94.27it/s]

37%		5514/15000 [00:57<01:34, 100.67it/s]
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37%		5535/15000 [00:58<01:51, 84.70it/s]
37%		5548/15000 [00:58<01:42, 91.97it/s]
37%		5558/15000 [00:58<01:40, 93.94it/s]
37%		5568/15000 [00:58<01:44, 90.41it/s]
37%		5578/15000 [00:58<01:52, 83.79it/s]
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37%		5599/15000 [00:58<01:43, 91.21it/s]
37%		5611/15000 [00:58<01:37, 95.97it/s]
37%		5621/15000 [00:59<01:41, 92.85it/s]
38%		5633/15000 [00:59<01:35, 98.56it/s]
38%		5645/15000 [00:59<01:31, 102.01it/s]
38%		5656/15000 [00:59<01:39, 94.22it/s]
38%		5666/15000 [00:59<01:52, 83.02it/s]
38%		5677/15000 [00:59<01:44, 89.25it/s]
38%		5689/15000 [00:59<01:37, 95.57it/s]
38%		5700/15000 [00:59<01:36, 96.85it/s]
38%		5710/15000 [00:59<01:41, 91.41it/s]
38%		5721/15000 [01:00<01:37, 94.79it/s]
38%		5731/15000 [01:00<01:36, 96.23it/s]
38%		5742/15000 [01:00<01:33, 98.99it/s]
38%		5753/15000 [01:00<01:38, 94.21it/s]
38%		5766/15000 [01:00<01:31, 101.15it/s]
39%		5777/15000 [01:00<01:33, 98.73it/s]
39%		5788/15000 [01:00<01:31, 100.54it/s]
39%		5799/15000 [01:00<01:39, 92.73it/s]

39%		5809/15000 [01:00<01:37, 94.41it/s]
39%		5819/15000 [01:01<01:37, 94.38it/s]
39%		5829/15000 [01:01<01:41, 90.79it/s]
39%		5839/15000 [01:01<01:43, 88.44it/s]
39%		5849/15000 [01:01<01:40, 90.74it/s]
39%		5859/15000 [01:01<01:38, 93.23it/s]
39%		5869/15000 [01:01<01:39, 92.19it/s]
39%		5879/15000 [01:01<01:52, 81.36it/s]
39%		5889/15000 [01:01<01:46, 85.36it/s]
39%		5900/15000 [01:02<01:40, 90.22it/s]
39%		5910/15000 [01:02<01:47, 84.55it/s]
39%		5919/15000 [01:02<01:46, 85.32it/s]
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40%		6035/15000 [01:03<01:32, 96.72it/s]
40%		6045/15000 [01:03<01:43, 86.14it/s]
40%		6057/15000 [01:03<01:35, 93.26it/s]
40%		6068/15000 [01:03<01:31, 97.65it/s]
41%		6079/15000 [01:03<01:33, 95.80it/s]
41%		6089/15000 [01:04<01:39, 89.17it/s]

41%		6099/15000 [01:04<01:45, 84.31it/s]
41%		6112/15000 [01:04<01:34, 94.22it/s]
41%		6124/15000 [01:04<01:29, 99.22it/s]
41%		6135/15000 [01:04<01:30, 98.40it/s]
41%		6147/15000 [01:04<01:26, 102.36it/s]
41%		6158/15000 [01:04<01:29, 98.88it/s]
41%		6171/15000 [01:04<01:25, 103.05it/s]
41%		6182/15000 [01:05<01:31, 95.96it/s]
41%		6194/15000 [01:05<01:26, 101.59it/s]
41%		6205/15000 [01:05<01:27, 100.16it/s]
41%		6216/15000 [01:05<01:30, 97.17it/s]
42%		6227/15000 [01:05<01:28, 98.86it/s]
42%		6237/15000 [01:05<01:34, 92.62it/s]
42%		6247/15000 [01:05<01:39, 87.91it/s]
42%		6260/15000 [01:05<01:30, 96.55it/s]
42%		6273/15000 [01:05<01:25, 102.59it/s]
42%		6284/15000 [01:06<01:27, 100.07it/s]
42%		6295/15000 [01:06<01:31, 95.32it/s]
42%		6306/15000 [01:06<01:30, 96.00it/s]
42%		6316/15000 [01:06<01:31, 94.49it/s]
42%		6326/15000 [01:06<01:33, 92.94it/s]
42%		6336/15000 [01:06<01:36, 89.47it/s]
42%		6346/15000 [01:06<01:35, 90.72it/s]
42%		6356/15000 [01:06<01:32, 93.31it/s]
42%		6366/15000 [01:06<01:41, 85.15it/s]
42%		6375/15000 [01:07<01:51, 77.63it/s]
43%		6385/15000 [01:07<01:43, 83.07it/s]

43%		6394/15000 [01:07<01:43, 83.12it/s]
43%		6404/15000 [01:07<01:39, 86.68it/s]
43%		6414/15000 [01:07<01:36, 88.87it/s]
43%		6425/15000 [01:07<01:32, 93.12it/s]
43%		6435/15000 [01:07<01:35, 89.31it/s]
43%		6446/15000 [01:07<01:31, 93.75it/s]
43%		6456/15000 [01:07<01:34, 90.68it/s]
43%		6466/15000 [01:08<01:33, 91.32it/s]
43%		6477/15000 [01:08<01:28, 95.79it/s]
43%		6487/15000 [01:08<01:36, 87.90it/s]
43%		6497/15000 [01:08<01:39, 85.36it/s]
43%		6510/15000 [01:08<01:30, 94.27it/s]
43%		6520/15000 [01:08<01:30, 93.45it/s]
44%		6530/15000 [01:08<01:31, 92.49it/s]
44%		6540/15000 [01:08<01:30, 93.37it/s]
44%		6551/15000 [01:08<01:28, 95.59it/s]
44%		6561/15000 [01:09<01:30, 93.68it/s]
44%		6571/15000 [01:09<01:37, 86.87it/s]
44%		6580/15000 [01:09<01:37, 86.10it/s]
44%		6593/15000 [01:09<01:27, 95.75it/s]
44%		6605/15000 [01:09<01:23, 100.21it/s]
44%		6616/15000 [01:09<01:29, 94.07it/s]
44%		6626/15000 [01:09<01:38, 85.25it/s]
44%		6640/15000 [01:09<01:27, 95.42it/s]
44%		6653/15000 [01:10<01:22, 101.26it/s]
44%		6664/15000 [01:10<01:36, 86.83it/s]
45%		6676/15000 [01:10<01:29, 93.49it/s]
45%		6687/15000 [01:10<01:26, 96.47it/s]

45%		6698/15000 [01:10<01:25, 97.46it/s]
45%		6709/15000 [01:10<01:30, 91.35it/s]
45%		6719/15000 [01:10<01:33, 88.39it/s]
45%		6731/15000 [01:10<01:26, 95.81it/s]
45%		6741/15000 [01:11<01:28, 93.83it/s]
45%		6751/15000 [01:11<01:34, 86.85it/s]
45%		6760/15000 [01:11<01:34, 87.33it/s]
45%		6771/15000 [01:11<01:30, 90.62it/s]
45%		6781/15000 [01:11<01:31, 90.05it/s]
45%		6791/15000 [01:11<01:34, 87.31it/s]
45%		6800/15000 [01:11<01:34, 86.87it/s]
45%		6809/15000 [01:11<01:34, 86.83it/s]
45%		6818/15000 [01:11<01:37, 83.74it/s]
46%		6827/15000 [01:12<01:43, 78.81it/s]
46%		6837/15000 [01:12<01:37, 84.14it/s]
46%		6848/15000 [01:12<01:30, 90.50it/s]
46%		6860/15000 [01:12<01:25, 95.39it/s]
46%		6870/15000 [01:12<01:31, 89.03it/s]
46%		6885/15000 [01:12<01:20, 100.59it/s]
46%		6896/15000 [01:12<01:22, 97.69it/s]
46%		6907/15000 [01:12<01:21, 99.51it/s]
46%		6918/15000 [01:12<01:23, 97.03it/s]
46%		6928/15000 [01:13<01:23, 96.77it/s]
46%		6941/15000 [01:13<01:17, 103.72it/s]
46%		6953/15000 [01:13<01:14, 107.78it/s]
46%		6965/15000 [01:13<01:24, 95.11it/s]
47%		6976/15000 [01:13<01:21, 98.04it/s]

47%		6989/15000 [01:13<01:17, 102.73it/s]
47%		7001/15000 [01:13<01:16, 105.13it/s]
47%		7012/15000 [01:13<01:20, 99.49it/s]
47%		7023/15000 [01:13<01:25, 93.28it/s]
47%		7036/15000 [01:14<01:19, 100.51it/s]
47%		7048/15000 [01:14<01:17, 102.36it/s]
47%		7059/15000 [01:14<01:16, 103.92it/s]
47%		7070/15000 [01:14<01:23, 95.12it/s]
47%		7081/15000 [01:14<01:21, 97.21it/s]
47%		7091/15000 [01:14<01:23, 94.18it/s]
47%		7101/15000 [01:14<01:28, 89.15it/s]
47%		7111/15000 [01:14<01:31, 85.90it/s]
47%		7123/15000 [01:15<01:26, 91.00it/s]
48%		7135/15000 [01:15<01:22, 95.79it/s]
48%		7145/15000 [01:15<01:28, 89.21it/s]
48%		7155/15000 [01:15<01:25, 91.24it/s]
48%		7165/15000 [01:15<01:26, 91.09it/s]
48%		7178/15000 [01:15<01:19, 98.69it/s]
48%		7190/15000 [01:15<01:14, 104.24it/s]
48%		7201/15000 [01:15<01:21, 95.24it/s]
48%		7211/15000 [01:15<01:20, 96.57it/s]
48%		7221/15000 [01:16<01:22, 94.54it/s]
48%		7231/15000 [01:16<01:27, 88.52it/s]
48%		7241/15000 [01:16<01:44, 74.46it/s]
48%		7254/15000 [01:16<01:33, 82.75it/s]
48%		7263/15000 [01:16<01:33, 82.52it/s]
48%		7274/15000 [01:16<01:27, 88.43it/s]
49%		7285/15000 [01:16<01:22, 93.55it/s]

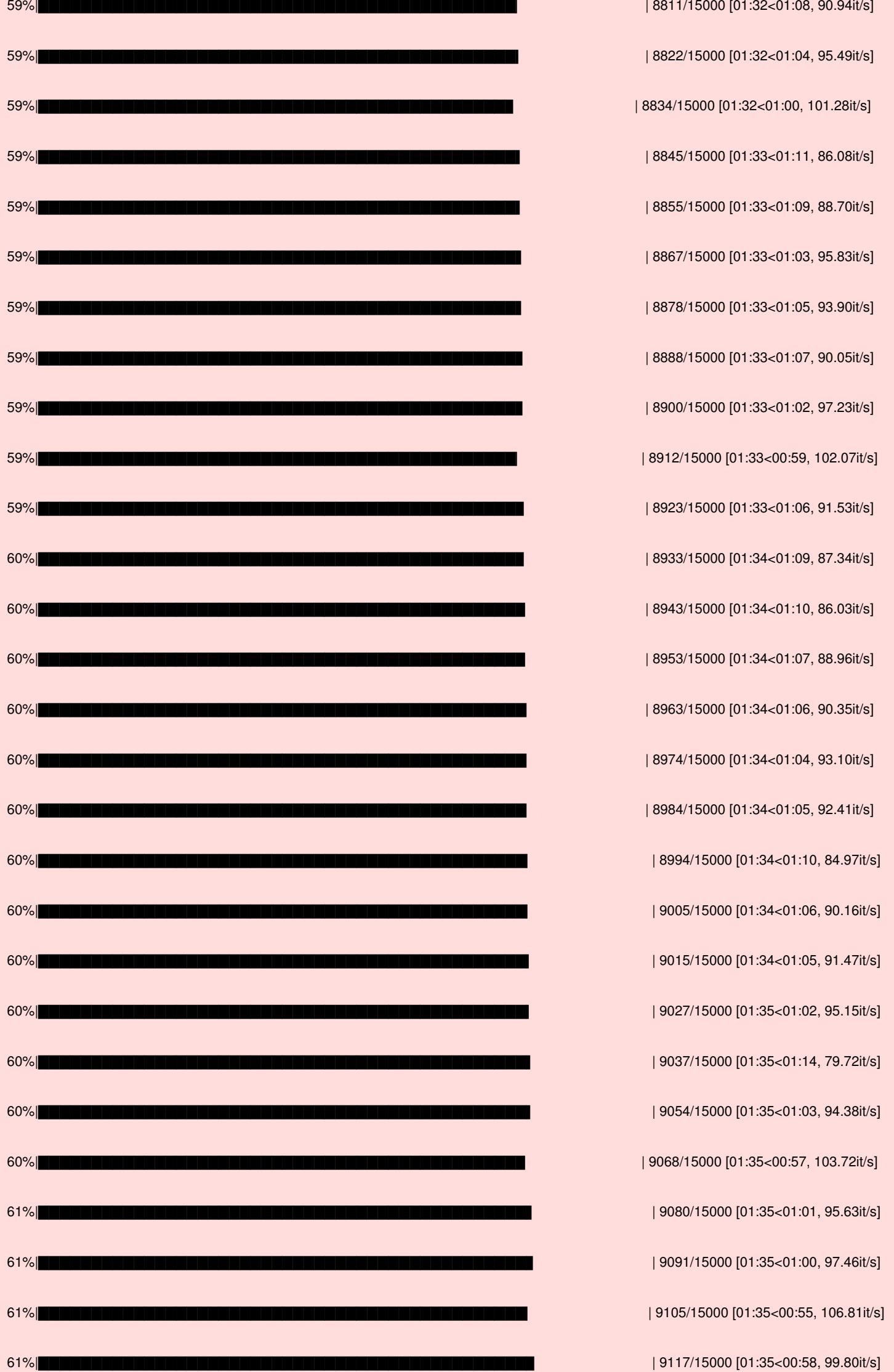
49%	7295/15000 [01:16<01:27, 88.16it/s]
49%	7305/15000 [01:17<01:25, 90.00it/s]
49%	7318/15000 [01:17<01:18, 97.43it/s]
49%	7329/15000 [01:17<01:17, 98.53it/s]
49%	7341/15000 [01:17<01:15, 102.07it/s]
49%	7352/15000 [01:17<01:15, 101.24it/s]
49%	7365/15000 [01:17<01:11, 107.44it/s]
49%	7376/15000 [01:17<01:12, 105.79it/s]
49%	7387/15000 [01:17<01:23, 90.94it/s]
49%	7398/15000 [01:17<01:21, 93.31it/s]
49%	7410/15000 [01:18<01:16, 99.80it/s]
49%	7423/15000 [01:18<01:11, 106.11it/s]
50%	7435/15000 [01:18<01:10, 107.50it/s]
50%	7447/15000 [01:18<01:13, 102.27it/s]
50%	7458/15000 [01:18<01:12, 103.96it/s]
50%	7470/15000 [01:18<01:09, 108.09it/s]
50%	7481/15000 [01:18<01:12, 103.83it/s]
50%	7492/15000 [01:18<01:18, 95.78it/s]
50%	7503/15000 [01:18<01:15, 98.91it/s]
50%	7515/15000 [01:19<01:12, 103.95it/s]
50%	7526/15000 [01:19<01:13, 102.24it/s]
50%	7537/15000 [01:19<01:20, 93.14it/s]
50%	7547/15000 [01:19<01:19, 94.10it/s]
50%	7557/15000 [01:19<01:18, 95.05it/s]
50%	7567/15000 [01:19<01:26, 86.33it/s]
51%	7578/15000 [01:19<01:22, 90.42it/s]
51%	7588/15000 [01:19<01:25, 86.87it/s]

51%	7599/15000 [01:19<01:22, 89.61it/s]
51%	7610/15000 [01:20<01:19, 93.51it/s]
51%	7620/15000 [01:20<01:23, 87.91it/s]
51%	7629/15000 [01:20<01:31, 80.75it/s]
51%	7640/15000 [01:20<01:24, 87.59it/s]
51%	7650/15000 [01:20<01:22, 88.87it/s]
51%	7660/15000 [01:20<01:21, 89.54it/s]
51%	7670/15000 [01:20<01:20, 90.75it/s]
51%	7680/15000 [01:20<01:20, 91.35it/s]
51%	7693/15000 [01:20<01:13, 99.67it/s]
51%	7704/15000 [01:21<01:15, 97.07it/s]
51%	7717/15000 [01:21<01:10, 103.12it/s]
52%	7728/15000 [01:21<01:21, 89.55it/s]
52%	7738/15000 [01:21<01:18, 92.01it/s]
52%	7748/15000 [01:21<01:22, 88.35it/s]
52%	7762/15000 [01:21<01:13, 97.90it/s]
52%	7773/15000 [01:21<01:12, 99.51it/s]
52%	7784/15000 [01:21<01:14, 96.92it/s]
52%	7794/15000 [01:22<01:16, 94.06it/s]
52%	7805/15000 [01:22<01:15, 95.84it/s]
52%	7815/15000 [01:22<01:18, 91.76it/s]
52%	7827/15000 [01:22<01:12, 98.52it/s]
52%	7838/15000 [01:22<01:16, 94.00it/s]
52%	7851/15000 [01:22<01:10, 100.78it/s]
52%	7862/15000 [01:22<01:18, 91.14it/s]
52%	7874/15000 [01:22<01:14, 95.94it/s]
53%	7887/15000 [01:22<01:08, 103.15it/s]
53%	7898/15000 [01:23<01:09, 102.41it/s]

53%	7909/15000 [01:23<01:12, 97.96it/s]
53%	7920/15000 [01:23<01:13, 96.06it/s]
53%	7930/15000 [01:23<01:17, 91.43it/s]
53%	7941/15000 [01:23<01:13, 95.62it/s]
53%	7955/15000 [01:23<01:08, 103.18it/s]
53%	7966/15000 [01:23<01:10, 99.42it/s]
53%	7977/15000 [01:23<01:13, 96.08it/s]
53%	7987/15000 [01:24<01:12, 97.10it/s]
53%	7997/15000 [01:24<01:19, 88.56it/s]
53%	8007/15000 [01:24<01:20, 86.91it/s]
53%	8016/15000 [01:24<01:20, 86.89it/s]
54%	8025/15000 [01:24<01:20, 86.18it/s]
54%	8035/15000 [01:24<01:19, 87.58it/s]
54%	8044/15000 [01:24<01:26, 80.01it/s]
54%	8054/15000 [01:24<01:21, 84.96it/s]
54%	8063/15000 [01:24<01:21, 85.01it/s]
54%	8072/15000 [01:25<01:24, 82.03it/s]
54%	8081/15000 [01:25<01:24, 82.03it/s]
54%	8090/15000 [01:25<01:25, 81.25it/s]
54%	8100/15000 [01:25<01:20, 85.38it/s]
54%	8110/15000 [01:25<01:17, 89.00it/s]
54%	8120/15000 [01:25<01:19, 86.73it/s]
54%	8133/15000 [01:25<01:11, 95.64it/s]
54%	8144/15000 [01:25<01:10, 96.61it/s]
54%	8154/15000 [01:25<01:12, 95.06it/s]
54%	8164/15000 [01:26<01:16, 89.58it/s]
54%	8174/15000 [01:26<01:16, 89.09it/s]



57%		8496/15000 [01:29<01:09, 93.73it/s]
57%		8507/15000 [01:29<01:06, 97.98it/s]
57%		8518/15000 [01:29<01:17, 83.81it/s]
57%		8528/15000 [01:29<01:13, 87.96it/s]
57%		8538/15000 [01:30<01:10, 91.22it/s]
57%		8548/15000 [01:30<01:15, 85.91it/s]
57%		8557/15000 [01:30<01:19, 80.56it/s]
57%		8574/15000 [01:30<01:07, 94.92it/s]
57%		8585/15000 [01:30<01:05, 97.55it/s]
57%		8596/15000 [01:30<01:09, 92.75it/s]
57%		8611/15000 [01:30<01:01, 103.08it/s]
57%		8623/15000 [01:30<01:02, 101.96it/s]
58%		8637/15000 [01:30<00:58, 109.52it/s]
58%		8649/15000 [01:31<01:02, 102.22it/s]
58%		8661/15000 [01:31<00:59, 106.48it/s]
58%		8675/15000 [01:31<00:55, 113.68it/s]
58%		8688/15000 [01:31<00:54, 116.32it/s]
58%		8700/15000 [01:31<00:56, 111.92it/s]
58%		8712/15000 [01:31<00:58, 108.15it/s]
58%		8726/15000 [01:31<00:55, 112.77it/s]
58%		8738/15000 [01:31<00:58, 106.25it/s]
58%		8749/15000 [01:31<00:58, 107.31it/s]
58%		8760/15000 [01:32<01:06, 94.19it/s]
58%		8770/15000 [01:32<01:05, 94.93it/s]
59%		8780/15000 [01:32<01:09, 89.73it/s]
59%		8790/15000 [01:32<01:15, 82.39it/s]
59%		8799/15000 [01:32<01:14, 82.80it/s]



61%	9128/15000 [01:36<01:01, 95.15it/s]
61%	9141/15000 [01:36<00:56, 103.41it/s]
61%	9157/15000 [01:36<00:50, 115.26it/s]
61%	9170/15000 [01:36<00:50, 114.37it/s]
61%	9183/15000 [01:36<00:54, 107.30it/s]
61%	9195/15000 [01:36<00:53, 108.25it/s]
61%	9207/15000 [01:36<01:01, 94.08it/s]
61%	9217/15000 [01:36<01:03, 90.88it/s]
62%	9228/15000 [01:37<01:00, 94.76it/s]
62%	9238/15000 [01:37<01:07, 84.86it/s]
62%	9247/15000 [01:37<01:08, 83.90it/s]
62%	9256/15000 [01:37<01:13, 78.09it/s]
62%	9267/15000 [01:37<01:07, 85.53it/s]
62%	9276/15000 [01:37<01:20, 71.34it/s]
62%	9287/15000 [01:37<01:13, 77.44it/s]
62%	9298/15000 [01:37<01:07, 84.79it/s]
62%	9309/15000 [01:37<01:03, 89.22it/s]
62%	9319/15000 [01:38<01:08, 82.58it/s]
62%	9331/15000 [01:38<01:05, 86.07it/s]
62%	9343/15000 [01:38<01:00, 93.23it/s]
62%	9353/15000 [01:38<00:59, 94.16it/s]
62%	9363/15000 [01:38<01:03, 89.46it/s]
63%	9376/15000 [01:38<00:57, 98.55it/s]
63%	9388/15000 [01:38<00:53, 104.00it/s]
63%	9399/15000 [01:38<00:53, 105.65it/s]
63%	9410/15000 [01:39<00:57, 96.43it/s]
63%	9421/15000 [01:39<00:57, 97.47it/s]

63%|

| 9432/15000 [01:39<00:55, 100.83it/s]

63%|

| 9443/15000 [01:39<01:02, 88.66it/s]

63%|

| 9453/15000 [01:39<01:08, 81.48it/s]

63%|

| 9463/15000 [01:39<01:04, 86.11it/s]

63%|

| 9474/15000 [01:39<01:00, 91.89it/s]

63%|

| 9484/15000 [01:39<00:58, 93.81it/s]

63%|

| 9494/15000 [01:39<00:57, 95.33it/s]

63%|

| 9505/15000 [01:40<00:55, 99.26it/s]

63%|

| 9516/15000 [01:40<00:53, 102.19it/s]

64%|

| 9527/15000 [01:40<00:59, 91.44it/s]

64%|

| 9537/15000 [01:40<01:00, 90.29it/s]

64%|

| 9550/15000 [01:40<00:54, 99.39it/s]

64%|

| 9561/15000 [01:40<00:56, 96.26it/s]

64%|

| 9573/15000 [01:40<00:54, 100.36it/s]

64%|

| 9584/15000 [01:40<00:56, 96.18it/s]

64%|

| 9594/15000 [01:40<00:59, 90.96it/s]

64%|

| 9604/15000 [01:41<00:58, 91.96it/s]

64%|

| 9614/15000 [01:41<01:03, 84.63it/s]

64%|

| 9623/15000 [01:41<01:02, 85.50it/s]

64%|

| 9636/15000 [01:41<00:57, 93.72it/s]

64%|

| 9647/15000 [01:41<00:55, 97.08it/s]

64%|

| 9658/15000 [01:41<00:53, 100.18it/s]

64%|

| 9669/15000 [01:41<00:57, 93.34it/s]

65%|

| 9685/15000 [01:41<00:50, 105.67it/s]

65%|

| 9697/15000 [01:42<00:49, 107.04it/s]

65%|

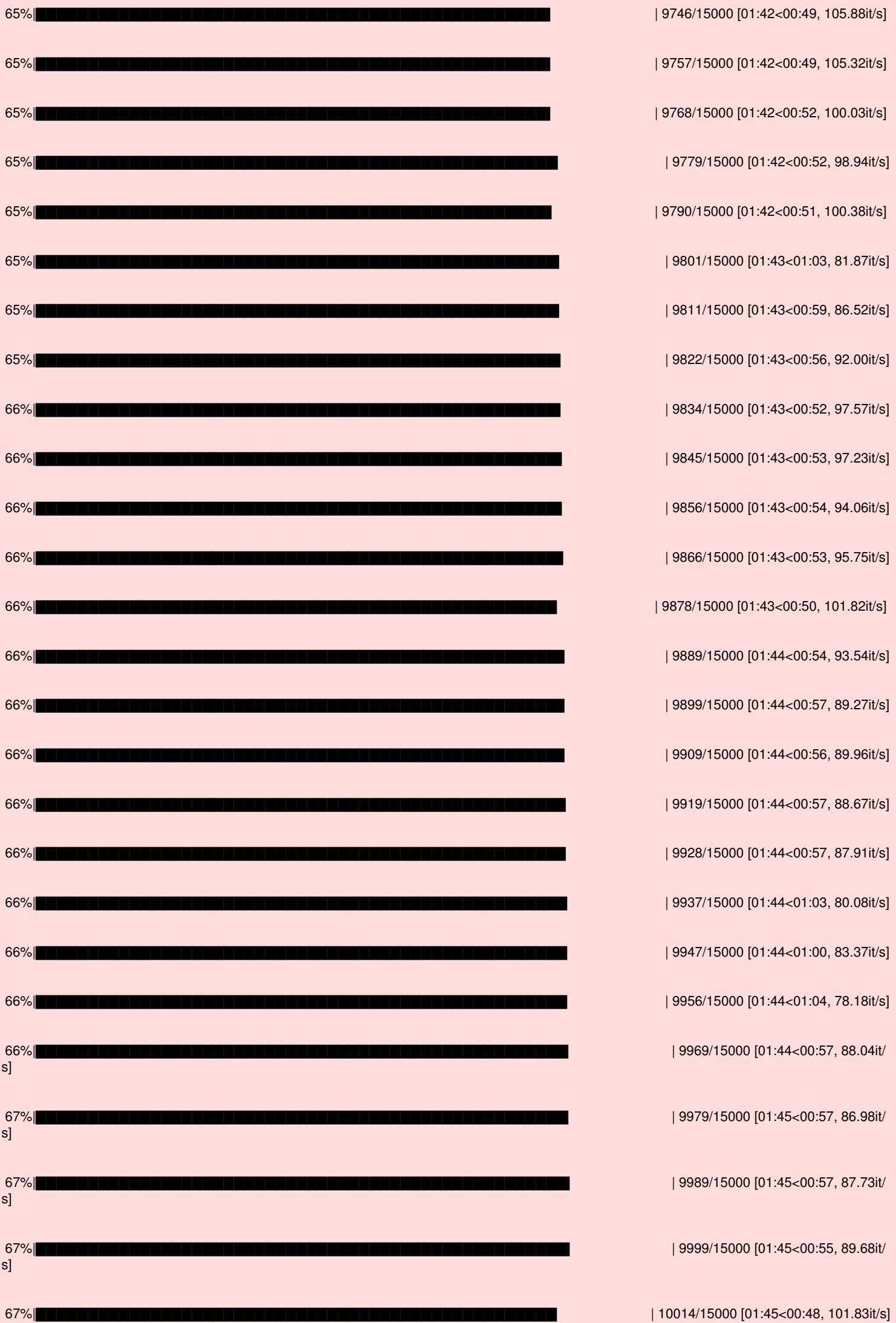
| 9710/15000 [01:42<00:47, 111.94it/s]

65%|

| 9722/15000 [01:42<00:49, 105.88it/s]

65%|

| 9734/15000 [01:42<00:48, 108.06it/s]



67% [10025/15000 [01:45<00:54, 90.84it/s]
67% [10038/15000 [01:45<00:50, 97.36it/s]
67% [s]	10055/15000 [01:45<00:45, 109.78it/s]
67% [s]	10067/15000 [01:45<00:45, 109.16it/s]
67% [10079/15000 [01:46<00:56, 86.42it/s]
67% [s]	10092/15000 [01:46<00:52, 93.27it/s]
67% [s]	10107/15000 [01:46<00:47, 103.82it/s]
67% [s]	10119/15000 [01:46<00:47, 102.62it/s]
68% [s]	10131/15000 [01:46<00:45, 106.20it/s]
68% [s]	10143/15000 [01:46<00:48, 99.79it/s]
68% [s]	10154/15000 [01:46<00:51, 94.53it/s]
68% [s]	10165/15000 [01:46<00:49, 97.46it/s]
68% [s]	10181/15000 [01:46<00:44, 107.15it/s]
68% [s]	10193/15000 [01:47<00:51, 93.70it/s]
68% [s]	10205/15000 [01:47<00:49, 97.67it/s]
68% [s]	10216/15000 [01:47<00:52, 90.67it/s]
68% [s]	10229/15000 [01:47<00:48, 97.98it/s]
68% [s]	10240/15000 [01:47<00:50, 94.90it/s]
68% [s]	10251/15000 [01:47<00:48, 98.93it/s]
68% [s]	10262/15000 [01:47<00:51, 91.22it/s]
68% [s]	10273/15000 [01:47<00:49, 96.05it/s]

69% [REDACTED] s]	10283/15000 [01:48<00:52, 90.45it/
69% [REDACTED] /s]	10297/15000 [01:48<00:46, 101.14it
69% [REDACTED] /s]	10309/15000 [01:48<00:44, 105.04it
69% [REDACTED] /s]	10321/15000 [01:48<00:43, 107.44it
69% [REDACTED] t/s]	10333/15000 [01:48<00:55, 84.49i
69% [REDACTED] t/s]	10343/15000 [01:48<00:55, 83.78i
69% [REDACTED] t/s]	10353/15000 [01:48<00:54, 85.43i
69% [REDACTED] t/s]	10363/15000 [01:48<00:54, 85.73i
69% [REDACTED] t/s]	10372/15000 [01:49<00:58, 79.66i
69% [REDACTED] t/s]	10385/15000 [01:49<00:52, 88.71i
69% [REDACTED] t/s]	10398/15000 [01:49<00:47, 97.23i
69% [REDACTED] t/s]	10409/15000 [01:49<00:46, 98.65i
69% [REDACTED] t/s]	10420/15000 [01:49<00:45, 99.94i
70% [REDACTED] it/s]	10431/15000 [01:49<00:44, 102.55
70% [REDACTED] it/s]	10442/15000 [01:49<00:45, 100.74
70% [REDACTED] it/s]	10454/15000 [01:49<00:44, 102.23
70% [REDACTED] it/s]	10465/15000 [01:49<00:45, 100.74
70% [REDACTED] t/s]	10476/15000 [01:50<00:56, 79.88i
70% [REDACTED] 5it/s]	10487/15000 [01:50<00:52, 85.3
70% [REDACTED] 4it/s]	10497/15000 [01:50<00:52, 85.2
70% [REDACTED]	10506/15000 [01:50<00:52, 71.2

70% 4it/s]	10506/15000 [01:50<00:59, 74.9
70% 0it/s]	10515/15000 [01:50<00:57, 78.4
70% 2it/s]	10526/15000 [01:50<00:52, 84.5
70% 3it/s]	10535/15000 [01:50<00:57, 77.4
70% 5it/s]	10546/15000 [01:51<00:53, 83.1
70% 1it/s]	10559/15000 [01:51<00:48, 91.5
70% 4it/s]	10572/15000 [01:51<00:44, 99.4
71% it/s]	10585/15000 [01:51<00:41, 105.54
71% 2it/s]	10597/15000 [01:51<00:49, 89.8
71% 6it/s]	10607/15000 [01:51<00:47, 92.4
71% 6it/s]	10618/15000 [01:51<00:45, 96.6
71% 4it/s]	10629/15000 [01:51<00:48, 90.8
71% 4it/s]	10642/15000 [01:51<00:44, 98.3
71% 5it/s]	10656/15000 [01:52<00:41, 105.8
71% 5it/s]	10668/15000 [01:52<00:42, 102.2
71% 7it/s]	10679/15000 [01:52<00:44, 96.0
71% 1it/s]	10690/15000 [01:52<00:44, 97.8
71% 2it/s]	10704/15000 [01:52<00:40, 106.6
71% 4it/s]	10717/15000 [01:52<00:39, 109.7
72% 6it/s]	10729/15000 [01:52<00:42, 100.5
72% 7it/s]	10740/15000 [01:52<00:44, 95.2

72%|
9it/s]

| 10753/15000 [01:53<00:41, 103.3

72%|
0it/s]

| 10766/15000 [01:53<00:39, 108.3

72%|
6it/s]

| 10778/15000 [01:53<00:40, 105.0

72%|
9it/s]

| 10789/15000 [01:53<00:40, 103.2

72%|
9it/s]

| 10800/15000 [01:53<00:40, 104.9

72%|
9it/s]

| 10814/15000 [01:53<00:37, 112.4

72%|
03it/s]

| 10826/15000 [01:53<00:36, 114.

72%|
71it/s]

| 10838/15000 [01:53<00:37, 110.

72%|
6it/s]

| 10850/15000 [01:53<00:42, 97.0

72%|
41it/s]

| 10861/15000 [01:54<00:41, 100.

72%|
9it/s]

| 10872/15000 [01:54<00:41, 99.0

73%|
51it/s]

| 10883/15000 [01:54<00:49, 83.

73%|
69it/s]

| 10893/15000 [01:54<00:47, 85.

73%|
45it/s]

| 10902/15000 [01:54<00:47, 85.

73%|
04it/s]

| 10911/15000 [01:54<00:49, 82.

73%|
85it/s]

| 10920/15000 [01:54<00:51, 78.

73%|
38it/s]

| 10933/15000 [01:54<00:46, 88.

73%|
50it/s]

| 10943/15000 [01:55<00:44, 91.

73%|
03it/s]

| 10953/15000 [01:55<00:45, 88.

73%|
21it/s]

| 10964/15000 [01:55<00:43, 92.

73%|
12it/s]

| 10976/15000 [01:55<00:41, 98.

13it/s	73% [redacted]	10988/15000 [01:55<00:39, 102.
	20it/s]	
	73% [redacted]	10999/15000 [01:55<00:43, 91.
	34it/s]	
	73% [redacted]	11009/15000 [01:55<00:44, 90.
	27it/s]	
	73% [redacted]	11020/15000 [01:55<00:41, 95.
	22it/s]	
	74% [redacted]	11031/15000 [01:55<00:40, 97.
	71it/s]	
	74% [redacted]	11041/15000 [01:56<00:46, 85.
	49it/s]	
	74% [redacted]	11052/15000 [01:56<00:43, 91.
	10it/s]	
	74% [redacted]	11063/15000 [01:56<00:41, 94.
	15it/s]	
	74% [redacted]	11073/15000 [01:56<00:41, 94.
	02it/s]	
	74% [redacted]	11086/15000 [01:56<00:38, 102
	.35it/s]	
	74% [redacted]	11097/15000 [01:56<00:43, 9
	0.44it/s]	
	74% [redacted]	11107/15000 [01:56<00:43, 8
	9.02it/s]	
	74% [redacted]	11118/15000 [01:56<00:42, 9
	1.13it/s]	
	74% [redacted]	11129/15000 [01:56<00:41, 9
	3.99it/s]	
	74% [redacted]	11139/15000 [01:57<00:48, 8
	0.14it/s]	
	74% [redacted]	11158/15000 [01:57<00:40, 9
	4.96it/s]	
	74% [redacted]	11169/15000 [01:57<00:39, 9
	7.46it/s]	
	75% [redacted]	11180/15000 [01:57<00:38, 9
	9.83it/s]	
	75% [redacted]	11191/15000 [01:57<00:38, 9
	8.18it/s]	
	75% [redacted]	11202/15000 [01:57<00:38, 9
	8.96it/s]	

75% 8.31it/s]	11213/15000 [01:57<00:38, 9
75% .53it/s]	11224/15000 [01:57<00:37, 101
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76% 90.32it/s]	11348/15000 [01:59<00:40,
76% 90.81it/s]	11358/15000 [01:59<00:40,
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100.86it/s]

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79% 1, 97.46it/s]	11907/15000 [02:04<00:3
79% 103.93it/s]	11920/15000 [02:04<00:29,



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84%|[0:24, 98.47it/s]

| 12609/15000 [02:12<0

84%|[0:23, 103.07it/s]

| 12621/15000 [02:12<00:

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| 12632/15000 [02:12<0

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| 12642/15000 [02:12<0

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| 12711/15000 [02:13<

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| 12722/15000 [02:13<

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| 12732/15000 [02:13<

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| 12746/15000 [02:13<0

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| 12757/15000 [02:13<

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| 12767/15000 [02:13<

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| 12777/15000 [02:14<

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| 12789/15000 [02:14<

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| 12815/15000 [02:14<0

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| 12827/15000 [02:14<

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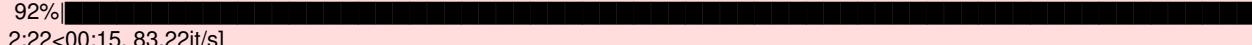
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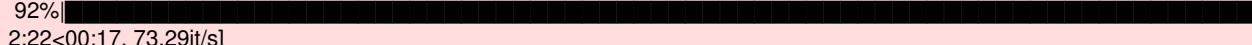
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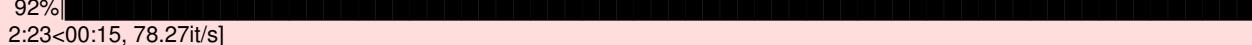
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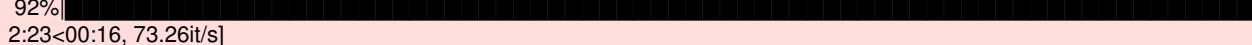
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92%|  | 13757/15000 [0
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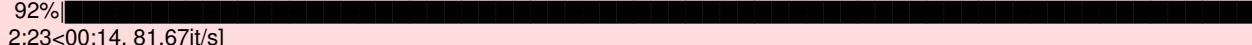
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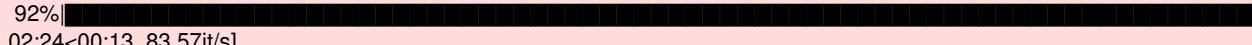
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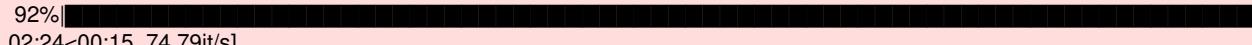
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93% [02:25<00:15, 68.21it/s]	13933/15000 [
93% [02:25<00:15, 67.80it/s]	13940/15000 [
93% [02:25<00:18, 57.12it/s]	13947/15000 [
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93% [02:26<00:16, 63.07it/s]	13988/15000 [
93% [02:26<00:13, 72.82it/s]	14000/15000 [
93% [02:26<00:11, 83.22it/s]	14013/15000 [
93% [02:26<00:12, 80.09it/s]	14023/15000 [
94% [02:26<00:11, 82.34it/s]	14033/15000 [
94% [02:26<00:12, 78.80it/s]	14042/15000
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0 [02:29<00:08, 87.69it/s]

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95%|
0 [02:29<00:08, 85.65it/s] | 14268/1500

95%|
0 [02:30<00:07, 93.80it/s] | 14282/1500

95%|
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95%|
0 [02:30<00:07, 97.45it/s] | 14303/1500

95%|
02:30<00:06, 100.71it/s] | 14315/15000 [

96%|
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96%|
02:30<00:06, 104.63it/s] | 14339/15000 [

96%|
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96%|
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96%|
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96%|
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96%|
0 [02:31<00:06, 97.41it/s] | 14415/1500

96%|
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96%|
[02:31<00:05, 102.13it/s] | 14440/15000

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0 [02:31<00:05, 93.59it/s] | 14451/1500

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98%| 14627/1500
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98%| 14637/150
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98%| 14647/150
00 [02:33<00:03, 95.97it/s]

98%| 14657/150
00 [02:33<00:03, 93.45it/s]

98%| 14667/150
00 [02:34<00:03, 93.61it/s]

98%| 14677/150
00 [02:34<00:03, 83.49it/s]

98%| 14688/150
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98%| 14742/150
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98%| 14753/150
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98%| 14775/150
00 [02:35<00:02, 88.33it/s]

99%| 14787/150
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000 [02:35<00:01, 82.96it/s]

99%| 14852/15
000 [02:36<00:01, 80.32it/s]

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000 [02:36<00:01, 87.33it/s]

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99%| 14883/15
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99%| 14918/150
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100%| 14929/15
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00 [02:37<00:00, 102.39it/s]

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00 [02:37<00:00, 98.62it/s]

100% | 14987/150
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100% | 15000/15
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```
(15000, 50)
[-0.50425123 -0.32438567  0.92798872 -0.1013149  0.20611457 -0.06663647
 -0.03209072  0.31258987  0.31438988  0.25531878 -0.13008698  0.06511116
 0.58041863 -0.47372463 -0.46399672 -0.51515125 -0.77129594  0.2483865
 0.85151952  0.27011061 -0.30276853 -0.21523367 -0.7837952  0.08182834
 0.41738518 -0.40459641 -0.00422852  0.2489816  0.77526352  0.41100503
 0.63356825 -0.18124854  0.09741706 -0.44419457  0.50471989  0.10847995
 0.14653261  0.42807713  0.22115724 -0.01310256  0.43771154 -0.01529299
 0.65040553  0.17406583  0.03115793  0.13084876  0.45536537  0.0274895
 -0.41624962 -0.64223334]
```

In [298]:

```
#Creating set for Avgw2v
Set1_Avgw2vec_Xtrain = hstack((categories_one_hot,subcategories_one_hot,state_one_hot,grade_one_hot,teacher_one_hot,normalized_price_Xtrain,normalized_teacherspost_Xtrain,normalized_qty_Xtrain,sent_vectors_train_essay,sent_vectors_train))
Set1_Avgw2vec_Xcv = hstack((categories_one_hot_Xcv,subcategories_one_hot_Xcv,state_one_hot_Xcv,grade_one_hot_Xcv,teacher_one_hot_Xcv,normalized_price_Xcv,normalized_teacherspost_Xcv,normalized_qty_Xcv,sent_vectors_cv_essay,sent_vectors_cv))
Set1_Avgw2vec_Xtest = hstack((categories_one_hot_Xtest,subcategories_one_hot_Xtest,state_one_hot_Xtest,grade_one_hot_Xtest,teacher_one_hot_Xtest,normalized_price_Xtest,normalized_teacherspost_Xtest,normalized_qty_Xtest,sent_vectors_test_essay,sent_vectors_test))
```

In [299]:

```
X_train_avgw2vec_new = Set1_Avgw2vec_Xtrain.toarray()
X_cv_avgw2vec_new = Set1_Avgw2vec_Xcv.toarray()
X_test_avgw2vec_new = Set1_Avgw2vec_Xtest.toarray()
```

In []:

```
#Training to find best value of K for Avgw2vec model
```

In [300]:

```
train5_auc = []
cv5_auc = []
K5 = [3, 15, 25, 51, 101]
for i in tqdm(K5):
    neigh5 = KNeighborsClassifier(n_neighbors=i, algorithm='brute', n_jobs=-1)
    neigh5.fit(X_train_avgw2vec_new, y_train)

    y_train_pred = batch_predict(neigh5, X_train_avgw2vec_new)
    y_cv_pred = batch_predict(neigh5, X_cv_avgw2vec_new)

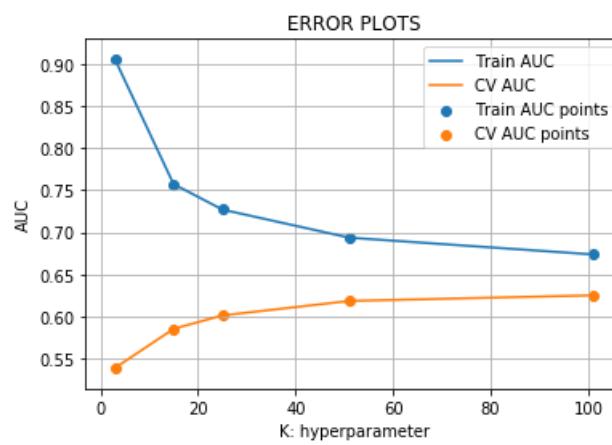
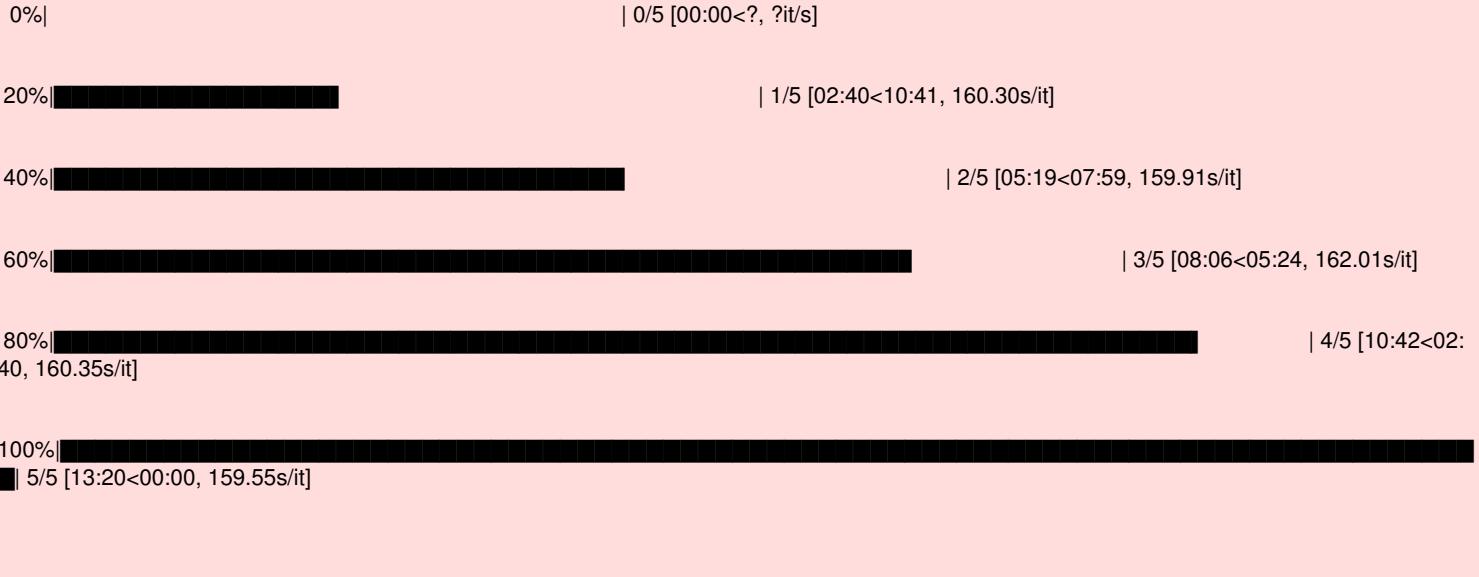
    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
    # not the predicted outputs
    train5_auc.append(roc_auc_score(y_train, y_train_pred))
    cv5_auc.append(roc_auc_score(y_cv, y_cv_pred))

plt.plot(K5, train5_auc, label='Train AUC')
plt.plot(K5, cv5_auc, label='CV AUC')

plt.scatter(K5, train5_auc, label='Train AUC points')
plt.scatter(K5, cv5_auc, label='CV AUC points')

plt.legend()
plt.xlabel("K: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
```

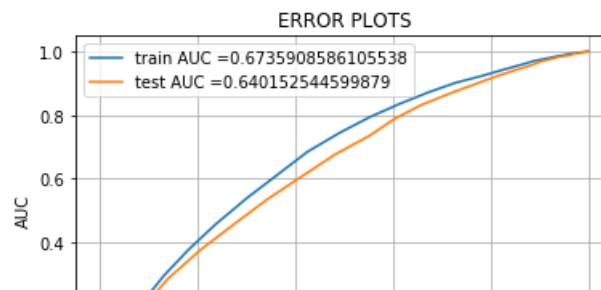
```
plt.show()
```

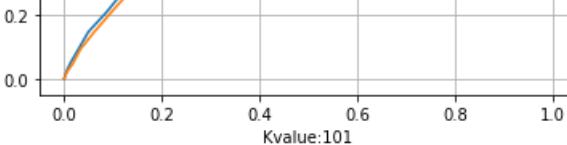


In [302]:

```
# Selecting the Value of Hyperparamter K as 101 since it provides the min differece in Train Auc And Cross Val AUC.  
#Also during majority voting picking odd value of K gives clear winner in selcting class label  
from sklearn.metrics import roc_curve, auc
```

```
neigh6 = KNeighborsClassifier(n_neighbors=101,algorithm='brute', n_jobs=-1)  
neigh6.fit(X_train_avgw2vec_new, y_train)  
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class  
# not the predicted outputs  
  
y_train_pred6 = batch_predict(neigh6, X_train_avgw2vec_new)  
y_test_pred6 = batch_predict(neigh6, X_test_avgw2vec_new)  
  
train_fpr6, train_tpr6, tr_thresholds6 = roc_curve(y_train, y_train_pred6)  
test_fpr6, test_tpr6, te_thresholds6 = roc_curve(y_test, y_test_pred6)  
  
plt.plot(train_fpr6, train_tpr6, label="train AUC =" + str(auc(train_fpr6, train_tpr6)))  
plt.plot(test_fpr6, test_tpr6, label="test AUC =" + str(auc(test_fpr6, test_tpr6)))  
plt.legend()  
plt.xlabel("Kvalue:101")  
plt.ylabel("AUC")  
plt.title("ERROR PLOTS")  
plt.grid()  
plt.show()
```





In [303]:

```
print("*" * 100)
from sklearn.metrics import confusion_matrix
best_t2 = find_best_threshold(tr_thresholds6, train_fpr6, train_tpr6)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred6, best_t2)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred6, best_t2)))
```

=====
the maximum value of tpr*(1-fpr) 0.393761891430695 for threshold 0.851

Train confusion matrix

```
[[ 2258 1665]
 [ 6500 14077]]
```

Test confusion matrix

```
[[1246 1156]
 [4082 8516]]
```

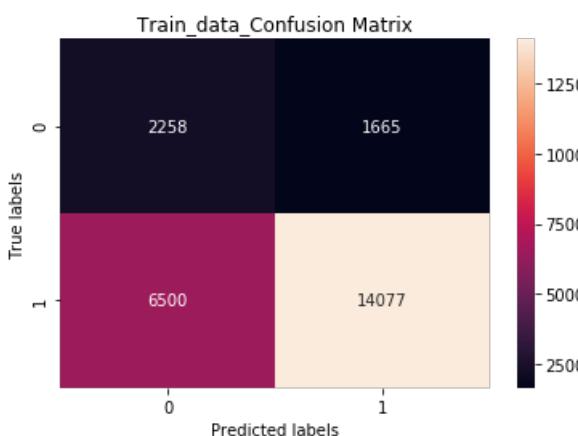
In [304]:

```
cm_avgw2vec_train = confusion_matrix(y_train, predict_with_best_t(y_train_pred6, best_t2))
cm_avgw2vec_test = confusion_matrix(y_test, predict_with_best_t(y_test_pred6, best_t2))
```

In [305]:

```
#Sea born heat map train confusion matrix
ax= plt.subplot()
sns.heatmap(cm_avgw2vec_train, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

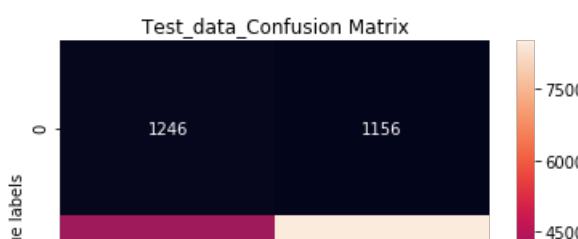
# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Train_data_Confusion Matrix');
```

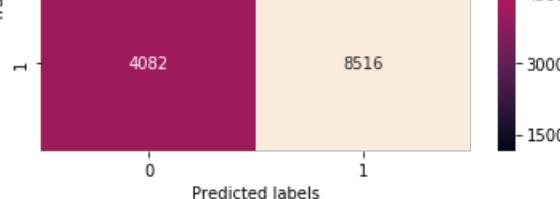


In [332]:

```
#Sea born heat map test confusion matrix
ax= plt.subplot()
sns.heatmap(cm_avgw2vec_test, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Test_data_Confusion Matrix');
```





2.4.4 Applying KNN brute force on TFIDF W2V, SET 4

In []:

```
# Please write all the code with proper documentation
```

In [307]:

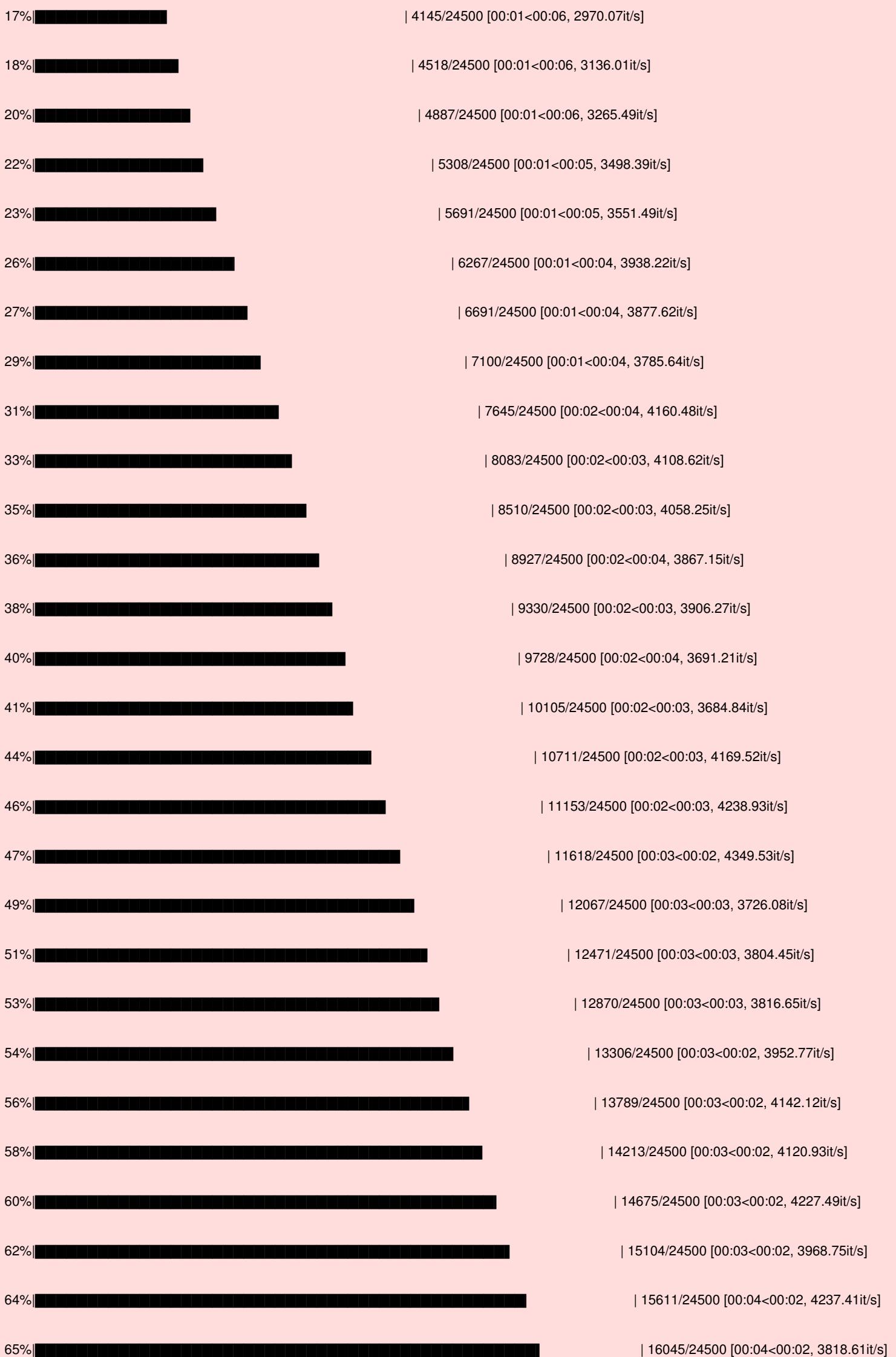
```
tfidf_model1 = TfidfVectorizer()
tfidf_model1.fit(X_train_df['Preprocessed_Project_Title'].values)
# we are converting a dictionary with word as a key, and the idf as a value
dictionary = dict(zip(tfidf_model1.get_feature_names(), list(tfidf_model1.idf_)))
tfidf_words1 = set(tfidf_model1.get_feature_names())
```

In [308]:

```
tfidf_w2v_vectors = []; # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_train_df['Preprocessed_Project_Title'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words) and (word in tfidf_words1):
            vec = w2v_model[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors.append(vector)

print(len(tfidf_w2v_vectors))
print(len(tfidf_w2v_vectors[0]))
```

0%	0/24500 [00:00<?, ?it/s]
0%	58/24500 [00:00<00:50, 482.34it/s]
2% ■	369/24500 [00:00<00:37, 644.69it/s]
3% ■■	844/24500 [00:00<00:27, 868.70it/s]
5% ■■■	1237/24500 [00:00<00:20, 1132.59it/s]
6% ■■■■	1576/24500 [00:00<00:16, 1412.68it/s]
8% ■■■■■	2022/24500 [00:00<00:12, 1776.78it/s]
10% ■■■■■■	2404/24500 [00:00<00:10, 2107.98it/s]
11% ■■■■■■■	2749/24500 [00:00<00:10, 2073.91it/s]
13% ■■■■■■■■	3196/24500 [00:01<00:08, 2460.23it/s]
15% ■■■■■■■■■	3743/24500 [00:01<00:07, 2941.27it/s]



68% [redacted]	16568/24500 [00:04<00:01, 4150.31it/s]
69% [redacted] t/s]	17002/24500 [00:04<00:01, 3855.93it/s]
71% [redacted] 9it/s]	17484/24500 [00:04<00:01, 4051.7it/s]
73% [redacted] 86it/s]	17954/24500 [00:04<00:01, 4223.86it/s]
75% [redacted] 6.07it/s]	18402/24500 [00:04<00:01, 429.607it/s]
77% [redacted] 16.23it/s]	18846/24500 [00:04<00:01, 42.1623it/s]
79% [redacted] 936.95it/s]	19275/24500 [00:04<00:01, 3.93695it/s]
80% [redacted] 3909.92it/s]	19678/24500 [00:05<00:01, 3.90992it/s]
82% [redacted], 4069.32it/s]	20131/24500 [00:05<00:01, 4.06932it/s]
84% [redacted] 00, 4154.57it/s]	20571/24500 [00:05<00:00, 4.15457it/s]
86% [redacted] 00, 4004.82it/s]	20991/24500 [00:05<00:00, 4.00482it/s]
87% [redacted] 0:00, 3501.35it/s]	21396/24500 [00:05<00:00, 3.50135it/s]
89% [redacted] 00:00, 3811.56it/s]	21880/24500 [00:05<00:00, 3.81156it/s]
91% [redacted] 5<00:00, 3270.32it/s]	22280/24500 [00:05<00:00, 3.27032it/s]
93% [redacted] 05<00:00, 3475.20it/s]	22690/24500 [00:05<00:00, 3.4752it/s]
94% [redacted] 05<00:00, 3619.92it/s]	23092/24500 [00:05<00:00, 3.61992it/s]
96% [redacted] 00:06<00:00, 3807.00it/s]	23567/24500 [00:06<00:00, 3.80700it/s]
98% [redacted] [00:06<00:00, 3929.63it/s]	24034/24500 [00:06<00:00, 3.92963it/s]
100% [redacted] 0 [00:06<00:00, 3964.98it/s]	24439/24500 [00:06<00:00, 3.96498it/s]
100% [redacted] 0 [00:06<00:00, 3864.29it/s]	24500/24500 [00:06<00:00, 3.86429it/s]

In [309]:

```

tfidf_w2v_vectors_cv = [] # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_cv_df['Preprocessed_Project_Title'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words) and (word in tfidf_words1):
            vec = w2v_model[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors_cv.append(vector)

print(len(tfidf_w2v_vectors_cv))
print(len(tfidf_w2v_vectors_cv[0]))

```



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| 9936/10500 [00

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100%|
0 [00:02<00:00, 3522.18it/s]

| 10500/1050

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50

In [310]:

```
tfidf_w2v_vectors_test = [] # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_test_df['Preprocessed_Project_Title'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words) and (word in tfidf_words1):
            vec = w2v_model[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors_test.append(vector)

print(len(tfidf_w2v_vectors_test))
print(len(tfidf_w2v_vectors_test[0]))
```

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| 880/15000 [00:00<00:03, 4118.41it/s]

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| 1389/15000 [00:00<00:04, 3125.29it/s]

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19%		2868/15000 [00:00<00:03, 3265.40it/s]
22%		3256/15000 [00:00<00:03, 3394.75it/s]
24%		3590/15000 [00:01<00:03, 3186.35it/s]
26%		3932/15000 [00:01<00:03, 3245.95it/s]
29%		4344/15000 [00:01<00:03, 3458.07it/s]
31%		4693/15000 [00:01<00:02, 3457.84it/s]
34%		5041/15000 [00:01<00:03, 2578.98it/s]
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38%		5722/15000 [00:01<00:03, 2676.05it/s]
40%		6013/15000 [00:01<00:03, 2740.43it/s]
43%		6426/15000 [00:02<00:02, 3043.08it/s]
45%		6793/15000 [00:02<00:02, 3201.44it/s]
48%		7144/15000 [00:02<00:02, 3285.87it/s]
51%		7629/15000 [00:02<00:02, 3631.87it/s]
54%		8054/15000 [00:02<00:01, 3790.13it/s]
56%		8450/15000 [00:02<00:01, 3544.12it/s]
59%		8870/15000 [00:02<00:01, 3698.58it/s]
62%		9337/15000 [00:02<00:01, 3935.95it/s]
65%		9770/15000 [00:02<00:01, 4022.38it/s]
68% s]		10193/15000 [00:02<00:01, 4047.74it/ s]
71% 7it/s]		10605/15000 [00:03<00:01, 3363.0 0it/s]
74% 97it/s]		11046/15000 [00:03<00:01, 3610. 0it/s]
76% 53.70it/s]		11429/15000 [00:03<00:01, 34 0it/s]
79% 371.57it/s]		11792/15000 [00:03<00:00, 3 0it/s]

81%
, 3517.52it/s]

| 12189/15000 [00:03<00:00

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00, 3677.16it/s]

| 12601/15000 [00:03<00:

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| 12978/15000 [00:03<00

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In [311]:

```
tfidf_model2 = TfidfVectorizer()
tfidf_model2.fit(X_train_df['Preprocessed_Essay'].values)
# we are converting a dictionary with word as a key, and the idf as a value
dictionary2 = dict(zip(tfidf_model2.get_feature_names(), list(tfidf_model2.idf_)))
tfidf_words2 = set(tfidf_model2.get_feature_names())
```

In [312]:

```
tfidf_w2v_vectors_essay = []; # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_train_df['Preprocessed_Essay'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words1) and (word in tfidf_words2):
            vec = w2v_model1[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary2[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors_essay.append(vector)

print(len(tfidf_w2v_vectors_essay))
print(len(tfidf_w2v_vectors_essay[0]))
```

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8%|███████████

| 2059/24500 [00:32<06:14, 59.96it/s]

8%|███████████

| 2066/24500 [00:32<06:03, 61.63it/s]

8%|███████████

| 2073/24500 [00:32<05:54, 63.27it/s]

8%|███████████

| 2081/24500 [00:32<05:37, 66.49it/s]

9%|███████████

| 2088/24500 [00:33<06:04, 61.41it/s]

9%|███████████

| 2095/24500 [00:33<06:06, 61.12it/s]

9%|███████████

| 2104/24500 [00:33<05:34, 66.92it/s]

9%|███████████

| 2111/24500 [00:33<05:54, 62.15it/s]

9% [██████████] | 2111/24500 [00:33<05:54, 63.15it/s]

9% [██████████] | 2118/24500 [00:33<05:44, 65.06it/s]

9% [██████████] | 2125/24500 [00:33<06:42, 55.56it/s]

9% [██████████] | 2134/24500 [00:33<05:56, 62.74it/s]

9% [██████████] | 2142/24500 [00:33<06:10, 60.27it/s]

9% [██████████] | 2151/24500 [00:34<05:38, 66.03it/s]

9% [██████████] | 2159/24500 [00:34<05:40, 65.63it/s]

9% [██████████] | 2167/24500 [00:34<05:28, 68.00it/s]

9% [██████████] | 2175/24500 [00:34<05:50, 63.70it/s]

9% [██████████] | 2184/24500 [00:34<05:24, 68.75it/s]

9% [██████████] | 2193/24500 [00:34<05:07, 72.43it/s]

9% [██████████] | 2201/24500 [00:34<05:13, 71.04it/s]

9% [██████████] | 2209/24500 [00:34<05:36, 66.27it/s]

9% [██████████] | 2218/24500 [00:35<05:18, 70.00it/s]

9% [██████████] | 2226/24500 [00:35<05:51, 63.37it/s]

9% [██████████] | 2233/24500 [00:35<05:47, 64.12it/s]

9% [██████████] | 2240/24500 [00:35<06:06, 60.66it/s]

9% [██████████] | 2247/24500 [00:35<06:20, 58.47it/s]

9% [██████████] | 2256/24500 [00:35<05:47, 63.94it/s]

9% [██████████] | 2263/24500 [00:35<06:16, 59.13it/s]

9% [██████████] | 2272/24500 [00:35<05:40, 65.20it/s]

9% [██████████] | 2279/24500 [00:36<05:58, 61.95it/s]

9% [██████████] | 2286/24500 [00:36<06:44, 54.91it/s]

9% [██████████] | 2293/24500 [00:36<06:30, 56.89it/s]

9% [██████████] | 2301/24500 [00:36<06:37, 55.82it/s]

9% [██████████] | 2307/24500 [00:36<07:50, 47.13it/s]

9% [██████████] | 2316/24500 [00:36<07:00, 52.70it/s]

9% [██████████] | 2323/24500 [00:36<06:35, 56.07it/s]

10%| [REDACTED]

| 2330/24500 [00:36<06:12, 59.44it/s]

10%| [REDACTED]

| 2338/24500 [00:37<05:44, 64.37it/s]

10%| [REDACTED]

| 2345/24500 [00:37<05:36, 65.82it/s]

10%| [REDACTED]

| 2352/24500 [00:37<05:58, 61.69it/s]

10%| [REDACTED]

| 2359/24500 [00:37<06:06, 60.38it/s]

10%| [REDACTED]

| 2368/24500 [00:37<05:38, 65.29it/s]

10%| [REDACTED]

| 2375/24500 [00:37<05:37, 65.57it/s]

10%| [REDACTED]

| 2382/24500 [00:37<05:43, 64.31it/s]

10%| [REDACTED]

| 2389/24500 [00:37<05:50, 63.12it/s]

10%| [REDACTED]

| 2396/24500 [00:37<06:13, 59.16it/s]

10%| [REDACTED]

| 2403/24500 [00:38<06:22, 57.79it/s]

10%| [REDACTED]

| 2409/24500 [00:38<06:28, 56.83it/s]

10%| [REDACTED]

| 2417/24500 [00:38<05:58, 61.56it/s]

10%| [REDACTED]

| 2424/24500 [00:38<05:55, 62.05it/s]

10%| [REDACTED]

| 2431/24500 [00:38<05:43, 64.23it/s]

10%| [REDACTED]

| 2438/24500 [00:38<06:15, 58.71it/s]

10%| [REDACTED]

| 2445/24500 [00:38<06:25, 57.14it/s]

10%| [REDACTED]

| 2451/24500 [00:38<06:27, 56.86it/s]

10%| [REDACTED]

| 2458/24500 [00:39<06:14, 58.93it/s]

10%| [REDACTED]

| 2465/24500 [00:39<06:01, 60.94it/s]

10%| [REDACTED]

| 2472/24500 [00:39<06:05, 60.27it/s]

10%| [REDACTED]

| 2479/24500 [00:39<05:53, 62.26it/s]

10%| [REDACTED]

| 2486/24500 [00:39<06:10, 59.46it/s]

10%| [REDACTED]

| 2493/24500 [00:39<06:12, 59.15it/s]

10%| [REDACTED]

| 2499/24500 [00:39<06:38, 55.21it/s]

10%| [REDACTED]

| 2508/24500 [00:39<06:02, 60.69it/s]

10%| [REDACTED]

| 2515/24500 [00:39<06:16, 58.37it/s]

10%| [REDACTED]

| 2522/24500 [00:40<05:54, 62.05it/s]

10%	2523/24500 [00:40<05:34, 62.00it/s]
10%	2537/24500 [00:40<06:16, 58.29it/s]
10%	2545/24500 [00:40<05:52, 62.34it/s]
10%	2552/24500 [00:40<06:03, 60.33it/s]
10%	2559/24500 [00:40<05:48, 62.89it/s]
10%	2566/24500 [00:40<05:43, 63.79it/s]
11%	2573/24500 [00:40<05:47, 63.04it/s]
11%	2580/24500 [00:41<05:46, 63.29it/s]
11%	2591/24500 [00:41<05:11, 70.30it/s]
11%	2599/24500 [00:41<05:51, 62.30it/s]
11%	2607/24500 [00:41<05:33, 65.62it/s]
11%	2614/24500 [00:41<05:31, 65.96it/s]
11%	2621/24500 [00:41<05:29, 66.32it/s]
11%	2628/24500 [00:41<07:12, 50.53it/s]
11%	2634/24500 [00:41<07:00, 52.05it/s]
11%	2641/24500 [00:42<06:37, 54.96it/s]
11%	2647/24500 [00:42<06:36, 55.18it/s]
11%	2655/24500 [00:42<06:15, 58.20it/s]
11%	2663/24500 [00:42<05:55, 61.44it/s]
11%	2670/24500 [00:42<06:02, 60.29it/s]
11%	2677/24500 [00:42<06:33, 55.47it/s]
11%	2683/24500 [00:42<06:24, 56.72it/s]
11%	2689/24500 [00:42<06:38, 54.78it/s]
11%	2696/24500 [00:42<06:12, 58.55it/s]
11%	2703/24500 [00:43<06:10, 58.82it/s]
11%	2709/24500 [00:43<06:55, 52.41it/s]
11%	2715/24500 [00:43<07:51, 46.22it/s]

11%| [REDACTED]

| 2721/24500 [00:43<07:23, 49.07it/s]

11%| [REDACTED]

| 2727/24500 [00:43<07:05, 51.15it/s]

11%| [REDACTED]

| 2735/24500 [00:43<06:24, 56.65it/s]

11%| [REDACTED]

| 2741/24500 [00:43<06:42, 54.09it/s]

11%| [REDACTED]

| 2748/24500 [00:43<06:16, 57.80it/s]

11%| [REDACTED]

| 2755/24500 [00:44<05:59, 60.47it/s]

11%| [REDACTED]

| 2762/24500 [00:44<06:11, 58.59it/s]

11%| [REDACTED]

| 2769/24500 [00:44<06:32, 55.35it/s]

11%| [REDACTED]

| 2775/24500 [00:44<06:40, 54.24it/s]

11%| [REDACTED]

| 2781/24500 [00:44<06:33, 55.23it/s]

11%| [REDACTED]

| 2787/24500 [00:44<06:30, 55.61it/s]

11%| [REDACTED]

| 2793/24500 [00:44<07:05, 51.06it/s]

11%| [REDACTED]

| 2800/24500 [00:44<06:30, 55.54it/s]

11%| [REDACTED]

| 2808/24500 [00:44<06:02, 59.77it/s]

11%| [REDACTED]

| 2815/24500 [00:45<06:13, 58.05it/s]

12%| [REDACTED]

| 2821/24500 [00:45<06:56, 52.07it/s]

12%| [REDACTED]

| 2828/24500 [00:45<06:26, 56.04it/s]

12%| [REDACTED]

| 2835/24500 [00:45<06:08, 58.75it/s]

12%| [REDACTED]

| 2843/24500 [00:45<05:44, 62.82it/s]

12%| [REDACTED]

| 2850/24500 [00:45<06:08, 58.68it/s]

12%| [REDACTED]

| 2858/24500 [00:45<05:43, 63.07it/s]

12%| [REDACTED]

| 2865/24500 [00:45<06:13, 57.96it/s]

12%| [REDACTED]

| 2874/24500 [00:46<05:36, 64.23it/s]

12%| [REDACTED]

| 2881/24500 [00:46<05:29, 65.54it/s]

12%| [REDACTED]

| 2888/24500 [00:46<06:26, 55.88it/s]

12%| [REDACTED]

| 2897/24500 [00:46<05:47, 62.17it/s]

12%| [REDACTED]

| 2904/24500 [00:46<05:41, 63.33it/s]

12%| [REDACTED]

| 2911/24500 [00:46<05:38, 63.73it/s]

12%|

| 2911/24500 [00:46<05:35, 63.73it/s]

12%| [REDACTED]

| 2918/24500 [00:46<05:35, 64.36it/s]

12%| [REDACTED]

| 2925/24500 [00:46<05:52, 61.17it/s]

12%| [REDACTED]

| 2932/24500 [00:47<06:13, 57.81it/s]

12%| [REDACTED]

| 2939/24500 [00:47<05:55, 60.72it/s]

12%| [REDACTED]

| 2947/24500 [00:47<05:40, 63.37it/s]

12%| [REDACTED]

| 2954/24500 [00:47<05:39, 63.44it/s]

12%| [REDACTED]

| 2961/24500 [00:47<05:57, 60.24it/s]

12%| [REDACTED]

| 2968/24500 [00:47<06:25, 55.91it/s]

12%| [REDACTED]

| 2976/24500 [00:47<06:01, 59.57it/s]

12%| [REDACTED]

| 2983/24500 [00:47<05:54, 60.75it/s]

12%| [REDACTED]

| 2991/24500 [00:47<05:36, 63.88it/s]

12%| [REDACTED]

| 2998/24500 [00:48<05:36, 63.85it/s]

12%| [REDACTED]

| 3005/24500 [00:48<05:42, 62.76it/s]

12%| [REDACTED]

| 3012/24500 [00:48<05:50, 61.33it/s]

12%| [REDACTED]

| 3019/24500 [00:48<06:04, 58.89it/s]

12%| [REDACTED]

| 3025/24500 [00:48<06:17, 56.85it/s]

12%| [REDACTED]

| 3031/24500 [00:48<06:18, 56.76it/s]

12%| [REDACTED]

| 3037/24500 [00:48<06:48, 52.59it/s]

12%| [REDACTED]

| 3046/24500 [00:48<06:04, 58.80it/s]

12%| [REDACTED]

| 3054/24500 [00:48<05:40, 63.06it/s]

12%| [REDACTED]

| 3061/24500 [00:49<06:10, 57.86it/s]

13%| [REDACTED]

| 3070/24500 [00:49<05:37, 63.44it/s]

13%| [REDACTED]

| 3077/24500 [00:49<06:12, 57.54it/s]

13%| [REDACTED]

| 3084/24500 [00:49<06:02, 59.04it/s]

13%| [REDACTED]

| 3091/24500 [00:49<05:46, 61.86it/s]

13%| [REDACTED]

| 3098/24500 [00:49<05:57, 59.85it/s]

13%| [REDACTED]

| 3105/24500 [00:49<06:00, 59.35it/s]

13%| [REDACTED]

| 3112/24500 [00:49<06:15, 57.01it/s]

13%| [REDACTED]

| 3118/24500 [00:50<06:14, 57.09it/s]

13%| [REDACTED]

| 3124/24500 [00:50<06:12, 57.42it/s]

13%| [REDACTED]

| 3130/24500 [00:50<06:23, 55.78it/s]

13%| [REDACTED]

| 3136/24500 [00:50<06:30, 54.77it/s]

13%| [REDACTED]

| 3142/24500 [00:50<06:28, 55.05it/s]

13%| [REDACTED]

| 3148/24500 [00:50<06:25, 55.39it/s]

13%| [REDACTED]

| 3154/24500 [00:50<06:28, 54.88it/s]

13%| [REDACTED]

| 3161/24500 [00:50<06:07, 57.99it/s]

13%| [REDACTED]

| 3167/24500 [00:50<06:04, 58.54it/s]

13%| [REDACTED]

| 3173/24500 [00:51<06:02, 58.75it/s]

13%| [REDACTED]

| 3179/24500 [00:51<06:18, 56.33it/s]

13%| [REDACTED]

| 3185/24500 [00:51<06:32, 54.26it/s]

13%| [REDACTED]

| 3192/24500 [00:51<06:24, 55.47it/s]

13%| [REDACTED]

| 3198/24500 [00:51<06:36, 53.67it/s]

13%| [REDACTED]

| 3206/24500 [00:51<06:24, 55.37it/s]

13%| [REDACTED]

| 3214/24500 [00:51<05:56, 59.71it/s]

13%| [REDACTED]

| 3221/24500 [00:51<05:41, 62.38it/s]

13%| [REDACTED]

| 3228/24500 [00:52<06:06, 58.05it/s]

13%| [REDACTED]

| 3235/24500 [00:52<05:55, 59.89it/s]

13%| [REDACTED]

| 3243/24500 [00:52<05:34, 63.61it/s]

13%| [REDACTED]

| 3250/24500 [00:52<05:46, 61.28it/s]

13%| [REDACTED]

| 3257/24500 [00:52<06:09, 57.44it/s]

13%| [REDACTED]

| 3265/24500 [00:52<05:46, 61.28it/s]

13%| [REDACTED]

| 3272/24500 [00:52<06:06, 57.93it/s]

13%| [REDACTED]

| 3278/24500 [00:52<07:06, 49.76it/s]

13%| [REDACTED]

| 3287/24500 [00:53<06:37, 53.38it/s]

13%| [REDACTED]

| 3293/24500 [00:53<06:28, 54.61it/s]

13%	[REDACTED]	3300/24500 [00:53<06:16, 56.25it/s]
13%	[REDACTED]	3306/24500 [00:53<06:20, 55.73it/s]
14%	[REDACTED]	3314/24500 [00:53<05:56, 59.35it/s]
14%	[REDACTED]	3323/24500 [00:53<05:20, 66.07it/s]
14%	[REDACTED]	3331/24500 [00:53<05:07, 68.74it/s]
14%	[REDACTED]	3339/24500 [00:53<05:22, 65.69it/s]
14%	[REDACTED]	3349/24500 [00:53<04:52, 72.28it/s]
14%	[REDACTED]	3357/24500 [00:54<05:23, 65.35it/s]
14%	[REDACTED]	3364/24500 [00:54<05:22, 65.46it/s]
14%	[REDACTED]	3371/24500 [00:54<05:31, 63.72it/s]
14%	[REDACTED]	3378/24500 [00:54<06:14, 56.42it/s]
14%	[REDACTED]	3386/24500 [00:54<05:44, 61.22it/s]
14%	[REDACTED]	3394/24500 [00:54<05:22, 65.49it/s]
14%	[REDACTED]	3401/24500 [00:54<05:21, 65.64it/s]
14%	[REDACTED]	3411/24500 [00:54<04:52, 72.10it/s]
14%	[REDACTED]	3419/24500 [00:55<05:30, 63.72it/s]
14%	[REDACTED]	3428/24500 [00:55<05:05, 69.08it/s]
14%	[REDACTED]	3436/24500 [00:55<04:56, 71.00it/s]
14%	[REDACTED]	3444/24500 [00:55<05:02, 69.66it/s]
14%	[REDACTED]	3452/24500 [00:55<05:22, 65.34it/s]
14%	[REDACTED]	3460/24500 [00:55<05:15, 66.75it/s]
14%	[REDACTED]	3467/24500 [00:55<05:37, 62.28it/s]
14%	[REDACTED]	3476/24500 [00:55<05:06, 68.59it/s]
14%	[REDACTED]	3484/24500 [00:55<05:16, 66.41it/s]
14%	[REDACTED]	3491/24500 [00:56<06:23, 54.71it/s]
14%	[REDACTED]	3497/24500 [00:56<06:20, 55.23it/s]
14%	[REDACTED]	3503/24500 [00:56<06:36, 53.00it/s]

14%| [REDACTED]

| 3509/24500 [00:56<06:27, 54.12it/s]

14%| [REDACTED]

| 3515/24500 [00:56<07:02, 49.66it/s]

14%| [REDACTED]

| 3525/24500 [00:56<06:08, 56.87it/s]

14%| [REDACTED]

| 3533/24500 [00:56<05:48, 60.12it/s]

14%| [REDACTED]

| 3540/24500 [00:56<05:38, 61.94it/s]

14%| [REDACTED]

| 3547/24500 [00:57<05:48, 60.17it/s]

15%| [REDACTED]

| 3554/24500 [00:57<05:56, 58.73it/s]

15%| [REDACTED]

| 3562/24500 [00:57<05:35, 62.34it/s]

15%| [REDACTED]

| 3570/24500 [00:57<05:21, 65.15it/s]

15%| [REDACTED]

| 3577/24500 [00:57<05:36, 62.27it/s]

15%| [REDACTED]

| 3584/24500 [00:57<05:51, 59.43it/s]

15%| [REDACTED]

| 3591/24500 [00:57<05:58, 58.26it/s]

15%| [REDACTED]

| 3597/24500 [00:57<06:09, 56.51it/s]

15%| [REDACTED]

| 3604/24500 [00:58<05:54, 59.00it/s]

15%| [REDACTED]

| 3610/24500 [00:58<06:23, 54.47it/s]

15%| [REDACTED]

| 3620/24500 [00:58<05:43, 60.78it/s]

15%| [REDACTED]

| 3627/24500 [00:58<06:23, 54.43it/s]

15%| [REDACTED]

| 3633/24500 [00:58<06:16, 55.38it/s]

15%| [REDACTED]

| 3640/24500 [00:58<06:11, 56.21it/s]

15%| [REDACTED]

| 3647/24500 [00:58<05:49, 59.73it/s]

15%| [REDACTED]

| 3654/24500 [00:58<05:39, 61.47it/s]

15%| [REDACTED]

| 3661/24500 [00:59<05:35, 62.15it/s]

15%| [REDACTED]

| 3668/24500 [00:59<05:45, 60.25it/s]

15%| [REDACTED]

| 3675/24500 [00:59<05:36, 61.86it/s]

15%| [REDACTED]

| 3683/24500 [00:59<05:16, 65.79it/s]

15%| [REDACTED]

| 3690/24500 [00:59<06:00, 57.71it/s]

15%| [REDACTED]

| 3697/24500 [00:59<06:11, 56.01it/s]

15%| [REDACTED]

| 3704/24500 [00:59<05:54, 58.61it/s]

15%	3711/24500 [00:59<05:41, 60.89it/s]
15%	3718/24500 [00:59<05:59, 57.81it/s]
15%	3724/24500 [01:00<06:20, 54.65it/s]
15%	3732/24500 [01:00<05:59, 57.76it/s]
15%	3738/24500 [01:00<06:05, 56.77it/s]
15%	3744/24500 [01:00<06:51, 50.45it/s]
15%	3750/24500 [01:00<07:22, 46.92it/s]
15%	3756/24500 [01:00<07:15, 47.65it/s]
15%	3762/24500 [01:00<06:54, 50.09it/s]
15%	3768/24500 [01:00<06:37, 52.11it/s]
15%	3776/24500 [01:01<06:02, 57.13it/s]
15%	3783/24500 [01:01<05:43, 60.34it/s]
15%	3791/24500 [01:01<05:23, 64.01it/s]
16%	3798/24500 [01:01<05:32, 62.24it/s]
16%	3805/24500 [01:01<05:51, 58.84it/s]
16%	3812/24500 [01:01<06:27, 53.37it/s]
16%	3820/24500 [01:01<05:53, 58.44it/s]
16%	3828/24500 [01:01<05:40, 60.70it/s]
16%	3835/24500 [01:02<06:19, 54.40it/s]
16%	3844/24500 [01:02<05:36, 61.37it/s]
16%	3851/24500 [01:02<05:47, 59.36it/s]
16%	3858/24500 [01:02<06:02, 56.99it/s]
16%	3865/24500 [01:02<06:03, 56.75it/s]
16%	3875/24500 [01:02<05:23, 63.79it/s]
16%	3882/24500 [01:02<05:27, 62.98it/s]
16%	3889/24500 [01:02<05:22, 63.92it/s]
16%	3896/24500 [01:03<05:17, 64.94it/s]

16%| [REDACTED]

| 3903/24500 [01:03<05:24, 63.49it/s]

16%| [REDACTED]

| 3910/24500 [01:03<06:24, 53.61it/s]

16%| [REDACTED]

| 3916/24500 [01:03<06:55, 49.53it/s]

16%| [REDACTED]

| 3924/24500 [01:03<06:18, 54.36it/s]

16%| [REDACTED]

| 3931/24500 [01:03<05:57, 57.59it/s]

16%| [REDACTED]

| 3938/24500 [01:03<05:48, 59.02it/s]

16%| [REDACTED]

| 3946/24500 [01:03<05:31, 61.92it/s]

16%| [REDACTED]

| 3953/24500 [01:03<05:32, 61.81it/s]

16%| [REDACTED]

| 3962/24500 [01:04<05:07, 66.75it/s]

16%| [REDACTED]

| 3970/24500 [01:04<04:53, 69.96it/s]

16%| [REDACTED]

| 3978/24500 [01:04<04:53, 69.97it/s]

16%| [REDACTED]

| 3986/24500 [01:04<05:12, 65.55it/s]

16%| [REDACTED]

| 3995/24500 [01:04<04:54, 69.73it/s]

16%| [REDACTED]

| 4003/24500 [01:04<04:50, 70.64it/s]

16%| [REDACTED]

| 4011/24500 [01:04<04:52, 70.12it/s]

16%| [REDACTED]

| 4019/24500 [01:04<05:35, 61.12it/s]

16%| [REDACTED]

| 4027/24500 [01:05<05:24, 63.11it/s]

16%| [REDACTED]

| 4036/24500 [01:05<05:11, 65.69it/s]

17%| [REDACTED]

| 4043/24500 [01:05<05:24, 63.01it/s]

17%| [REDACTED]

| 4050/24500 [01:05<05:36, 60.77it/s]

17%| [REDACTED]

| 4057/24500 [01:05<05:42, 59.61it/s]

17%| [REDACTED]

| 4064/24500 [01:05<05:49, 58.53it/s]

17%| [REDACTED]

| 4070/24500 [01:05<07:04, 48.11it/s]

17%| [REDACTED]

| 4078/24500 [01:05<06:15, 54.34it/s]

17%| [REDACTED]

| 4085/24500 [01:06<05:58, 56.87it/s]

17%| [REDACTED]

| 4093/24500 [01:06<05:31, 61.57it/s]

17%| [REDACTED]

| 4101/24500 [01:06<05:24, 62.80it/s]

17%| [REDACTED]

| 4108/24500 [01:06<05:52, 57.78it/s]

17%| [REDACTED]

| 4115/24500 [01:06<05:48, 58.49it/s]

17%| [REDACTED]

| 4122/24500 [01:06<06:08, 55.33it/s]

17%| [REDACTED]

| 4130/24500 [01:06<06:13, 54.54it/s]
| 4137/24500 [01:06<06:06, 55.63it/s]

17%| [REDACTED]

| 4143/24500 [01:07<05:58, 56.84it/s]

17%| [REDACTED]

| 4151/24500 [01:07<05:31, 61.41it/s]
| 4158/24500 [01:07<06:31, 51.94it/s]

17%| [REDACTED]

| 4165/24500 [01:07<06:06, 55.42it/s]

17%| [REDACTED]

| 4172/24500 [01:07<06:01, 56.22it/s]

17%| [REDACTED]

| 4180/24500 [01:07<05:44, 59.01it/s]

17%| [REDACTED]

| 4187/24500 [01:07<06:06, 55.47it/s]

17%| [REDACTED]

| 4194/24500 [01:07<05:43, 59.14it/s]

17%| [REDACTED]

| 4201/24500 [01:08<06:18, 53.59it/s]

17%| [REDACTED]

| 4207/24500 [01:08<06:37, 50.99it/s]

17%| [REDACTED]

| 4213/24500 [01:08<06:49, 49.56it/s]

17%| [REDACTED]

| 4220/24500 [01:08<06:22, 53.00it/s]

17%| [REDACTED]

| 4228/24500 [01:08<05:51, 57.60it/s]

17%| [REDACTED]

| 4234/24500 [01:08<06:07, 55.19it/s]

17%| [REDACTED]

| 4241/24500 [01:08<05:51, 57.59it/s]

17%| [REDACTED]

| 4247/24500 [01:08<05:58, 56.50it/s]

17%| [REDACTED]

| 4255/24500 [01:09<05:33, 60.62it/s]

17%| [REDACTED]

| 4263/24500 [01:09<05:24, 62.46it/s]

17%| [REDACTED]

| 4271/24500 [01:09<05:21, 62.96it/s]

17%| [REDACTED]

| 4278/24500 [01:09<05:18, 63.56it/s]

17%| [REDACTED]

| 4287/24500 [01:09<04:51, 69.26it/s]

18%| [REDACTED]

| 4295/24500 [01:09<04:59, 67.48it/s]

18%| [REDACTED]

| 4303/24500 [01:09<04:52, 69.04it/s]

18%	███████████	4311/24500 [01:09<05:06, 65.93it/s]
18%	███████████	4319/24500 [01:09<04:52, 69.11it/s]
18%	███████████	4327/24500 [01:10<05:29, 61.21it/s]
18%	███████████	4335/24500 [01:10<05:17, 63.61it/s]
18%	███████████	4342/24500 [01:10<05:29, 61.26it/s]
18%	███████████	4349/24500 [01:10<05:21, 62.60it/s]
18%	███████████	4356/24500 [01:10<05:23, 62.20it/s]
18%	███████████	4363/24500 [01:10<05:18, 63.27it/s]
18%	███████████	4370/24500 [01:10<05:46, 58.07it/s]
18%	███████████	4377/24500 [01:10<05:51, 57.30it/s]
18%	███████████	4383/24500 [01:11<05:56, 56.44it/s]
18%	███████████	4390/24500 [01:11<05:52, 56.99it/s]
18%	███████████	4398/24500 [01:11<05:24, 61.89it/s]
18%	███████████	4405/24500 [01:11<06:14, 53.70it/s]
18%	███████████	4412/24500 [01:11<05:56, 56.34it/s]
18%	███████████	4419/24500 [01:11<05:35, 59.83it/s]
18%	███████████	4427/24500 [01:11<05:29, 60.89it/s]
18%	███████████	4434/24500 [01:11<05:28, 61.14it/s]
18%	███████████	4442/24500 [01:12<05:17, 63.21it/s]
18%	███████████	4450/24500 [01:12<05:00, 66.76it/s]
18%	███████████	4457/24500 [01:12<05:13, 64.01it/s]
18%	███████████	4464/24500 [01:12<06:09, 54.17it/s]
18%	███████████	4473/24500 [01:12<05:30, 60.68it/s]
18%	███████████	4481/24500 [01:12<05:22, 62.12it/s]
18%	███████████	4488/24500 [01:12<05:29, 60.67it/s]
18%	███████████	4495/24500 [01:12<05:34, 59.84it/s]
18%	███████████	4502/24500 [01:13<05:26, 61.30it/s]
18%	███████████	4509/24500 [01:13<05:29, 60.59it/s]

18% ███████████	4516/24500 [01:13<05:31, 60.33it/s]
18% ███████████	4523/24500 [01:13<05:22, 61.97it/s]
18% ███████████	4530/24500 [01:13<05:11, 64.15it/s]
19% ███████████	4537/24500 [01:13<05:37, 59.15it/s]
19% ███████████	4544/24500 [01:13<05:38, 58.88it/s]
19% ███████████	4550/24500 [01:13<05:50, 56.91it/s]
19% ███████████	4556/24500 [01:13<06:05, 54.58it/s]
19% ███████████	4562/24500 [01:14<06:01, 55.16it/s]
19% ███████████	4568/24500 [01:14<06:27, 51.42it/s]
19% ███████████	4574/24500 [01:14<06:34, 50.51it/s]
19% ███████████	4581/24500 [01:14<06:09, 53.87it/s]
19% ███████████	4589/24500 [01:14<05:35, 59.36it/s]
19% ███████████	4596/24500 [01:14<05:29, 60.47it/s]
19% ███████████	4603/24500 [01:14<05:40, 58.52it/s]
19% ███████████	4612/24500 [01:14<05:06, 64.99it/s]
19% ███████████	4620/24500 [01:15<05:06, 64.90it/s]
19% ███████████	4629/24500 [01:15<04:49, 68.61it/s]
19% ███████████	4637/24500 [01:15<04:43, 69.97it/s]
19% ███████████	4645/24500 [01:15<05:49, 56.79it/s]
19% ███████████	4653/24500 [01:15<05:27, 60.57it/s]
19% ███████████	4662/24500 [01:15<05:13, 63.36it/s]
19% ███████████	4669/24500 [01:15<05:15, 62.91it/s]
19% ███████████	4680/24500 [01:15<04:45, 69.45it/s]
19% ███████████	4688/24500 [01:16<05:15, 62.78it/s]
19% ███████████	4695/24500 [01:16<05:08, 64.13it/s]
19% ███████████	4702/24500 [01:16<05:11, 63.46it/s]
19% ███████████	4709/24500 [01:16<05:07, 64.44it/s]

19% ███████████	4716/24500 [01:16<05:01, 65.69it/s]
19% ███████████	4723/24500 [01:16<05:24, 60.88it/s]
19% ███████████	4730/24500 [01:16<05:26, 60.61it/s]
19% ███████████	4737/24500 [01:16<05:29, 59.96it/s]
19% ███████████	4745/24500 [01:16<05:06, 64.40it/s]
19% ███████████	4752/24500 [01:17<05:15, 62.51it/s]
19% ███████████	4759/24500 [01:17<05:20, 61.66it/s]
19% ███████████	4767/24500 [01:17<05:13, 63.02it/s]
19% ███████████	4775/24500 [01:17<05:00, 65.73it/s]
20% ███████████	4783/24500 [01:17<04:51, 67.57it/s]
20% ███████████	4791/24500 [01:17<04:38, 70.87it/s]
20% ███████████	4799/24500 [01:17<04:32, 72.28it/s]
20% ███████████	4807/24500 [01:17<04:46, 68.65it/s]
20% ███████████	4815/24500 [01:17<04:34, 71.67it/s]
20% ███████████	4823/24500 [01:18<05:05, 64.37it/s]
20% ███████████	4830/24500 [01:18<06:22, 51.44it/s]
20% ███████████	4836/24500 [01:18<06:20, 51.70it/s]
20% ███████████	4845/24500 [01:18<05:47, 56.51it/s]
20% ███████████	4852/24500 [01:18<05:59, 54.69it/s]
20% ███████████	4860/24500 [01:18<05:31, 59.25it/s]
20% ███████████	4868/24500 [01:18<05:18, 61.63it/s]
20% ███████████	4875/24500 [01:19<05:37, 58.09it/s]
20% ███████████	4885/24500 [01:19<05:04, 64.35it/s]
20% ███████████	4892/24500 [01:19<05:25, 60.23it/s]
20% ███████████	4899/24500 [01:19<05:28, 59.61it/s]
20% ███████████	4906/24500 [01:19<05:21, 60.86it/s]
20% ███████████	4913/24500 [01:19<05:48, 56.26it/s]
20% ███████████	4919/24500 [01:19<05:51, 55.73it/s]

20% ███████████	4927/24500 [01:19<05:25, 60.08it/s]
20% ███████████	4934/24500 [01:20<05:21, 60.93it/s]
20% ███████████	4942/24500 [01:20<05:05, 64.02it/s]
20% ███████████	4949/24500 [01:20<05:47, 56.32it/s]
20% ███████████	4955/24500 [01:20<06:01, 54.02it/s]
20% ███████████	4962/24500 [01:20<05:41, 57.18it/s]
20% ███████████	4969/24500 [01:20<05:25, 60.08it/s]
20% ███████████	4976/24500 [01:20<05:44, 56.70it/s]
20% ███████████	4983/24500 [01:20<05:32, 58.66it/s]
20% ███████████	4991/24500 [01:20<05:09, 63.05it/s]
20% ███████████	4998/24500 [01:21<05:14, 62.10it/s]
20% ███████████	5005/24500 [01:21<05:20, 60.92it/s]
20% ███████████	5012/24500 [01:21<05:07, 63.37it/s]
20% ███████████	5019/24500 [01:21<05:15, 61.78it/s]
21% ███████████	5028/24500 [01:21<04:54, 66.13it/s]
21% ███████████	5035/24500 [01:21<05:22, 60.27it/s]
21% ███████████	5042/24500 [01:21<05:16, 61.48it/s]
21% ███████████	5050/24500 [01:21<04:55, 65.79it/s]
21% ███████████	5057/24500 [01:22<05:14, 61.81it/s]
21% ███████████	5066/24500 [01:22<04:49, 67.19it/s]
21% ███████████	5073/24500 [01:22<05:05, 63.56it/s]
21% ███████████	5082/24500 [01:22<04:42, 68.75it/s]
21% ███████████	5090/24500 [01:22<04:37, 69.95it/s]
21% ███████████	5098/24500 [01:22<04:34, 70.79it/s]
21% ███████████	5106/24500 [01:22<04:42, 68.70it/s]
21% ███████████	5114/24500 [01:22<04:37, 69.87it/s]
21% ███████████	5122/24500 [01:22<04:41, 68.88it/s]

21%| [REDACTED]

| 5129/24500 [01:23<04:55, 65.46it/s]

21%| [REDACTED]

| 5136/24500 [01:23<05:06, 63.15it/s]

21%| [REDACTED]

| 5144/24500 [01:23<04:53, 65.95it/s]

21%| [REDACTED]

| 5151/24500 [01:23<05:45, 55.93it/s]

21%| [REDACTED]

| 5157/24500 [01:23<06:02, 53.34it/s]

21%| [REDACTED]

| 5163/24500 [01:23<06:09, 52.40it/s]

21%| [REDACTED]

| 5170/24500 [01:23<05:41, 56.57it/s]

21%| [REDACTED]

| 5176/24500 [01:23<05:36, 57.44it/s]

21%| [REDACTED]

| 5182/24500 [01:24<05:45, 55.95it/s]

21%| [REDACTED]

| 5188/24500 [01:24<05:47, 55.57it/s]

21%| [REDACTED]

| 5194/24500 [01:24<05:57, 53.98it/s]

21%| [REDACTED]

| 5203/24500 [01:24<05:36, 57.42it/s]

21%| [REDACTED]

| 5209/24500 [01:24<06:27, 49.83it/s]

21%| [REDACTED]

| 5215/24500 [01:24<06:10, 52.03it/s]

21%| [REDACTED]

| 5221/24500 [01:24<06:11, 51.85it/s]

21%| [REDACTED]

| 5229/24500 [01:24<05:35, 57.49it/s]

21%| [REDACTED]

| 5236/24500 [01:25<06:28, 49.57it/s]

21%| [REDACTED]

| 5242/24500 [01:25<06:26, 49.78it/s]

21%| [REDACTED]

| 5249/24500 [01:25<05:58, 53.66it/s]

21%| [REDACTED]

| 5255/24500 [01:25<06:07, 52.41it/s]

21%| [REDACTED]

| 5262/24500 [01:25<05:46, 55.44it/s]

22%| [REDACTED]

| 5270/24500 [01:25<05:16, 60.75it/s]

22%| [REDACTED]

| 5277/24500 [01:25<05:08, 62.38it/s]

22%| [REDACTED]

| 5284/24500 [01:25<05:10, 61.97it/s]

22%| [REDACTED]

| 5291/24500 [01:25<05:19, 60.10it/s]

22%| [REDACTED]

| 5298/24500 [01:26<05:13, 61.16it/s]

22%| [REDACTED]

| 5305/24500 [01:26<05:11, 61.58it/s]

22%| [REDACTED]

| 5312/24500 [01:26<05:04, 62.99it/s]

22%| [REDACTED]

| 5319/24500 [01:26<05:39, 56.51it/s]

22%| [REDACTED]

| 5328/24500 [01:26<05:08, 62.23it/s]

22%| [REDACTED]

| 5336/24500 [01:26<04:58, 64.10it/s]

22%| [REDACTED]

| 5343/24500 [01:26<05:11, 61.58it/s]

22%| [REDACTED]

| 5351/24500 [01:26<04:53, 65.21it/s]

22%| [REDACTED]

| 5358/24500 [01:27<05:31, 57.70it/s]

22%| [REDACTED]

| 5365/24500 [01:27<05:42, 55.85it/s]

22%| [REDACTED]

| 5372/24500 [01:27<05:25, 58.77it/s]

22%| [REDACTED]

| 5379/24500 [01:27<05:59, 53.20it/s]

22%| [REDACTED]

| 5385/24500 [01:27<05:56, 53.59it/s]

22%| [REDACTED]

| 5393/24500 [01:27<05:25, 58.70it/s]

22%| [REDACTED]

| 5400/24500 [01:27<05:44, 55.39it/s]

22%| [REDACTED]

| 5406/24500 [01:27<05:37, 56.65it/s]

22%| [REDACTED]

| 5415/24500 [01:28<05:06, 62.37it/s]

22%| [REDACTED]

| 5422/24500 [01:28<05:09, 61.69it/s]

22%| [REDACTED]

| 5429/24500 [01:28<05:06, 62.24it/s]

22%| [REDACTED]

| 5436/24500 [01:28<05:07, 62.08it/s]

22%| [REDACTED]

| 5443/24500 [01:28<05:13, 60.81it/s]

22%| [REDACTED]

| 5450/24500 [01:28<05:09, 61.62it/s]

22%| [REDACTED]

| 5458/24500 [01:28<04:54, 64.57it/s]

22%| [REDACTED]

| 5465/24500 [01:28<04:52, 65.14it/s]

22%| [REDACTED]

| 5472/24500 [01:28<04:49, 65.64it/s]

22%| [REDACTED]

| 5479/24500 [01:29<05:32, 57.12it/s]

22%| [REDACTED]

| 5487/24500 [01:29<05:08, 61.59it/s]

22%| [REDACTED]

| 5494/24500 [01:29<05:33, 56.99it/s]

22%| [REDACTED]

| 5501/24500 [01:29<05:21, 59.03it/s]

22%| [REDACTED]

| 5508/24500 [01:29<05:48, 54.48it/s]

23%		5514/24500 [01:29<06:00, 52.68it/s]
23%		5522/24500 [01:29<05:34, 56.73it/s]
23%		5528/24500 [01:29<05:58, 52.99it/s]
23%		5534/24500 [01:30<06:53, 45.90it/s]
23%		5542/24500 [01:30<06:10, 51.12it/s]
23%		5549/24500 [01:30<05:43, 55.11it/s]
23%		5557/24500 [01:30<05:18, 59.48it/s]
23%		5564/24500 [01:30<05:04, 62.28it/s]
23%		5571/24500 [01:30<05:47, 54.48it/s]
23%		5577/24500 [01:30<05:41, 55.46it/s]
23%		5585/24500 [01:30<05:21, 58.85it/s]
23%		5592/24500 [01:31<05:22, 58.71it/s]
23%		5599/24500 [01:31<05:30, 57.15it/s]
23%		5606/24500 [01:31<05:23, 58.38it/s]
23%		5613/24500 [01:31<05:07, 61.37it/s]
23%		5620/24500 [01:31<05:08, 61.11it/s]
23%		5627/24500 [01:31<05:32, 56.71it/s]
23%		5634/24500 [01:31<05:18, 59.22it/s]
23%		5642/24500 [01:31<05:00, 62.70it/s]
23%		5650/24500 [01:31<04:44, 66.37it/s]
23%		5657/24500 [01:32<04:44, 66.34it/s]
23%		5664/24500 [01:32<04:58, 63.01it/s]
23%		5671/24500 [01:32<05:30, 57.02it/s]
23%		5678/24500 [01:32<05:19, 58.89it/s]
23%		5685/24500 [01:32<05:36, 55.93it/s]
23%		5692/24500 [01:32<05:29, 57.11it/s]
23%		5698/24500 [01:32<05:27, 57.36it/s]
23%		5704/24500 [01:32<05:44, 54.56it/s]

23%	5711/24500 [01:33<05:27, 57.40it/s]
23%	5717/24500 [01:33<05:29, 57.01it/s]
23%	5723/24500 [01:33<05:33, 56.27it/s]
23%	5729/24500 [01:33<05:49, 53.66it/s]
23%	5735/24500 [01:33<05:53, 53.05it/s]
23%	5741/24500 [01:33<06:12, 50.30it/s]
23%	5748/24500 [01:33<05:49, 53.65it/s]
23%	5754/24500 [01:33<05:53, 53.08it/s]
24%	5760/24500 [01:34<06:31, 47.92it/s]
24%	5768/24500 [01:34<05:51, 53.32it/s]
24%	5776/24500 [01:34<05:27, 57.22it/s]
24%	5783/24500 [01:34<06:15, 49.90it/s]
24%	5790/24500 [01:34<05:44, 54.34it/s]
24%	5798/24500 [01:34<05:18, 58.78it/s]
24%	5805/24500 [01:34<05:18, 58.74it/s]
24%	5812/24500 [01:34<05:31, 56.32it/s]
24%	5818/24500 [01:35<05:34, 55.93it/s]
24%	5824/24500 [01:35<05:27, 57.07it/s]
24%	5835/24500 [01:35<04:52, 63.82it/s]
24%	5842/24500 [01:35<05:16, 59.01it/s]
24%	5849/24500 [01:35<05:01, 61.84it/s]
24%	5857/24500 [01:35<04:52, 63.78it/s]
24%	5864/24500 [01:35<05:18, 58.47it/s]
24%	5871/24500 [01:35<05:24, 57.47it/s]
24%	5877/24500 [01:35<05:33, 55.91it/s]
24%	5884/24500 [01:36<05:25, 57.18it/s]
24%	5892/24500 [01:36<05:00, 61.94it/s]

24%	5899/24500 [01:36<05:13, 59.27it/s]
24%	5906/24500 [01:36<05:35, 55.37it/s]
24%	5913/24500 [01:36<05:22, 57.59it/s]
24%	5920/24500 [01:36<05:13, 59.31it/s]
24%	5927/24500 [01:36<05:27, 56.70it/s]
24%	5934/24500 [01:36<05:09, 59.94it/s]
24%	5941/24500 [01:37<04:57, 62.35it/s]
24%	5948/24500 [01:37<04:59, 61.91it/s]
24%	5955/24500 [01:37<05:18, 58.29it/s]
24%	5961/24500 [01:37<05:18, 58.23it/s]
24%	5967/24500 [01:37<05:16, 58.64it/s]
24%	5973/24500 [01:37<05:19, 58.07it/s]
24%	5981/24500 [01:37<04:52, 63.26it/s]
24%	5988/24500 [01:37<06:14, 49.48it/s]
24%	5994/24500 [01:38<06:00, 51.32it/s]
24%	6000/24500 [01:38<06:40, 46.22it/s]
25%	6007/24500 [01:38<05:59, 51.45it/s]
25%	6013/24500 [01:38<06:12, 49.59it/s]
25%	6019/24500 [01:38<05:55, 51.94it/s]
25%	6025/24500 [01:38<05:53, 52.33it/s]
25%	6031/24500 [01:38<05:50, 52.74it/s]
25%	6038/24500 [01:38<05:46, 53.33it/s]
25%	6044/24500 [01:38<05:36, 54.83it/s]
25%	6050/24500 [01:39<06:06, 50.32it/s]
25%	6056/24500 [01:39<06:01, 51.04it/s]
25%	6065/24500 [01:39<05:20, 57.55it/s]
25%	6073/24500 [01:39<05:07, 59.99it/s]
25%	6080/24500 [01:39<05:48, 52.92it/s]

25%	6086/24500 [01:39<06:00, 51.02it/s]
25%	6094/24500 [01:39<05:24, 56.77it/s]
25%	6101/24500 [01:39<05:25, 56.45it/s]
25%	6107/24500 [01:40<05:29, 55.80it/s]
25%	6115/24500 [01:40<05:11, 59.00it/s]
25%	6122/24500 [01:40<05:22, 57.02it/s]
25%	6130/24500 [01:40<04:55, 62.07it/s]
25%	6137/24500 [01:40<05:31, 55.33it/s]
25%	6145/24500 [01:40<05:02, 60.59it/s]
25%	6153/24500 [01:40<04:44, 64.60it/s]
25%	6160/24500 [01:40<05:02, 60.69it/s]
25%	6167/24500 [01:41<05:15, 58.07it/s]
25%	6174/24500 [01:41<05:43, 53.33it/s]
25%	6180/24500 [01:41<05:55, 51.59it/s]
25%	6188/24500 [01:41<05:21, 57.04it/s]
25%	6195/24500 [01:41<05:11, 58.85it/s]
25%	6203/24500 [01:41<04:56, 61.80it/s]
25%	6210/24500 [01:41<05:24, 56.41it/s]
25%	6217/24500 [01:41<05:05, 59.84it/s]
25%	6224/24500 [01:42<05:08, 59.33it/s]
25%	6233/24500 [01:42<04:39, 65.24it/s]
25%	6241/24500 [01:42<04:26, 68.48it/s]
26%	6249/24500 [01:42<04:42, 64.49it/s]
26%	6256/24500 [01:42<05:12, 58.46it/s]
26%	6263/24500 [01:42<05:23, 56.44it/s]
26%	6272/24500 [01:42<04:56, 61.50it/s]
26%	6279/24500 [01:42<05:01, 60.50it/s]

26% ███████████	6286/24500 [01:43<05:04, 59.86it/s]
26% ███████████	6293/24500 [01:43<04:50, 62.57it/s]
26% ███████████	6300/24500 [01:43<04:41, 64.59it/s]
26% ███████████	6309/24500 [01:43<04:26, 68.31it/s]
26% ███████████	6316/24500 [01:43<05:02, 60.03it/s]
26% ███████████	6326/24500 [01:43<04:31, 66.82it/s]
26% ███████████	6334/24500 [01:43<04:36, 65.74it/s]
26% ███████████	6342/24500 [01:43<04:34, 66.16it/s]
26% ███████████	6349/24500 [01:43<05:04, 59.58it/s]
26% ███████████	6356/24500 [01:44<05:37, 53.77it/s]
26% ███████████	6362/24500 [01:44<05:26, 55.48it/s]
26% ███████████	6369/24500 [01:44<05:18, 56.84it/s]
26% ███████████	6376/24500 [01:44<05:11, 58.10it/s]
26% ███████████	6384/24500 [01:44<04:50, 62.42it/s]
26% ███████████	6391/24500 [01:44<04:48, 62.78it/s]
26% ███████████	6398/24500 [01:44<04:50, 62.38it/s]
26% ███████████	6405/24500 [01:44<04:45, 63.45it/s]
26% ███████████	6412/24500 [01:45<05:03, 59.58it/s]
26% ███████████	6419/24500 [01:45<04:57, 60.73it/s]
26% ███████████	6426/24500 [01:45<04:53, 61.58it/s]
26% ███████████	6433/24500 [01:45<05:06, 58.95it/s]
26% ███████████	6441/24500 [01:45<04:46, 63.06it/s]
26% ███████████	6448/24500 [01:45<05:14, 57.31it/s]
26% ███████████	6455/24500 [01:45<04:59, 60.18it/s]
26% ███████████	6462/24500 [01:45<04:50, 62.04it/s]
26% ███████████	6469/24500 [01:45<05:01, 59.84it/s]
26% ███████████	6476/24500 [01:46<05:01, 59.73it/s]
26% ███████████	6483/24500 [01:46<05:41, 52.75it/s]

26% ███████████	6489/24500 [01:46<05:46, 51.92it/s]
27% ███████████	6497/24500 [01:46<05:10, 57.98it/s]
27% ███████████	6504/24500 [01:46<05:36, 53.53it/s]
27% ███████████	6510/24500 [01:46<05:57, 50.35it/s]
27% ███████████	6517/24500 [01:46<05:45, 52.11it/s]
27% ███████████	6524/24500 [01:47<05:41, 52.61it/s]
27% ███████████	6531/24500 [01:47<05:16, 56.68it/s]
27% ███████████	6539/24500 [01:47<04:55, 60.86it/s]
27% ███████████	6546/24500 [01:47<05:03, 59.19it/s]
27% ███████████	6553/24500 [01:47<04:59, 59.85it/s]
27% ███████████	6563/24500 [01:47<04:34, 65.24it/s]
27% ███████████	6570/24500 [01:47<05:35, 53.51it/s]
27% ███████████	6579/24500 [01:47<04:56, 60.39it/s]
27% ███████████	6586/24500 [01:48<05:07, 58.30it/s]
27% ███████████	6593/24500 [01:48<05:14, 56.90it/s]
27% ███████████	6600/24500 [01:48<04:59, 59.85it/s]
27% ███████████	6610/24500 [01:48<04:28, 66.73it/s]
27% ███████████	6618/24500 [01:48<04:22, 68.04it/s]
27% ███████████	6626/24500 [01:48<04:18, 69.26it/s]
27% ███████████	6634/24500 [01:48<04:37, 64.39it/s]
27% ███████████	6642/24500 [01:48<04:23, 67.75it/s]
27% ███████████	6650/24500 [01:48<04:15, 69.86it/s]
27% ███████████	6658/24500 [01:49<04:25, 67.20it/s]
27% ███████████	6665/24500 [01:49<05:53, 50.46it/s]
27% ███████████	6673/24500 [01:49<05:14, 56.60it/s]
27% ███████████	6681/24500 [01:49<04:53, 60.70it/s]
27% ███████████	6691/24500 [01:49<04:27, 66.54it/s]

27%	6699/24500 [01:49<04:22, 67.72it/s]
27%	6707/24500 [01:49<04:36, 64.28it/s]
27%	6716/24500 [01:49<04:16, 69.22it/s]
27%	6725/24500 [01:50<04:01, 73.51it/s]
27%	6733/24500 [01:50<03:56, 74.99it/s]
28%	6742/24500 [01:50<03:47, 78.17it/s]
28%	6751/24500 [01:50<03:56, 74.95it/s]
28%	6759/24500 [01:50<04:08, 71.35it/s]
28%	6767/24500 [01:50<04:54, 60.31it/s]
28%	6775/24500 [01:50<04:36, 64.07it/s]
28%	6782/24500 [01:50<04:32, 65.06it/s]
28%	6790/24500 [01:51<04:39, 63.41it/s]
28%	6797/24500 [01:51<04:39, 63.43it/s]
28%	6804/24500 [01:51<04:33, 64.61it/s]
28%	6811/24500 [01:51<04:50, 60.92it/s]
28%	6818/24500 [01:51<05:01, 58.66it/s]
28%	6827/24500 [01:51<04:39, 63.30it/s]
28%	6834/24500 [01:51<04:31, 65.14it/s]
28%	6841/24500 [01:51<04:36, 63.98it/s]
28%	6848/24500 [01:51<04:33, 64.63it/s]
28%	6855/24500 [01:52<05:23, 54.59it/s]
28%	6862/24500 [01:52<05:02, 58.29it/s]
28%	6869/24500 [01:52<05:04, 57.91it/s]
28%	6875/24500 [01:52<05:24, 54.29it/s]
28%	6881/24500 [01:52<05:48, 50.57it/s]
28%	6889/24500 [01:52<05:14, 56.04it/s]
28%	6896/24500 [01:52<05:03, 58.02it/s]
28%	6903/24500 [01:52<04:50, 60.57it/s]

28%	6910/24500 [01:53<05:26, 53.92it/s]
28%	6917/24500 [01:53<05:12, 56.18it/s]
28%	6926/24500 [01:53<04:40, 62.67it/s]
28%	6933/24500 [01:53<04:46, 61.39it/s]
28%	6941/24500 [01:53<04:30, 65.00it/s]
28%	6948/24500 [01:53<04:50, 60.50it/s]
28%	6955/24500 [01:53<04:49, 60.51it/s]
28%	6962/24500 [01:53<04:56, 59.20it/s]
28%	6969/24500 [01:54<04:46, 61.11it/s]
28%	6976/24500 [01:54<04:38, 62.84it/s]
29%	6983/24500 [01:54<04:59, 58.43it/s]
29%	6989/24500 [01:54<05:55, 49.30it/s]
29%	6995/24500 [01:54<05:41, 51.32it/s]
29%	7004/24500 [01:54<04:59, 58.43it/s]
29%	7011/24500 [01:54<05:21, 54.41it/s]
29%	7018/24500 [01:54<05:04, 57.48it/s]
29%	7026/24500 [01:55<04:42, 61.81it/s]
29%	7033/24500 [01:55<04:39, 62.39it/s]
29%	7041/24500 [01:55<04:22, 66.40it/s]
29%	7049/24500 [01:55<04:16, 68.02it/s]
29%	7056/24500 [01:55<04:43, 61.48it/s]
29%	7064/24500 [01:55<04:41, 62.03it/s]
29%	7072/24500 [01:55<04:28, 64.94it/s]
29%	7079/24500 [01:55<05:24, 53.75it/s]
29%	7085/24500 [01:56<05:24, 53.67it/s]
29%	7092/24500 [01:56<05:16, 55.03it/s]
29%	7098/24500 [01:56<05:21, 54.04it/s]

29%		7105/24500 [01:56<05:03, 57.40it/s]
29%		7111/24500 [01:56<05:12, 55.56it/s]
29%		7117/24500 [01:56<05:18, 54.64it/s]
29%		7125/24500 [01:56<04:51, 59.59it/s]
29%		7132/24500 [01:56<05:03, 57.30it/s]
29%		7138/24500 [01:56<05:13, 55.36it/s]
29%		7146/24500 [01:57<04:50, 59.69it/s]
29%		7154/24500 [01:57<04:28, 64.61it/s]
29%		7161/24500 [01:57<05:02, 57.25it/s]
29%		7168/24500 [01:57<05:30, 52.49it/s]
29%		7174/24500 [01:57<05:31, 52.21it/s]
29%		7182/24500 [01:57<04:59, 57.85it/s]
29%		7189/24500 [01:57<05:10, 55.81it/s]
29%		7198/24500 [01:57<04:37, 62.36it/s]
29%		7205/24500 [01:58<04:35, 62.88it/s]
29%		7215/24500 [01:58<04:12, 68.35it/s]
29%		7223/24500 [01:58<04:14, 67.83it/s]
30%		7231/24500 [01:58<04:29, 64.18it/s]
30%		7238/24500 [01:58<04:51, 59.20it/s]
30%		7245/24500 [01:58<05:10, 55.52it/s]
30%		7251/24500 [01:58<05:17, 54.39it/s]
30%		7257/24500 [01:58<05:08, 55.95it/s]
30%		7264/24500 [01:59<04:57, 58.02it/s]
30%		7270/24500 [01:59<05:13, 54.97it/s]
30%		7276/24500 [01:59<05:11, 55.28it/s]
30%		7282/24500 [01:59<05:30, 52.14it/s]
30%		7288/24500 [01:59<05:25, 52.84it/s]
30%		7295/24500 [01:59<05:01, 57.01it/s]

30%	7303/24500 [01:59<04:41, 61.02it/s]
30%	7310/24500 [01:59<04:38, 61.76it/s]
30%	7317/24500 [01:59<04:46, 60.04it/s]
30%	7324/24500 [02:00<05:11, 55.16it/s]
30%	7333/24500 [02:00<04:43, 60.57it/s]
30%	7340/24500 [02:00<05:12, 55.00it/s]
30%	7349/24500 [02:00<04:39, 61.34it/s]
30%	7356/24500 [02:00<04:40, 61.17it/s]
30%	7363/24500 [02:00<04:36, 62.02it/s]
30%	7370/24500 [02:00<04:31, 63.05it/s]
30%	7377/24500 [02:00<04:35, 62.10it/s]
30%	7384/24500 [02:01<04:52, 58.53it/s]
30%	7391/24500 [02:01<04:41, 60.77it/s]
30%	7398/24500 [02:01<04:33, 62.53it/s]
30%	7405/24500 [02:01<04:46, 59.63it/s]
30%	7412/24500 [02:01<04:51, 58.58it/s]
30%	7419/24500 [02:01<04:37, 61.57it/s]
30%	7426/24500 [02:01<04:37, 61.48it/s]
30%	7434/24500 [02:01<04:18, 66.03it/s]
30%	7441/24500 [02:01<04:21, 65.20it/s]
30%	7448/24500 [02:02<04:16, 66.50it/s]
30%	7455/24500 [02:02<04:27, 63.81it/s]
30%	7462/24500 [02:02<04:37, 61.30it/s]
30%	7469/24500 [02:02<05:32, 51.29it/s]
31%	7475/24500 [02:02<05:27, 51.91it/s]
31%	7481/24500 [02:02<05:15, 53.99it/s]
31%	7487/24500 [02:02<05:07, 55.25it/s]

31%		7493/24500 [02:02<05:19, 53.18it/s]
31%		7499/24500 [02:03<05:11, 54.65it/s]
31%		7507/24500 [02:03<04:43, 60.02it/s]
31%		7514/24500 [02:03<04:54, 57.59it/s]
31%		7520/24500 [02:03<05:20, 52.97it/s]
31%		7528/24500 [02:03<04:48, 58.85it/s]
31%		7535/24500 [02:03<04:34, 61.75it/s]
31%		7544/24500 [02:03<04:08, 68.15it/s]
31%		7552/24500 [02:03<04:42, 60.07it/s]
31%		7559/24500 [02:03<04:44, 59.52it/s]
31%		7567/24500 [02:04<04:25, 63.90it/s]
31%		7575/24500 [02:04<04:13, 66.89it/s]
31%		7584/24500 [02:04<03:55, 71.86it/s]
31%		7592/24500 [02:04<04:13, 66.62it/s]
31%		7599/24500 [02:04<04:13, 66.54it/s]
31%		7608/24500 [02:04<04:01, 69.83it/s]
31%		7616/24500 [02:04<04:05, 68.78it/s]
31%		7624/24500 [02:04<04:17, 65.51it/s]
31%		7631/24500 [02:05<04:37, 60.83it/s]
31%		7638/24500 [02:05<04:33, 61.71it/s]
31%		7645/24500 [02:05<04:40, 60.00it/s]
31%		7652/24500 [02:05<04:34, 61.33it/s]
31%		7659/24500 [02:05<04:48, 58.35it/s]
31%		7666/24500 [02:05<04:40, 59.96it/s]
31%		7674/24500 [02:05<04:26, 63.04it/s]
31%		7682/24500 [02:05<04:15, 65.71it/s]
31%		7690/24500 [02:05<04:04, 68.77it/s]
31%		7697/24500 [02:06<04:35, 61.06it/s]

31%	7704/24500 [02:06<04:32, 61.54it/s]
31%	7712/24500 [02:06<04:15, 65.68it/s]
32%	7719/24500 [02:06<04:20, 64.39it/s]
32%	7726/24500 [02:06<04:25, 63.08it/s]
32%	7733/24500 [02:06<04:51, 57.53it/s]
32%	7739/24500 [02:06<04:56, 56.49it/s]
32%	7745/24500 [02:06<04:53, 57.01it/s]
32%	7753/24500 [02:07<04:29, 62.21it/s]
32%	7760/24500 [02:07<04:54, 56.82it/s]
32%	7767/24500 [02:07<04:45, 58.58it/s]
32%	7775/24500 [02:07<04:32, 61.31it/s]
32%	7782/24500 [02:07<04:39, 59.75it/s]
32%	7789/24500 [02:07<04:38, 59.94it/s]
32%	7798/24500 [02:07<04:15, 65.31it/s]
32%	7805/24500 [02:07<04:18, 64.56it/s]
32%	7815/24500 [02:07<03:57, 70.14it/s]
32%	7823/24500 [02:08<04:45, 58.45it/s]
32%	7830/24500 [02:08<04:40, 59.35it/s]
32%	7837/24500 [02:08<04:44, 58.50it/s]
32%	7844/24500 [02:08<05:16, 52.70it/s]
32%	7851/24500 [02:08<04:58, 55.73it/s]
32%	7859/24500 [02:08<04:36, 60.11it/s]
32%	7869/24500 [02:08<04:07, 67.08it/s]
32%	7877/24500 [02:09<04:11, 66.18it/s]
32%	7884/24500 [02:09<04:47, 57.70it/s]
32%	7891/24500 [02:09<04:37, 59.92it/s]
32%	7898/24500 [02:09<04:35, 60.31it/s]

32%		7905/24500 [02:09<04:41, 58.85it/s]
32%		7912/24500 [02:09<04:35, 60.19it/s]
32%		7919/24500 [02:09<04:26, 62.16it/s]
32%		7926/24500 [02:09<04:42, 58.60it/s]
32%		7932/24500 [02:09<04:51, 56.82it/s]
32%		7940/24500 [02:10<04:30, 61.13it/s]
32%		7947/24500 [02:10<04:37, 59.72it/s]
32%		7955/24500 [02:10<04:22, 63.03it/s]
32%		7962/24500 [02:10<04:46, 57.71it/s]
33%		7970/24500 [02:10<04:25, 62.36it/s]
33%		7977/24500 [02:10<04:16, 64.41it/s]
33%		7985/24500 [02:10<04:13, 65.02it/s]
33%		7992/24500 [02:10<04:36, 59.72it/s]
33%		8001/24500 [02:11<04:11, 65.50it/s]
33%		8008/24500 [02:11<04:28, 61.53it/s]
33%		8015/24500 [02:11<04:59, 55.01it/s]
33%		8023/24500 [02:11<04:36, 59.65it/s]
33%		8030/24500 [02:11<04:49, 56.85it/s]
33%		8036/24500 [02:11<04:46, 57.55it/s]
33%		8042/24500 [02:11<04:51, 56.50it/s]
33%		8048/24500 [02:11<05:08, 53.41it/s]
33%		8054/24500 [02:12<05:24, 50.66it/s]
33%		8061/24500 [02:12<05:14, 52.31it/s]
33%		8069/24500 [02:12<04:54, 55.84it/s]
33%		8075/24500 [02:12<05:07, 53.42it/s]
33%		8081/24500 [02:12<05:12, 52.53it/s]
33%		8089/24500 [02:12<04:44, 57.59it/s]
33%		8095/24500 [02:12<04:46, 57.17it/s]

33%		8102/24500 [02:12<04:42, 57.99it/s]
33%		8108/24500 [02:12<04:43, 57.78it/s]
33%		8117/24500 [02:13<04:18, 63.27it/s]
33%		8124/24500 [02:13<04:34, 59.75it/s]
33%		8131/24500 [02:13<05:03, 53.85it/s]
33%		8137/24500 [02:13<04:57, 55.03it/s]
33%		8143/24500 [02:13<04:55, 55.40it/s]
33%		8152/24500 [02:13<04:31, 60.22it/s]
33%		8159/24500 [02:13<04:39, 58.51it/s]
33%		8166/24500 [02:13<04:48, 56.58it/s]
33%		8173/24500 [02:14<04:32, 59.97it/s]
33%		8182/24500 [02:14<04:15, 63.87it/s]
33%		8189/24500 [02:14<04:09, 65.34it/s]
33%		8196/24500 [02:14<04:15, 63.81it/s]
33%		8203/24500 [02:14<04:09, 65.41it/s]
34%		8210/24500 [02:14<04:15, 63.76it/s]
34%		8217/24500 [02:14<04:16, 63.51it/s]
34%		8224/24500 [02:14<04:15, 63.77it/s]
34%		8231/24500 [02:14<04:43, 57.30it/s]
34%		8239/24500 [02:15<04:21, 62.23it/s]
34%		8246/24500 [02:15<04:21, 62.27it/s]
34%		8255/24500 [02:15<04:01, 67.23it/s]
34%		8262/24500 [02:15<04:06, 65.88it/s]
34%		8269/24500 [02:15<04:22, 61.72it/s]
34%		8280/24500 [02:15<03:52, 69.76it/s]
34%		8288/24500 [02:15<03:55, 68.79it/s]
34%		8296/24500 [02:15<03:57, 68.16it/s]

34% ███████████	8304/24500 [02:16<04:07, 65.54it/s]
34% ███████████	8311/24500 [02:16<04:58, 54.19it/s]
34% ███████████	8320/24500 [02:16<04:24, 61.07it/s]
34% ███████████	8329/24500 [02:16<04:05, 65.86it/s]
34% ███████████	8337/24500 [02:16<04:30, 59.66it/s]
34% ███████████	8344/24500 [02:16<04:26, 60.72it/s]
34% ███████████	8351/24500 [02:16<04:18, 62.52it/s]
34% ███████████	8359/24500 [02:16<04:03, 66.20it/s]
34% ███████████	8366/24500 [02:17<04:36, 58.43it/s]
34% ███████████	8373/24500 [02:17<04:32, 59.13it/s]
34% ███████████	8381/24500 [02:17<04:11, 64.14it/s]
34% ███████████	8388/24500 [02:17<04:07, 65.07it/s]
34% ███████████	8395/24500 [02:17<04:13, 63.56it/s]
34% ███████████	8402/24500 [02:17<04:19, 61.92it/s]
34% ███████████	8410/24500 [02:17<04:08, 64.80it/s]
34% ███████████	8419/24500 [02:17<03:54, 68.54it/s]
34% ███████████	8426/24500 [02:17<04:14, 63.25it/s]
34% ███████████	8433/24500 [02:18<04:20, 61.72it/s]
34% ███████████	8440/24500 [02:18<04:25, 60.46it/s]
34% ███████████	8447/24500 [02:18<04:29, 59.55it/s]
35% ███████████	8454/24500 [02:18<04:44, 56.41it/s]
35% ███████████	8460/24500 [02:18<04:42, 56.75it/s]
35% ███████████	8466/24500 [02:18<05:05, 52.51it/s]
35% ███████████	8473/24500 [02:18<04:49, 55.33it/s]
35% ███████████	8480/24500 [02:18<04:43, 56.46it/s]
35% ███████████	8487/24500 [02:19<04:30, 59.16it/s]
35% ███████████	8494/24500 [02:19<04:46, 55.96it/s]
35% ███████████	8502/24500 [02:19<04:20, 61.40it/s]

35%|███████████

| 8509/24500 [02:19<04:16, 62.44it/s]

35%|███████████

| 8517/24500 [02:19<03:59, 66.72it/s]

35%|███████████

| 8524/24500 [02:19<04:23, 60.69it/s]

35%|███████████

| 8532/24500 [02:19<04:04, 65.31it/s]

35%|███████████

| 8539/24500 [02:19<04:50, 54.95it/s]

35%|███████████

| 8546/24500 [02:20<04:36, 57.76it/s]

35%|███████████

| 8553/24500 [02:20<04:31, 58.71it/s]

35%|███████████

| 8562/24500 [02:20<04:11, 63.44it/s]

35%|███████████

| 8569/24500 [02:20<04:05, 65.02it/s]

35%|███████████

| 8576/24500 [02:20<04:14, 62.57it/s]

35%|███████████

| 8583/24500 [02:20<04:17, 61.73it/s]

35%|███████████

| 8590/24500 [02:20<04:31, 58.57it/s]

35%|███████████

| 8598/24500 [02:20<04:15, 62.21it/s]

35%|███████████

| 8606/24500 [02:20<04:02, 65.65it/s]

35%|███████████

| 8613/24500 [02:21<04:31, 58.54it/s]

35%|███████████

| 8620/24500 [02:21<05:22, 49.18it/s]

35%|███████████

| 8626/24500 [02:21<05:34, 47.47it/s]

35%|███████████

| 8633/24500 [02:21<05:03, 52.34it/s]

35%|███████████

| 8640/24500 [02:21<04:48, 55.06it/s]

35%|███████████

| 8646/24500 [02:21<04:53, 54.06it/s]

35%|███████████

| 8653/24500 [02:21<04:34, 57.63it/s]

35%|███████████

| 8660/24500 [02:21<04:28, 59.06it/s]

35%|███████████

| 8667/24500 [02:22<04:17, 61.43it/s]

35%|███████████

| 8675/24500 [02:22<04:03, 65.11it/s]

35%|███████████

| 8682/24500 [02:22<04:18, 61.12it/s]

35%|███████████

| 8691/24500 [02:22<03:56, 66.92it/s]

36%|███████████

| 8698/24500 [02:22<03:59, 65.95it/s]

36% ███████████	8705/24500 [02:22<04:20, 60.56it/s]
36% ███████████	8713/24500 [02:22<04:10, 63.05it/s]
36% ███████████	8720/24500 [02:22<04:39, 56.55it/s]
36% ███████████	8726/24500 [02:23<05:06, 51.39it/s]
36% ███████████	8732/24500 [02:23<05:01, 52.34it/s]
36% ███████████	8738/24500 [02:23<04:52, 53.96it/s]
36% ███████████	8744/24500 [02:23<04:50, 54.17it/s]
36% ███████████	8750/24500 [02:23<04:44, 55.37it/s]
36% ███████████	8756/24500 [02:23<04:38, 56.44it/s]
36% ███████████	8762/24500 [02:23<04:33, 57.44it/s]
36% ███████████	8769/24500 [02:23<04:29, 58.33it/s]
36% ███████████	8775/24500 [02:23<05:09, 50.73it/s]
36% ███████████	8781/24500 [02:24<05:23, 48.56it/s]
36% ███████████	8787/24500 [02:24<05:23, 48.51it/s]
36% ███████████	8795/24500 [02:24<04:48, 54.42it/s]
36% ███████████	8802/24500 [02:24<04:29, 58.21it/s]
36% ███████████	8809/24500 [02:24<04:22, 59.75it/s]
36% ███████████	8816/24500 [02:24<04:13, 61.79it/s]
36% ███████████	8823/24500 [02:24<04:15, 61.35it/s]
36% ███████████	8831/24500 [02:24<04:17, 60.88it/s]
36% ███████████	8839/24500 [02:24<04:02, 64.58it/s]
36% ███████████	8846/24500 [02:25<04:20, 60.12it/s]
36% ███████████	8853/24500 [02:25<04:28, 58.29it/s]
36% ███████████	8860/24500 [02:25<04:18, 60.42it/s]
36% ███████████	8869/24500 [02:25<03:55, 66.39it/s]
36% ███████████	8876/24500 [02:25<04:04, 63.79it/s]
36% ███████████	8888/24500 [02:25<03:30, 74.21it/s]
36% ███████████	8897/24500 [02:25<03:54, 66.47it/s]

36% ███████████	8905/24500 [02:25<04:07, 63.10it/s]
36% ███████████	8912/24500 [02:26<04:03, 63.98it/s]
36% ███████████	8919/24500 [02:26<04:19, 59.95it/s]
36% ███████████	8926/24500 [02:26<04:19, 60.12it/s]
36% ███████████	8933/24500 [02:26<04:48, 54.05it/s]
36% ███████████	8939/24500 [02:26<04:39, 55.70it/s]
37% ███████████	8945/24500 [02:26<05:20, 48.58it/s]
37% ███████████	8953/24500 [02:26<04:59, 51.85it/s]
37% ███████████	8959/24500 [02:27<05:03, 51.28it/s]
37% ███████████	8965/24500 [02:27<04:52, 53.08it/s]
37% ███████████	8971/24500 [02:27<04:57, 52.18it/s]
37% ███████████	8979/24500 [02:27<04:32, 56.99it/s]
37% ███████████	8986/24500 [02:27<04:20, 59.61it/s]
37% ███████████	8994/24500 [02:27<04:00, 64.43it/s]
37% ███████████	9001/24500 [02:27<04:08, 62.34it/s]
37% ███████████	9008/24500 [02:27<04:20, 59.52it/s]
37% ███████████	9015/24500 [02:27<04:37, 55.80it/s]
37% ███████████	9024/24500 [02:28<04:09, 62.14it/s]
37% ███████████	9031/24500 [02:28<04:03, 63.63it/s]
37% ███████████	9038/24500 [02:28<04:29, 57.41it/s]
37% ███████████	9045/24500 [02:28<04:29, 57.30it/s]
37% ███████████	9053/24500 [02:28<04:09, 61.95it/s]
37% ███████████	9060/24500 [02:28<04:25, 58.22it/s]
37% ███████████	9067/24500 [02:28<04:14, 60.71it/s]
37% ███████████	9074/24500 [02:28<04:09, 61.77it/s]
37% ███████████	9081/24500 [02:29<04:25, 58.18it/s]
37% ███████████	9088/24500 [02:29<04:17, 59.92it/s]

37% ███████████	9098/24500 [02:29<03:54, 65.69it/s]
37% ███████████	9105/24500 [02:29<04:34, 55.99it/s]
37% ███████████	9112/24500 [02:29<04:49, 53.08it/s]
37% ███████████	9119/24500 [02:29<04:35, 55.87it/s]
37% ███████████	9125/24500 [02:29<04:51, 52.74it/s]
37% ███████████	9131/24500 [02:29<05:00, 51.17it/s]
37% ███████████	9139/24500 [02:30<04:36, 55.50it/s]
37% ███████████	9146/24500 [02:30<04:22, 58.52it/s]
37% ███████████	9153/24500 [02:30<04:13, 60.64it/s]
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37% ███████████	9168/24500 [02:30<04:17, 59.48it/s]
37% ███████████	9175/24500 [02:30<04:29, 56.83it/s]
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37% ███████████	9187/24500 [02:30<04:39, 54.81it/s]
38% ███████████	9193/24500 [02:30<04:43, 54.07it/s]
38% ███████████	9200/24500 [02:31<04:30, 56.64it/s]
38% ███████████	9208/24500 [02:31<04:09, 61.22it/s]
38% ███████████	9216/24500 [02:31<03:54, 65.29it/s]
38% ███████████	9223/24500 [02:31<03:49, 66.62it/s]
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38% ███████████	9265/24500 [02:32<04:40, 54.29it/s]
38% ███████████	9272/24500 [02:32<04:24, 57.62it/s]
38% ███████████	9278/24500 [02:32<04:33, 55.74it/s]
38% ███████████	9284/24500 [02:32<04:37, 54.84it/s]

38%	9290/24500 [02:32<04:42, 53.76it/s]
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38%	9304/24500 [02:32<04:25, 57.16it/s]
38%	9310/24500 [02:32<04:30, 56.26it/s]
38%	9316/24500 [02:33<05:13, 48.51it/s]
38%	9323/24500 [02:33<04:45, 53.15it/s]
38%	9329/24500 [02:33<04:49, 52.35it/s]
38%	9336/24500 [02:33<04:52, 51.89it/s]
38%	9345/24500 [02:33<04:19, 58.32it/s]
38%	9352/24500 [02:33<04:28, 56.40it/s]
38%	9359/24500 [02:33<04:19, 58.29it/s]
38%	9366/24500 [02:33<04:18, 58.64it/s]
38%	9373/24500 [02:34<04:32, 55.54it/s]
38%	9383/24500 [02:34<03:59, 63.10it/s]
38%	9390/24500 [02:34<03:52, 64.97it/s]
38%	9397/24500 [02:34<04:13, 59.60it/s]
38%	9404/24500 [02:34<04:33, 55.19it/s]
38%	9415/24500 [02:34<04:01, 62.57it/s]
38%	9426/24500 [02:34<03:32, 71.01it/s]
39%	9434/24500 [02:34<03:41, 67.92it/s]
39%	9442/24500 [02:35<04:05, 61.34it/s]
39%	9449/24500 [02:35<04:11, 59.88it/s]
39%	9456/24500 [02:35<04:10, 60.07it/s]
39%	9463/24500 [02:35<04:08, 60.60it/s]
39%	9470/24500 [02:35<04:00, 62.43it/s]
39%	9477/24500 [02:35<04:30, 55.59it/s]
39%	9486/24500 [02:35<04:04, 61.42it/s]

39%	[REDACTED]	9493/24500 [02:35<04:26, 56.29it/s]
39%	[REDACTED]	9499/24500 [02:36<04:54, 50.98it/s]
39%	[REDACTED]	9505/24500 [02:36<04:45, 52.48it/s]
39%	[REDACTED]	9513/24500 [02:36<04:25, 56.48it/s]
39%	[REDACTED]	9519/24500 [02:36<04:28, 55.90it/s]
39%	[REDACTED]	9525/24500 [02:36<04:25, 56.51it/s]
39%	[REDACTED]	9531/24500 [02:36<04:25, 56.47it/s]
39%	[REDACTED]	9538/24500 [02:36<04:15, 58.46it/s]
39%	[REDACTED]	9545/24500 [02:36<04:09, 59.90it/s]
39%	[REDACTED]	9552/24500 [02:37<04:07, 60.32it/s]
39%	[REDACTED]	9559/24500 [02:37<04:13, 58.99it/s]
39%	[REDACTED]	9565/24500 [02:37<04:48, 51.81it/s]
39%	[REDACTED]	9571/24500 [02:37<04:48, 51.69it/s]
39%	[REDACTED]	9577/24500 [02:37<04:44, 52.42it/s]
39%	[REDACTED]	9583/24500 [02:37<04:42, 52.80it/s]
39%	[REDACTED]	9589/24500 [02:37<05:08, 48.34it/s]
39%	[REDACTED]	9598/24500 [02:37<04:34, 54.24it/s]
39%	[REDACTED]	9607/24500 [02:37<04:09, 59.72it/s]
39%	[REDACTED]	9614/24500 [02:38<04:15, 58.23it/s]
39%	[REDACTED]	9621/24500 [02:38<04:20, 57.03it/s]
39%	[REDACTED]	9627/24500 [02:38<04:52, 50.88it/s]
39%	[REDACTED]	9633/24500 [02:38<04:43, 52.51it/s]
39%	[REDACTED]	9640/24500 [02:38<04:27, 55.59it/s]
39%	[REDACTED]	9646/24500 [02:38<04:38, 53.33it/s]
39%	[REDACTED]	9652/24500 [02:38<04:42, 52.53it/s]
39%	[REDACTED]	9658/24500 [02:39<05:39, 43.71it/s]
39%	[REDACTED]	9663/24500 [02:39<05:35, 44.26it/s]
39%	[REDACTED]	9672/24500 [02:39<04:45, 51.86it/s]

40%	9678/24500 [02:39<04:38, 53.22it/s]
40%	9684/24500 [02:39<04:36, 53.57it/s]
40%	9690/24500 [02:39<04:52, 50.57it/s]
40%	9697/24500 [02:39<04:34, 53.94it/s]
40%	9705/24500 [02:39<04:10, 58.99it/s]
40%	9712/24500 [02:39<04:26, 55.50it/s]
40%	9718/24500 [02:40<04:32, 54.22it/s]
40%	9725/24500 [02:40<04:26, 55.46it/s]
40%	9731/24500 [02:40<04:28, 55.08it/s]
40%	9737/24500 [02:40<04:56, 49.84it/s]
40%	9743/24500 [02:40<04:43, 52.13it/s]
40%	9752/24500 [02:40<04:12, 58.42it/s]
40%	9759/24500 [02:40<04:11, 58.59it/s]
40%	9766/24500 [02:40<04:07, 59.45it/s]
40%	9773/24500 [02:41<04:07, 59.61it/s]
40%	9781/24500 [02:41<03:52, 63.21it/s]
40%	9788/24500 [02:41<04:18, 56.90it/s]
40%	9794/24500 [02:41<04:28, 54.67it/s]
40%	9800/24500 [02:41<05:16, 46.42it/s]
40%	9805/24500 [02:41<05:32, 44.25it/s]
40%	9812/24500 [02:41<04:57, 49.36it/s]
40%	9822/24500 [02:41<04:19, 56.61it/s]
40%	9829/24500 [02:42<04:19, 56.57it/s]
40%	9836/24500 [02:42<04:46, 51.27it/s]
40%	9842/24500 [02:42<04:40, 52.35it/s]
40%	9848/24500 [02:42<04:30, 54.10it/s]
40%	9854/24500 [02:42<04:23, 55.55it/s]

40%		9860/24500 [02:42<04:20, 56.22it/s]
40%		9866/24500 [02:42<04:44, 51.46it/s]
40%		9872/24500 [02:42<04:46, 51.05it/s]
40%		9881/24500 [02:43<04:28, 54.45it/s]
40%		9888/24500 [02:43<04:15, 57.10it/s]
40%		9896/24500 [02:43<03:57, 61.60it/s]
40%		9903/24500 [02:43<04:09, 58.48it/s]
40%		9910/24500 [02:43<04:01, 60.52it/s]
40%		9918/24500 [02:43<03:43, 65.26it/s]
41%		9925/24500 [02:43<04:03, 59.82it/s]
41%		9934/24500 [02:43<03:40, 65.95it/s]
41%		9941/24500 [02:43<03:40, 65.93it/s]
41%		9948/24500 [02:44<03:43, 65.24it/s]
41%		9955/24500 [02:44<04:25, 54.75it/s]
41%		9961/24500 [02:44<04:38, 52.17it/s]
41%		9967/24500 [02:44<04:57, 48.90it/s]
41%		9974/24500 [02:44<04:32, 53.24it/s]
41%		9980/24500 [02:44<04:27, 54.25it/s]
41%		9988/24500 [02:44<04:03, 59.68it/s]
41%		9996/24500 [02:44<03:46, 64.02it/s]
41%		10003/24500 [02:45<03:45, 64.31it/s]
41%		10010/24500 [02:45<04:09, 58.10it/s]
41%		10017/24500 [02:45<04:11, 57.64it/s]
41%		10024/24500 [02:45<03:59, 60.44it/s]
41%		10031/24500 [02:45<03:53, 62.06it/s]
41%		10038/24500 [02:45<04:07, 58.36it/s]
41%		10046/24500 [02:45<03:47, 63.40it/s]
41%		10053/24500 [02:45<03:46, 63.70it/s]

41%	10061/24500 [02:45<03:35, 67.04it/s]
41%	10070/24500 [02:46<03:20, 71.95it/s]
41%	10078/24500 [02:46<03:49, 62.71it/s]
41%	10086/24500 [02:46<03:35, 67.03it/s]
41%	10094/24500 [02:46<03:27, 69.42it/s]
41%	10102/24500 [02:46<03:23, 70.61it/s]
41%	10110/24500 [02:46<03:42, 64.81it/s]
41%	10117/24500 [02:46<03:51, 62.06it/s]
41%	10124/24500 [02:46<04:05, 58.44it/s]
41%	10131/24500 [02:47<03:59, 59.92it/s]
41%	10138/24500 [02:47<04:24, 54.33it/s]
41%	10144/24500 [02:47<04:48, 49.71it/s]
41%	10152/24500 [02:47<04:21, 54.95it/s]
41%	10158/24500 [02:47<04:19, 55.18it/s]
41%	10164/24500 [02:47<05:04, 47.03it/s]
42%	10172/24500 [02:47<04:30, 52.95it/s]
42%	10181/24500 [02:47<03:58, 59.96it/s]
42%	10188/24500 [02:48<03:50, 62.20it/s]
42%	10195/24500 [02:48<03:58, 60.00it/s]
42%	10202/24500 [02:48<03:54, 61.07it/s]
42%	10209/24500 [02:48<03:57, 60.20it/s]
42%	10216/24500 [02:48<03:55, 60.62it/s]
42%	10223/24500 [02:48<03:49, 62.12it/s]
42%	10230/24500 [02:48<04:25, 53.67it/s]
42%	10240/24500 [02:48<03:52, 61.35it/s]
42%	10247/24500 [02:49<03:52, 61.42it/s]
42%	10256/24500 [02:49<03:37, 65.50it/s]

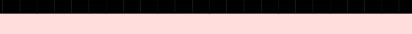
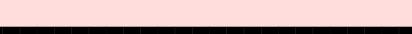
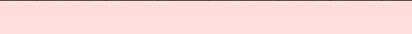
42%	10263/24500 [02:49<03:53, 61.07it/s]
42%	10270/24500 [02:49<04:02, 58.61it/s]
42%	10277/24500 [02:49<03:58, 59.62it/s]
42%	10284/24500 [02:49<04:07, 57.39it/s]
42%	10291/24500 [02:49<04:02, 58.58it/s]
42%	10298/24500 [02:49<03:51, 61.31it/s]
42%	10305/24500 [02:49<03:43, 63.56it/s]
42%	10312/24500 [02:50<03:37, 65.23it/s]
42%	10322/24500 [02:50<03:20, 70.86it/s]
42%	10330/24500 [02:50<03:28, 68.10it/s]
42%	10337/24500 [02:50<03:34, 65.97it/s]
42%	10345/24500 [02:50<03:25, 68.93it/s]
42%	10353/24500 [02:50<03:35, 65.56it/s]
42%	10360/24500 [02:50<04:32, 51.97it/s]
42%	10369/24500 [02:50<04:06, 57.26it/s]
42%	10376/24500 [02:51<03:59, 58.99it/s]
42%	10384/24500 [02:51<03:58, 59.06it/s]
42%	10391/24500 [02:51<04:06, 57.16it/s]
42%	10400/24500 [02:51<03:42, 63.38it/s]
42%	10407/24500 [02:51<03:46, 62.19it/s]
43%	10414/24500 [02:51<03:47, 61.96it/s]
43%	10422/24500 [02:51<03:40, 63.94it/s]
43%	10430/24500 [02:51<03:26, 68.00it/s]
43%	10437/24500 [02:52<03:43, 63.05it/s]
43%	10444/24500 [02:52<03:36, 64.95it/s]
43%	10451/24500 [02:52<04:16, 54.88it/s]
43%	10458/24500 [02:52<04:00, 58.28it/s]
43%	10466/24500 [02:52<03:45, 62.20it/s]

43%	10473/24500 [02:52<03:43, 62.63it/s]
43%	10480/24500 [02:52<04:00, 58.42it/s]
43%	10491/24500 [02:52<03:26, 67.89it/s]
43%	10499/24500 [02:53<03:31, 66.20it/s]
43%	10508/24500 [02:53<03:16, 71.10it/s]
43%	10516/24500 [02:53<03:24, 68.49it/s]
43%	10524/24500 [02:53<03:46, 61.76it/s]
43%	10531/24500 [02:53<03:41, 62.99it/s]
43%	10538/24500 [02:53<03:41, 63.02it/s]
43%	10545/24500 [02:53<03:49, 60.87it/s]
43%	10552/24500 [02:53<03:58, 58.59it/s]
43%	10561/24500 [02:53<03:37, 64.02it/s]
43%	10568/24500 [02:54<03:35, 64.69it/s]
43%	10577/24500 [02:54<03:22, 68.91it/s]
43%	10585/24500 [02:54<03:39, 63.42it/s]
43%	10593/24500 [02:54<03:31, 65.90it/s]
43%	10601/24500 [02:54<03:29, 66.34it/s]
43%	10608/24500 [02:54<03:41, 62.75it/s]
43%	10615/24500 [02:54<03:44, 61.87it/s]
43%	10622/24500 [02:54<03:44, 61.70it/s]
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43%	10636/24500 [02:55<04:06, 56.15it/s]
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43%	10651/24500 [02:55<04:10, 55.22it/s]
43%	10657/24500 [02:55<04:21, 52.98it/s]
44%	10665/24500 [02:55<03:55, 58.67it/s]
44%	10673/24500 [02:55<03:41, 62.30it/s]

44%		10682/24500 [02:55<03:25, 67.08it/s]
44%		10690/24500 [02:56<03:46, 60.85it/s]
44%		10699/24500 [02:56<03:29, 65.86it/s]
44%		10706/24500 [02:56<03:33, 64.69it/s]
44%		10713/24500 [02:56<03:46, 60.74it/s]
44%		10720/24500 [02:56<03:53, 59.14it/s]
44%		10727/24500 [02:56<03:57, 57.92it/s]
44%		10733/24500 [02:56<04:34, 50.21it/s]
44%		10740/24500 [02:56<04:23, 52.21it/s]
44%		10746/24500 [02:57<04:21, 52.51it/s]
44%		10752/24500 [02:57<04:15, 53.77it/s]
44%		10762/24500 [02:57<03:40, 62.37it/s]
44%		10769/24500 [02:57<03:56, 58.08it/s]
44%		10776/24500 [02:57<04:17, 53.33it/s]
44%		10785/24500 [02:57<03:56, 57.99it/s]
44%		10792/24500 [02:57<03:47, 60.16it/s]
44%		10800/24500 [02:57<03:32, 64.36it/s]
44%		10807/24500 [02:58<04:06, 55.58it/s]
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44%		10821/24500 [02:58<03:51, 59.05it/s]
44%		10828/24500 [02:58<03:44, 61.01it/s]
44%		10835/24500 [02:58<03:52, 58.66it/s]
44%		10842/24500 [02:58<03:53, 58.57it/s]
44%		10849/24500 [02:58<03:49, 59.37it/s]
44%		10858/24500 [02:58<03:33, 63.88it/s]
44%		10865/24500 [02:59<04:08, 54.79it/s]
44%		10877/24500 [02:59<03:29, 64.88it/s]
44%		10885/24500 [02:59<03:22, 67.34it/s]

44%		10893/24500 [02:59<03:30, 64.53it/s]
44%		10902/24500 [02:59<03:12, 70.51it/s]
45%		10910/24500 [02:59<03:23, 66.80it/s]
45%		10918/24500 [02:59<03:33, 63.63it/s]
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45%		10939/24500 [03:00<03:37, 62.46it/s]
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45%		10960/24500 [03:00<04:14, 53.15it/s]
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45%		11002/24500 [03:01<03:43, 60.28it/s]
45%		11009/24500 [03:01<04:03, 55.39it/s]
45%		11016/24500 [03:01<03:50, 58.58it/s]
45%		11023/24500 [03:01<03:42, 60.59it/s]
45%		11030/24500 [03:01<03:35, 62.51it/s]
45%		11037/24500 [03:01<03:51, 58.26it/s]
45%		11043/24500 [03:01<04:27, 50.32it/s]
45%		11053/24500 [03:02<03:55, 57.14it/s]
45%		11061/24500 [03:02<03:42, 60.47it/s]
45%		11069/24500 [03:02<03:28, 64.32it/s]
45%		11077/24500 [03:02<03:23, 66.01it/s]
45%		11084/24500 [03:02<03:48, 58.77it/s]

45%		11091/24500 [03:02<04:03, 54.96it/s]
45%		11097/24500 [03:02<04:31, 49.42it/s]
45%		11104/24500 [03:02<04:07, 54.20it/s]
45%		11110/24500 [03:03<03:59, 55.81it/s]
45%		11116/24500 [03:03<04:08, 53.91it/s]
45%		11122/24500 [03:03<04:27, 50.07it/s]
45%		11129/24500 [03:03<04:06, 54.21it/s]
45%		11136/24500 [03:03<03:53, 57.16it/s]
45%		11142/24500 [03:03<03:50, 57.97it/s]
46%		11148/24500 [03:03<04:02, 54.95it/s]
46%		11156/24500 [03:03<03:43, 59.77it/s]
46%		11167/24500 [03:03<03:16, 67.98it/s]
46%		11175/24500 [03:04<03:17, 67.56it/s]
46%		11183/24500 [03:04<03:15, 68.04it/s]
46%		11191/24500 [03:04<03:33, 62.24it/s]
46%		11198/24500 [03:04<03:38, 60.91it/s]
46%		11205/24500 [03:04<03:31, 62.91it/s]
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46%		11218/24500 [03:04<04:10, 53.08it/s]
46%		11226/24500 [03:04<03:48, 58.17it/s]
46%		11233/24500 [03:05<03:38, 60.75it/s]
46%		11240/24500 [03:05<03:42, 59.70it/s]
46%		11247/24500 [03:05<03:48, 58.09it/s]
46%		11254/24500 [03:05<03:38, 60.54it/s]
46%		11261/24500 [03:05<03:29, 63.06it/s]
46%		11268/24500 [03:05<03:54, 56.31it/s]
46%		11274/24500 [03:05<04:03, 54.24it/s]
46%		11282/24500 [03:05<03:45, 58.70it/s]

46%		11289/24500 [03:06<03:39, 60.15it/s]
46%		11296/24500 [03:06<03:49, 57.45it/s]
46%		11307/24500 [03:06<03:19, 65.97it/s]
46%		11315/24500 [03:06<03:34, 61.55it/s]
46%		11322/24500 [03:06<03:43, 59.09it/s]
46%		11329/24500 [03:06<03:44, 58.75it/s]
46%		11337/24500 [03:06<03:29, 62.96it/s]
46%		11344/24500 [03:06<03:35, 60.93it/s]
46%		11351/24500 [03:07<03:53, 56.30it/s]
46%		11357/24500 [03:07<04:29, 48.74it/s]
46%		11366/24500 [03:07<03:56, 55.62it/s]
46%		11376/24500 [03:07<03:33, 61.33it/s]
46%		11383/24500 [03:07<03:48, 57.44it/s]
46%		11390/24500 [03:07<03:35, 60.70it/s]
47%		11397/24500 [03:07<03:36, 60.55it/s]
47%		11404/24500 [03:07<03:35, 60.85it/s]
47%		11413/24500 [03:08<03:25, 63.65it/s]
47%		11420/24500 [03:08<03:31, 61.97it/s]
47%		11427/24500 [03:08<03:23, 64.14it/s]
47%		11434/24500 [03:08<03:32, 61.61it/s]
47%		11443/24500 [03:08<03:16, 66.54it/s]
47%		11450/24500 [03:08<03:48, 56.99it/s]
47%		11457/24500 [03:08<03:42, 58.60it/s]
47%		11464/24500 [03:08<03:37, 60.02it/s]
47%		11471/24500 [03:08<03:41, 58.83it/s]
47%		11478/24500 [03:09<04:09, 52.18it/s]
47%		11484/24500 [03:09<04:00, 54.15it/s]
47%		11490/24500 [03:09<04:00, 52.62it/s]

47%		11490/24500 [03:09<04:07, 52.60it/s]
47%		11498/24500 [03:09<03:43, 58.28it/s]
47%		11505/24500 [03:09<03:58, 54.59it/s]
47%		11513/24500 [03:09<03:37, 59.84it/s]
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47%		11529/24500 [03:09<03:25, 63.18it/s]
47%		11536/24500 [03:10<03:34, 60.42it/s]
47%		11543/24500 [03:10<03:47, 56.96it/s]
47%		11549/24500 [03:10<03:47, 56.90it/s]
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47%		11563/24500 [03:10<03:29, 61.73it/s]
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47%		11577/24500 [03:10<03:36, 59.76it/s]
47%		11585/24500 [03:10<03:31, 61.16it/s]
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47%		11599/24500 [03:11<03:31, 60.87it/s]
47%		11607/24500 [03:11<03:20, 64.30it/s]
47%		11614/24500 [03:11<03:18, 64.87it/s]
47%		11621/24500 [03:11<03:44, 57.49it/s]
47%		11627/24500 [03:11<03:54, 54.98it/s]
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48%		11642/24500 [03:11<03:30, 60.99it/s]
48%		11649/24500 [03:11<03:39, 58.63it/s]
48%		11658/24500 [03:12<03:21, 63.60it/s]
48%		11665/24500 [03:12<03:36, 59.32it/s]
48%		11672/24500 [03:12<03:31, 60.60it/s]
48%		11679/24500 [03:12<03:33, 59.95it/s]
48%		11686/24500 [03:12<03:56, 54.13it/s]

48% ███████████	11692/24500 [03:12<03:54, 54.59it/s]
48% ███████████	11698/24500 [03:12<04:21, 48.95it/s]
48% ███████████	11707/24500 [03:12<03:48, 56.11it/s]
48% ███████████	11715/24500 [03:13<03:29, 61.10it/s]
48% ███████████	11722/24500 [03:13<03:24, 62.37it/s]
48% ███████████	11729/24500 [03:13<03:35, 59.22it/s]
48% ███████████	11736/24500 [03:13<03:43, 57.13it/s]
48% ███████████	11743/24500 [03:13<03:34, 59.58it/s]
48% ███████████	11751/24500 [03:13<03:18, 64.25it/s]
48% ███████████	11759/24500 [03:13<03:07, 67.98it/s]
48% ███████████	11767/24500 [03:13<02:59, 71.05it/s]
48% ███████████	11775/24500 [03:14<03:22, 62.85it/s]
48% ███████████	11785/24500 [03:14<03:01, 70.03it/s]
48% ███████████	11793/24500 [03:14<03:11, 66.47it/s]
48% ███████████	11801/24500 [03:14<03:10, 66.50it/s]
48% ███████████	11808/24500 [03:14<03:13, 65.59it/s]
48% ███████████	11815/24500 [03:14<03:11, 66.27it/s]
48% ███████████	11822/24500 [03:14<03:11, 66.04it/s]
48% ███████████	11830/24500 [03:14<03:11, 66.19it/s]
48% ███████████	11837/24500 [03:14<03:31, 59.84it/s]
48% ███████████	11845/24500 [03:15<03:21, 62.85it/s]
48% ███████████	11852/24500 [03:15<03:35, 58.81it/s]
48% ███████████	11859/24500 [03:15<03:26, 61.17it/s]
48% ███████████	11867/24500 [03:15<03:19, 63.36it/s]
48% ███████████	11874/24500 [03:15<03:50, 54.86it/s]
48% ███████████	11881/24500 [03:15<03:37, 57.98it/s]
49% ███████████	11890/24500 [03:15<03:24, 61.74it/s]
49% ███████████	11897/24500 [03:15<03:22, 60.57it/s]

49%	11897/24500 [03:15<03:28, 60.57it/s]
49%	11904/24500 [03:16<03:29, 60.22it/s]
49%	11911/24500 [03:16<03:23, 62.00it/s]
49%	11918/24500 [03:16<03:47, 55.32it/s]
49%	11925/24500 [03:16<03:33, 59.01it/s]
49%	11932/24500 [03:16<03:28, 60.29it/s]
49%	11939/24500 [03:16<04:03, 51.48it/s]
49%	11947/24500 [03:16<03:43, 56.24it/s]
49%	11953/24500 [03:16<03:48, 54.80it/s]
49%	11959/24500 [03:17<03:49, 54.75it/s]
49%	11965/24500 [03:17<03:51, 54.07it/s]
49%	11973/24500 [03:17<03:45, 55.44it/s]
49%	11979/24500 [03:17<03:49, 54.52it/s]
49%	11986/24500 [03:17<03:42, 56.17it/s]
49%	11992/24500 [03:17<03:40, 56.72it/s]
49%	11998/24500 [03:17<03:59, 52.19it/s]
49%	12004/24500 [03:17<04:02, 51.58it/s]
49%	12010/24500 [03:18<04:07, 50.46it/s]
49%	12016/24500 [03:18<04:13, 49.18it/s]
49%	12023/24500 [03:18<03:51, 53.81it/s]
49%	12030/24500 [03:18<03:36, 57.57it/s]
49%	12037/24500 [03:18<03:27, 59.92it/s]
49%	12044/24500 [03:18<03:47, 54.68it/s]
49%	12050/24500 [03:18<03:41, 56.14it/s]
49%	12056/24500 [03:18<03:41, 56.16it/s]
49%	12065/24500 [03:18<03:21, 61.78it/s]
49%	12073/24500 [03:19<03:13, 64.13it/s]
49%	12080/24500 [03:19<03:25, 60.46it/s]

49%	12087/24500 [03:19<03:22, 61.37it/s]
49%	12094/24500 [03:19<03:21, 61.43it/s]
49%	12101/24500 [03:19<03:40, 56.16it/s]
49%	12108/24500 [03:19<03:31, 58.71it/s]
49%	12117/24500 [03:19<03:14, 63.68it/s]
49%	12124/24500 [03:19<03:17, 62.60it/s]
50%	12131/24500 [03:20<03:16, 62.89it/s]
50%	12138/24500 [03:20<03:40, 56.04it/s]
50%	12144/24500 [03:20<03:57, 52.13it/s]
50%	12150/24500 [03:20<03:54, 52.59it/s]
50%	12156/24500 [03:20<04:17, 47.99it/s]
50%	12162/24500 [03:20<04:10, 49.33it/s]
50%	12169/24500 [03:20<03:48, 54.03it/s]
50%	12175/24500 [03:20<03:44, 54.89it/s]
50%	12182/24500 [03:20<03:32, 57.86it/s]
50%	12188/24500 [03:21<03:58, 51.60it/s]
50%	12194/24500 [03:21<03:49, 53.62it/s]
50%	12201/24500 [03:21<03:33, 57.56it/s]
50%	12209/24500 [03:21<03:20, 61.16it/s]
50%	12216/24500 [03:21<03:43, 54.88it/s]
50%	12222/24500 [03:21<03:43, 54.83it/s]
50%	12229/24500 [03:21<03:30, 58.38it/s]
50%	12238/24500 [03:21<03:09, 64.60it/s]
50%	12246/24500 [03:22<03:05, 66.23it/s]
50%	12253/24500 [03:22<03:19, 61.52it/s]
50%	12262/24500 [03:22<03:00, 67.70it/s]
50%	12270/24500 [03:22<03:06, 65.70it/s]
50%	12278/24500 [03:22<03:22, 67.01it/s]

50%	12278/24500 [03:22<03:02, 67.01it/s]
50%	12285/24500 [03:22<03:35, 56.68it/s]
50%	12293/24500 [03:22<03:19, 61.08it/s]
50%	12301/24500 [03:22<03:10, 64.07it/s]
50%	12312/24500 [03:23<02:49, 71.80it/s]
50%	12321/24500 [03:23<02:48, 72.13it/s]
50%	12329/24500 [03:23<03:05, 65.59it/s]
50%	12337/24500 [03:23<02:56, 68.85it/s]
50%	12345/24500 [03:23<02:55, 69.30it/s]
50%	12353/24500 [03:23<02:56, 68.90it/s]
50%	12361/24500 [03:23<02:52, 70.24it/s]
50%	12369/24500 [03:23<03:05, 65.46it/s]
51%	12376/24500 [03:23<03:10, 63.54it/s]
51%	12383/24500 [03:24<03:10, 63.68it/s]
51%	12390/24500 [03:24<03:21, 60.15it/s]
51%	12397/24500 [03:24<03:17, 61.25it/s]
51%	12404/24500 [03:24<03:13, 62.51it/s]
51%	12411/24500 [03:24<03:22, 59.66it/s]
51%	12418/24500 [03:24<04:20, 46.32it/s]
51%	12424/24500 [03:24<04:03, 49.69it/s]
51%	12433/24500 [03:24<03:31, 56.97it/s]
51%	12440/24500 [03:25<03:30, 57.36it/s]
51%	12447/24500 [03:25<03:32, 56.82it/s]
51%	12454/24500 [03:25<03:42, 54.09it/s]
51%	12460/24500 [03:25<03:42, 54.18it/s]
51%	12467/24500 [03:25<03:37, 55.38it/s]
51%	12475/24500 [03:25<03:19, 60.23it/s]
51%	12483/24500 [03:25<03:06, 64.37it/s]

51%	12490/24500 [03:25<03:12, 62.48it/s]
51%	12497/24500 [03:26<03:11, 62.81it/s]
51%	12504/24500 [03:26<03:10, 62.91it/s]
51%	12511/24500 [03:26<03:08, 63.60it/s]
51%	12518/24500 [03:26<03:19, 60.06it/s]
51%	12526/24500 [03:26<03:11, 62.38it/s]
51%	12533/24500 [03:26<03:14, 61.64it/s]
51%	12540/24500 [03:26<03:13, 61.78it/s]
51%	12548/24500 [03:26<03:05, 64.44it/s]
51%	12555/24500 [03:26<03:05, 64.25it/s]
51%	12562/24500 [03:27<03:34, 55.78it/s]
51%	12570/24500 [03:27<03:18, 60.19it/s]
51%	12577/24500 [03:27<03:20, 59.59it/s]
51%	12587/24500 [03:27<03:02, 65.25it/s]
51%	12594/24500 [03:27<02:59, 66.44it/s]
51%	12601/24500 [03:27<03:09, 62.82it/s]
51%	12608/24500 [03:27<03:03, 64.79it/s]
51%	12615/24500 [03:27<03:35, 55.23it/s]
52%	12621/24500 [03:28<03:38, 54.41it/s]
52%	12627/24500 [03:28<03:43, 53.09it/s]
52%	12635/24500 [03:28<03:23, 58.28it/s]
52%	12642/24500 [03:28<03:30, 56.23it/s]
52%	12649/24500 [03:28<03:26, 57.45it/s]
52%	12655/24500 [03:28<03:25, 57.60it/s]
52%	12661/24500 [03:28<03:44, 52.72it/s]
52%	12668/24500 [03:28<03:34, 55.10it/s]
52%	12674/24500 [03:29<03:39, 53.99it/s]
52%	12680/24500 [03:29<03:28, 54.11it/s]

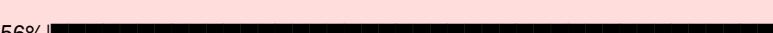
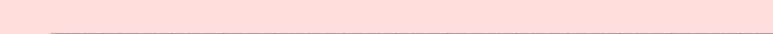
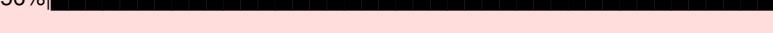
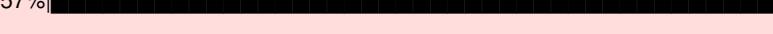
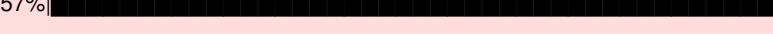
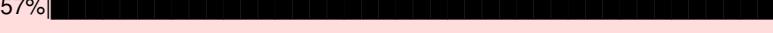
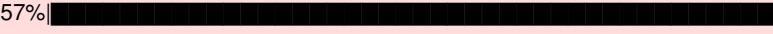
52%	12680/24500 [03:29<03:36, 54.11it/s]
52%	12696/24500 [03:29<03:14, 60.79it/s]
52%	12704/24500 [03:29<03:08, 62.63it/s]
52%	12711/24500 [03:29<03:26, 57.00it/s]
52%	12720/24500 [03:29<03:11, 61.46it/s]
52%	12727/24500 [03:29<03:06, 62.98it/s]
52%	12735/24500 [03:29<02:58, 65.99it/s]
52%	12742/24500 [03:30<03:12, 61.22it/s]
52%	12750/24500 [03:30<03:02, 64.46it/s]
52%	12758/24500 [03:30<02:57, 66.08it/s]
52%	12767/24500 [03:30<02:47, 69.96it/s]
52%	12776/24500 [03:30<02:42, 72.05it/s]
52%	12784/24500 [03:30<02:55, 66.88it/s]
52%	12791/24500 [03:30<02:59, 65.13it/s]
52%	12798/24500 [03:30<03:03, 63.61it/s]
52%	12805/24500 [03:31<03:20, 58.20it/s]
52%	12811/24500 [03:31<03:24, 57.16it/s]
52%	12817/24500 [03:31<03:37, 53.82it/s]
52%	12823/24500 [03:31<03:40, 52.85it/s]
52%	12829/24500 [03:31<03:33, 54.70it/s]
52%	12836/24500 [03:31<03:29, 55.63it/s]
52%	12842/24500 [03:31<03:38, 53.27it/s]
52%	12848/24500 [03:31<03:43, 52.18it/s]
52%	12857/24500 [03:31<03:17, 59.03it/s]
53%	12864/24500 [03:32<03:34, 54.33it/s]
53%	12871/24500 [03:32<03:22, 57.30it/s]
53%	12879/24500 [03:32<03:11, 60.68it/s]

53%	12886/24500 [03:32<03:28, 55.72it/s]
53%	12892/24500 [03:32<03:27, 55.87it/s]
53%	12900/24500 [03:32<03:17, 58.63it/s]
53%	12907/24500 [03:32<03:32, 54.50it/s]
53%	12918/24500 [03:33<03:03, 63.08it/s]
53%	12925/24500 [03:33<03:26, 56.15it/s]
53%	12932/24500 [03:33<03:31, 54.64it/s]
53%	12938/24500 [03:33<03:40, 52.44it/s]
53%	12946/24500 [03:33<03:23, 56.66it/s]
53%	12954/24500 [03:33<03:09, 60.86it/s]
53%	12961/24500 [03:33<03:24, 56.50it/s]
53%	12967/24500 [03:33<03:32, 54.28it/s]
53%	12974/24500 [03:34<03:20, 57.52it/s]
53%	12983/24500 [03:34<03:02, 63.19it/s]
53%	12990/24500 [03:34<03:18, 57.91it/s]
53%	12997/24500 [03:34<03:14, 59.26it/s]
53%	13005/24500 [03:34<03:01, 63.38it/s]
53%	13012/24500 [03:34<02:59, 64.04it/s]
53%	13019/24500 [03:34<03:04, 62.35it/s]
53%	13026/24500 [03:34<03:11, 59.81it/s]
53%	13033/24500 [03:34<03:12, 59.56it/s]
53%	13040/24500 [03:35<03:05, 61.89it/s]
53%	13048/24500 [03:35<02:57, 64.68it/s]
53%	13055/24500 [03:35<02:53, 65.95it/s]
53%	13062/24500 [03:35<02:57, 64.60it/s]
53%	13069/24500 [03:35<03:10, 59.94it/s]
53%	13076/24500 [03:35<03:03, 62.13it/s]
53%	13083/24500 [03:35<03:27, 55.07it/s]

53%		13083/24500 [03:35<03:42, 51.27it/s]
53%		13095/24500 [03:36<03:32, 53.61it/s]
53%		13103/24500 [03:36<03:15, 58.18it/s]
54%		13112/24500 [03:36<02:54, 65.08it/s]
54%		13119/24500 [03:36<02:53, 65.74it/s]
54%		13126/24500 [03:36<03:21, 56.33it/s]
54%		13133/24500 [03:36<03:16, 57.75it/s]
54%		13140/24500 [03:36<03:06, 60.93it/s]
54%		13147/24500 [03:36<03:16, 57.77it/s]
54%		13154/24500 [03:36<03:16, 57.69it/s]
54%		13161/24500 [03:37<03:06, 60.81it/s]
54%		13168/24500 [03:37<03:35, 52.63it/s]
54%		13174/24500 [03:37<03:51, 48.95it/s]
54%		13182/24500 [03:37<03:27, 54.64it/s]
54%		13188/24500 [03:37<03:30, 53.70it/s]
54%		13196/24500 [03:37<03:12, 58.63it/s]
54%		13203/24500 [03:37<03:22, 55.86it/s]
54%		13210/24500 [03:37<03:16, 57.31it/s]
54%		13219/24500 [03:38<02:57, 63.54it/s]
54%		13226/24500 [03:38<03:02, 61.78it/s]
54%		13234/24500 [03:38<02:54, 64.70it/s]
54%		13241/24500 [03:38<03:06, 60.34it/s]
54%		13248/24500 [03:38<03:08, 59.79it/s]
54%		13255/24500 [03:38<03:02, 61.53it/s]
54%		13262/24500 [03:38<03:10, 59.00it/s]
54%		13269/24500 [03:38<03:15, 57.36it/s]
54%		13276/24500 [03:39<03:10, 59.05it/s]

54%	13284/24500 [03:39<03:04, 60.78it/s]
54%	13291/24500 [03:39<03:02, 61.43it/s]
54%	13298/24500 [03:39<03:31, 53.06it/s]
54%	13304/24500 [03:39<03:24, 54.74it/s]
54%	13312/24500 [03:39<03:10, 58.65it/s]
54%	13319/24500 [03:39<03:11, 58.37it/s]
54%	13326/24500 [03:39<03:11, 58.44it/s]
54%	13333/24500 [03:40<03:16, 56.93it/s]
54%	13339/24500 [03:40<03:33, 52.37it/s]
54%	13347/24500 [03:40<03:12, 57.90it/s]
55%	13354/24500 [03:40<03:14, 57.21it/s]
55%	13362/24500 [03:40<02:59, 61.96it/s]
55%	13370/24500 [03:40<02:50, 65.46it/s]
55%	13377/24500 [03:40<02:48, 65.98it/s]
55%	13384/24500 [03:40<02:59, 61.85it/s]
55%	13391/24500 [03:40<03:07, 59.31it/s]
55%	13398/24500 [03:41<03:08, 58.94it/s]
55%	13405/24500 [03:41<03:10, 58.21it/s]
55%	13413/24500 [03:41<02:58, 62.11it/s]
55%	13421/24500 [03:41<02:47, 66.29it/s]
55%	13428/24500 [03:41<03:10, 58.04it/s]
55%	13435/24500 [03:41<03:06, 59.28it/s]
55%	13442/24500 [03:41<03:01, 61.04it/s]
55%	13450/24500 [03:41<02:54, 63.27it/s]
55%	13457/24500 [03:42<03:11, 57.65it/s]
55%	13463/24500 [03:42<03:11, 57.50it/s]
55%	13469/24500 [03:42<03:22, 54.39it/s]
55%	13475/24500 [03:42<03:20, 55.05it/s]

55%	13473/24500 [03:42<03:07, 58.55it/s]
55%	13482/24500 [03:42<03:07, 58.82it/s]
55%	13489/24500 [03:42<03:07, 58.61it/s]
55%	13496/24500 [03:42<03:03, 60.04it/s]
55%	13503/24500 [03:42<03:00, 61.09it/s]
55%	13510/24500 [03:42<02:54, 62.87it/s]
55%	13517/24500 [03:43<03:03, 59.91it/s]
55%	13525/24500 [03:43<02:52, 63.46it/s]
55%	13532/24500 [03:43<02:54, 62.88it/s]
55%	13539/24500 [03:43<03:02, 59.92it/s]
55%	13546/24500 [03:43<03:25, 53.25it/s]
55%	13553/24500 [03:43<03:12, 56.85it/s]
55%	13561/24500 [03:43<03:01, 60.31it/s]
55%	13569/24500 [03:43<02:50, 63.99it/s]
55%	13576/24500 [03:44<03:07, 58.28it/s]
55%	13583/24500 [03:44<03:06, 58.44it/s]
55%	13591/24500 [03:44<02:55, 62.09it/s]
56%	13598/24500 [03:44<02:53, 62.66it/s]
56%	13605/24500 [03:44<02:58, 61.16it/s]
56%	13612/24500 [03:44<03:05, 58.79it/s]
56%	13619/24500 [03:44<03:00, 60.15it/s]
56%	13626/24500 [03:44<02:57, 61.18it/s]
56%	13633/24500 [03:45<03:20, 54.13it/s]
56%	13643/24500 [03:45<02:54, 62.08it/s]
56%	13651/24500 [03:45<02:44, 65.90it/s]
56%	13659/24500 [03:45<02:55, 61.63it/s]
56%	13666/24500 [03:45<03:07, 57.67it/s]
56%	13673/24500 [03:45<03:12, 56.21it/s]

56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13683/24500 [03:45<02:49, 63.69it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13690/24500 [03:45<02:45, 65.46it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13698/24500 [03:45<02:40, 67.29it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13705/24500 [03:46<02:50, 63.37it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13713/24500 [03:46<02:43, 65.92it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13720/24500 [03:46<02:51, 62.75it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13729/24500 [03:46<02:43, 65.89it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13737/24500 [03:46<02:40, 66.89it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13744/24500 [03:46<02:38, 67.77it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13751/24500 [03:46<02:55, 61.21it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13758/24500 [03:46<02:51, 62.82it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13765/24500 [03:47<02:48, 63.87it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13773/24500 [03:47<02:39, 67.42it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13780/24500 [03:47<03:00, 59.51it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13787/24500 [03:47<03:08, 56.69it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13797/24500 [03:47<02:45, 64.81it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13805/24500 [03:47<02:50, 62.72it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13814/24500 [03:47<02:39, 67.18it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13822/24500 [03:47<02:56, 60.41it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13830/24500 [03:48<02:45, 64.61it/s]
56%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13837/24500 [03:48<02:50, 62.48it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13845/24500 [03:48<02:39, 66.82it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13852/24500 [03:48<03:09, 56.30it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13861/24500 [03:48<02:49, 62.90it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13868/24500 [03:48<02:53, 61.45it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13875/24500 [03:48<03:09, 56.09it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13881/24500 [03:48<03:05, 57.21it/s]
57%	 A horizontal progress bar consisting of a black segment followed by a white segment.	13888/24500 [03:49<02:59, 59.00it/s]

57%	13895/24500 [03:49<02:58, 59.45it/s]
57%	13903/24500 [03:49<02:44, 64.40it/s]
57%	13910/24500 [03:49<03:12, 55.09it/s]
57%	13917/24500 [03:49<03:04, 57.40it/s]
57%	13925/24500 [03:49<02:56, 60.02it/s]
57%	13932/24500 [03:49<03:07, 56.49it/s]
57%	13938/24500 [03:49<03:08, 55.92it/s]
57%	13946/24500 [03:50<02:51, 61.46it/s]
57%	13953/24500 [03:50<02:54, 60.46it/s]
57%	13960/24500 [03:50<03:18, 53.09it/s]
57%	13967/24500 [03:50<03:09, 55.50it/s]
57%	13974/24500 [03:50<02:59, 58.78it/s]
57%	13981/24500 [03:50<02:54, 60.43it/s]
57%	13988/24500 [03:50<03:05, 56.78it/s]
57%	13999/24500 [03:50<02:40, 65.39it/s]
57%	14007/24500 [03:50<02:40, 65.18it/s]
57%	14014/24500 [03:51<02:55, 59.64it/s]
57%	14022/24500 [03:51<02:45, 63.42it/s]
57%	14029/24500 [03:51<02:43, 64.22it/s]
57%	14036/24500 [03:51<02:56, 59.30it/s]
57%	14044/24500 [03:51<02:52, 60.63it/s]
57%	14051/24500 [03:51<02:57, 59.01it/s]
57%	14059/24500 [03:51<02:44, 63.47it/s]
57%	14067/24500 [03:51<02:34, 67.63it/s]
57%	14074/24500 [03:52<02:59, 58.15it/s]
57%	14081/24500 [03:52<03:06, 55.98it/s]
58%	14088/24500 [03:52<03:05, 56.14it/s]

58%	14094/24500 [03:52<03:04, 56.26it/s]
58%	14101/24500 [03:52<02:55, 59.16it/s]
58%	14108/24500 [03:52<02:59, 58.04it/s]
58%	14114/24500 [03:52<03:02, 56.96it/s]
58%	14123/24500 [03:52<02:43, 63.43it/s]
58%	14130/24500 [03:53<02:56, 58.65it/s]
58%	14137/24500 [03:53<03:05, 55.80it/s]
58%	14144/24500 [03:53<02:56, 58.52it/s]
58%	14153/24500 [03:53<02:43, 63.45it/s]
58%	14160/24500 [03:53<02:42, 63.68it/s]
58%	14168/24500 [03:53<02:34, 66.90it/s]
58%	14175/24500 [03:53<02:46, 62.12it/s]
58%	14182/24500 [03:53<02:53, 59.41it/s]
58%	14189/24500 [03:53<02:45, 62.18it/s]
58%	14196/24500 [03:54<02:48, 61.01it/s]
58%	14203/24500 [03:54<02:49, 60.75it/s]
58%	14210/24500 [03:54<02:54, 59.00it/s]
58%	14217/24500 [03:54<02:56, 58.11it/s]
58%	14224/24500 [03:54<02:55, 58.39it/s]
58%	14230/24500 [03:54<02:54, 58.82it/s]
58%	14237/24500 [03:54<02:47, 61.42it/s]
58%	14244/24500 [03:54<02:58, 57.46it/s]
58%	14251/24500 [03:55<02:52, 59.53it/s]
58%	14258/24500 [03:55<02:50, 59.97it/s]
58%	14265/24500 [03:55<02:48, 60.59it/s]
58%	14272/24500 [03:55<02:53, 58.96it/s]
58%	14278/24500 [03:55<03:28, 49.08it/s]
58%	14284/24500 [03:55<03:18, 51.44it/s]

58%		14292/24500 [03:55<02:59, 56.86it/s]
58%		14299/24500 [03:55<03:08, 54.06it/s]
58%		14306/24500 [03:56<02:58, 57.19it/s]
58%		14312/24500 [03:56<03:00, 56.39it/s]
58%		14319/24500 [03:56<02:50, 59.80it/s]
58%		14326/24500 [03:56<02:44, 61.85it/s]
59%		14333/24500 [03:56<03:07, 54.31it/s]
59%		14339/24500 [03:56<03:03, 55.33it/s]
59%		14347/24500 [03:56<02:50, 59.58it/s]
59%		14354/24500 [03:56<03:00, 56.31it/s]
59%		14363/24500 [03:56<02:41, 62.65it/s]
59%		14370/24500 [03:57<02:58, 56.86it/s]
59%		14378/24500 [03:57<02:42, 62.24it/s]
59%		14385/24500 [03:57<02:45, 61.04it/s]
59%		14392/24500 [03:57<03:02, 55.28it/s]
59%		14398/24500 [03:57<03:13, 52.22it/s]
59%		14404/24500 [03:57<03:08, 53.47it/s]
59%		14414/24500 [03:57<02:43, 61.66it/s]
59%		14421/24500 [03:57<02:48, 59.75it/s]
59%		14428/24500 [03:58<02:45, 60.88it/s]
59%		14436/24500 [03:58<02:35, 64.93it/s]
59%		14443/24500 [03:58<02:48, 59.59it/s]
59%		14450/24500 [03:58<02:41, 62.36it/s]
59%		14457/24500 [03:58<03:04, 54.39it/s]
59%		14466/24500 [03:58<02:46, 60.09it/s]
59%		14474/24500 [03:58<02:36, 64.05it/s]
59%		14481/24500 [03:58<02:45, 60.59it/s]

59%	14488/24500 [03:59<02:42, 61.45it/s]
59%	14495/24500 [03:59<02:45, 60.53it/s]
59%	14502/24500 [03:59<02:57, 56.32it/s]
59%	14508/24500 [03:59<02:54, 57.35it/s]
59%	14516/24500 [03:59<02:46, 59.96it/s]
59%	14523/24500 [03:59<02:43, 60.98it/s]
59%	14531/24500 [03:59<02:35, 64.07it/s]
59%	14538/24500 [03:59<02:42, 61.23it/s]
59%	14545/24500 [03:59<02:42, 61.26it/s]
59%	14552/24500 [04:00<02:47, 59.50it/s]
59%	14559/24500 [04:00<02:48, 58.93it/s]
59%	14566/24500 [04:00<02:43, 60.62it/s]
59%	14573/24500 [04:00<02:46, 59.66it/s]
60%	14583/24500 [04:00<02:27, 67.36it/s]
60%	14591/24500 [04:00<02:34, 64.30it/s]
60%	14599/24500 [04:00<02:25, 68.19it/s]
60%	14608/24500 [04:00<02:19, 70.82it/s]
60%	14616/24500 [04:01<02:25, 67.98it/s]
60%	14623/24500 [04:01<02:26, 67.44it/s]
60%	14630/24500 [04:01<02:50, 57.81it/s]
60%	14637/24500 [04:01<02:56, 55.79it/s]
60%	14643/24500 [04:01<02:53, 56.96it/s]
60%	14649/24500 [04:01<02:52, 57.21it/s]
60%	14655/24500 [04:01<02:52, 57.04it/s]
60%	14661/24500 [04:01<02:50, 57.85it/s]
60%	14668/24500 [04:01<02:46, 59.14it/s]
60%	14676/24500 [04:02<02:33, 63.90it/s]
60%	14683/24500 [04:02<02:43, 60.20it/s]

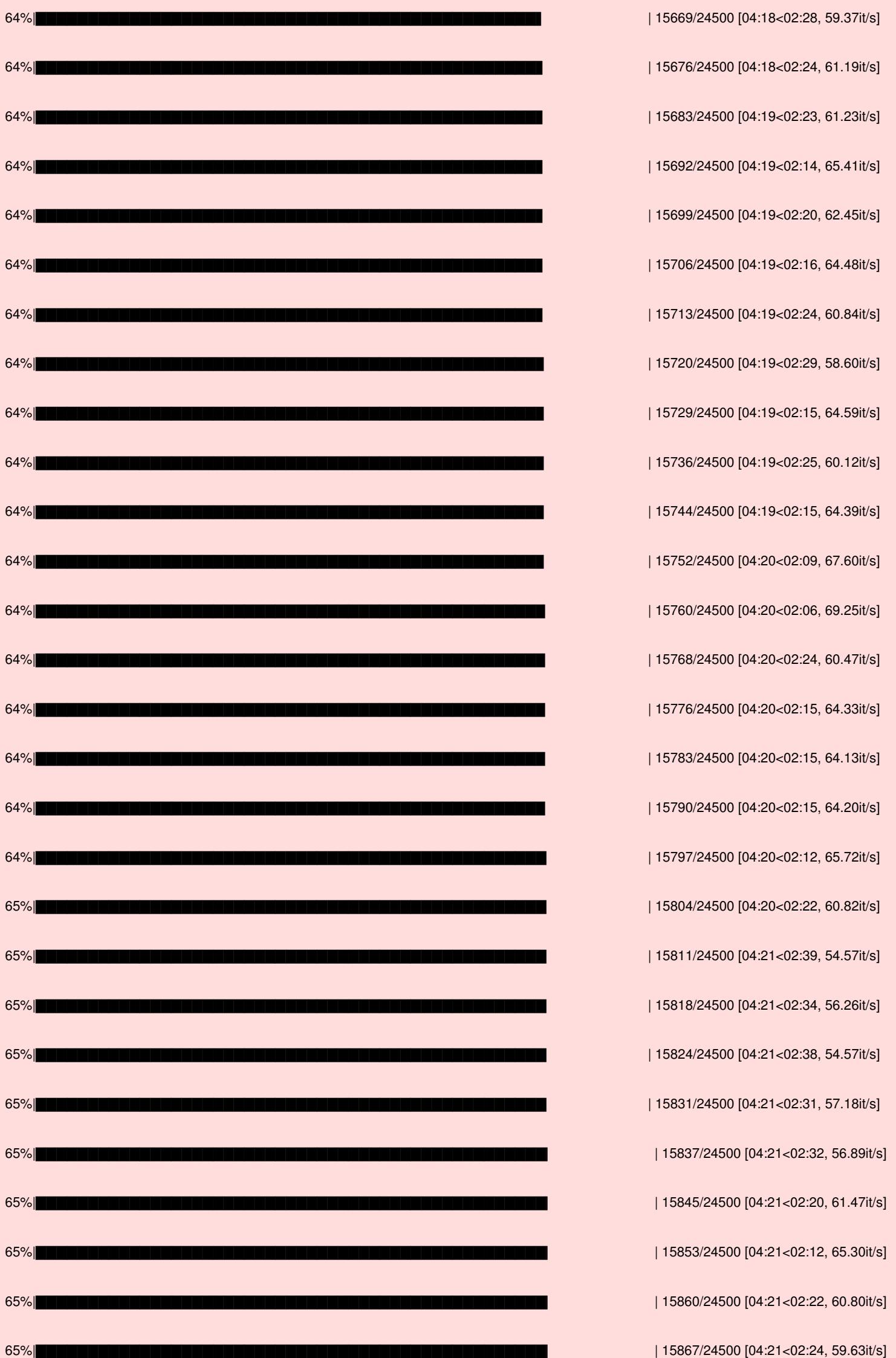
60%	14690/24500 [04:02<02:56, 55.43it/s]
60%	14696/24500 [04:02<03:06, 52.60it/s]
60%	14702/24500 [04:02<03:22, 48.45it/s]
60%	14708/24500 [04:02<03:11, 51.07it/s]
60%	14714/24500 [04:02<03:05, 52.65it/s]
60%	14720/24500 [04:02<03:05, 52.69it/s]
60%	14728/24500 [04:03<02:49, 57.72it/s]
60%	14736/24500 [04:03<02:38, 61.57it/s]
60%	14744/24500 [04:03<02:34, 62.95it/s]
60%	14751/24500 [04:03<02:31, 64.18it/s]
60%	14758/24500 [04:03<02:43, 59.73it/s]
60%	14765/24500 [04:03<02:44, 59.29it/s]
60%	14773/24500 [04:03<02:34, 62.81it/s]
60%	14780/24500 [04:03<02:42, 59.82it/s]
60%	14787/24500 [04:03<02:45, 58.72it/s]
60%	14796/24500 [04:04<02:29, 64.77it/s]
60%	14803/24500 [04:04<02:46, 58.08it/s]
60%	14810/24500 [04:04<02:56, 55.05it/s]
60%	14818/24500 [04:04<02:49, 57.14it/s]
61%	14824/24500 [04:04<02:47, 57.93it/s]
61%	14830/24500 [04:04<02:56, 54.89it/s]
61%	14836/24500 [04:04<03:06, 51.85it/s]
61%	14842/24500 [04:04<03:02, 52.95it/s]
61%	14849/24500 [04:05<02:50, 56.68it/s]
61%	14857/24500 [04:05<02:37, 61.10it/s]
61%	14864/24500 [04:05<02:34, 62.30it/s]
61%	14871/24500 [04:05<02:39, 60.20it/s]

61%	14879/24500 [04:05<02:38, 60.54it/s]
61%	14886/24500 [04:05<02:40, 59.93it/s]
61%	14893/24500 [04:05<02:49, 56.58it/s]
61%	14900/24500 [04:05<02:42, 59.06it/s]
61%	14907/24500 [04:06<02:38, 60.39it/s]
61%	14916/24500 [04:06<02:26, 65.50it/s]
61%	14923/24500 [04:06<02:52, 55.43it/s]
61%	14930/24500 [04:06<02:45, 57.99it/s]
61%	14938/24500 [04:06<02:40, 59.58it/s]
61%	14945/24500 [04:06<02:44, 58.22it/s]
61%	14954/24500 [04:06<02:33, 62.06it/s]
61%	14962/24500 [04:06<02:23, 66.25it/s]
61%	14969/24500 [04:07<02:27, 64.42it/s]
61%	14976/24500 [04:07<02:38, 60.26it/s]
61%	14983/24500 [04:07<02:31, 62.68it/s]
61%	14990/24500 [04:07<02:37, 60.31it/s]
61%	14997/24500 [04:07<02:32, 62.30it/s]
61%	15006/24500 [04:07<02:22, 66.85it/s]
61%	15013/24500 [04:07<02:53, 54.60it/s]
61%	15019/24500 [04:07<02:49, 55.84it/s]
61%	15026/24500 [04:07<02:40, 59.04it/s]
61%	15033/24500 [04:08<02:46, 57.01it/s]
61%	15044/24500 [04:08<02:28, 63.82it/s]
61%	15051/24500 [04:08<02:24, 65.26it/s]
61%	15058/24500 [04:08<02:32, 62.09it/s]
61%	15065/24500 [04:08<02:36, 60.30it/s]
62%	15072/24500 [04:08<02:44, 57.34it/s]
62%	15080/24500 [04:08<02:30, 62.65it/s]

62% ███████████	15088/24500 [04:08<02:21, 66.54it/s]
62% ███████████	15097/24500 [04:09<02:12, 71.08it/s]
62% ███████████	15105/24500 [04:09<02:29, 63.04it/s]
62% ███████████	15112/24500 [04:09<02:37, 59.56it/s]
62% ███████████	15119/24500 [04:09<02:31, 61.90it/s]
62% ███████████	15126/24500 [04:09<02:28, 63.13it/s]
62% ███████████	15133/24500 [04:09<02:24, 64.92it/s]
62% ███████████	15140/24500 [04:09<02:28, 62.84it/s]
62% ███████████	15147/24500 [04:09<02:32, 61.31it/s]
62% ███████████	15156/24500 [04:09<02:20, 66.48it/s]
62% ███████████	15163/24500 [04:10<02:29, 62.50it/s]
62% ███████████	15170/24500 [04:10<02:26, 63.57it/s]
62% ███████████	15177/24500 [04:10<02:34, 60.25it/s]
62% ███████████	15184/24500 [04:10<02:40, 58.17it/s]
62% ███████████	15190/24500 [04:10<02:43, 57.11it/s]
62% ███████████	15196/24500 [04:10<02:48, 55.38it/s]
62% ███████████	15204/24500 [04:10<02:32, 61.01it/s]
62% ███████████	15212/24500 [04:10<02:24, 64.11it/s]
62% ███████████	15219/24500 [04:11<02:29, 62.25it/s]
62% ███████████	15226/24500 [04:11<02:28, 62.60it/s]
62% ███████████	15233/24500 [04:11<02:32, 60.69it/s]
62% ███████████	15240/24500 [04:11<02:36, 59.05it/s]
62% ███████████	15246/24500 [04:11<02:54, 53.00it/s]
62% ███████████	15252/24500 [04:11<03:06, 49.54it/s]
62% ███████████	15259/24500 [04:11<02:50, 54.26it/s]
62% ███████████	15266/24500 [04:11<02:40, 57.66it/s]
62% ███████████	15272/24500 [04:12<02:56, 52.26it/s]

62%	[REDACTED]	15280/24500 [04:12<02:45, 55.82it/s]
62%	[REDACTED]	15287/24500 [04:12<02:37, 58.60it/s]
62%	[REDACTED]	15294/24500 [04:12<02:35, 59.36it/s]
62%	[REDACTED]	15301/24500 [04:12<02:47, 54.88it/s]
62%	[REDACTED]	15310/24500 [04:12<02:30, 60.91it/s]
63%	[REDACTED]	15317/24500 [04:12<02:40, 57.23it/s]
63%	[REDACTED]	15325/24500 [04:12<02:26, 62.49it/s]
63%	[REDACTED]	15332/24500 [04:12<02:40, 56.96it/s]
63%	[REDACTED]	15339/24500 [04:13<02:46, 54.97it/s]
63%	[REDACTED]	15347/24500 [04:13<02:39, 57.52it/s]
63%	[REDACTED]	15353/24500 [04:13<02:39, 57.27it/s]
63%	[REDACTED]	15361/24500 [04:13<02:30, 60.62it/s]
63%	[REDACTED]	15368/24500 [04:13<02:42, 56.17it/s]
63%	[REDACTED]	15375/24500 [04:13<02:36, 58.22it/s]
63%	[REDACTED]	15382/24500 [04:13<02:28, 61.30it/s]
63%	[REDACTED]	15391/24500 [04:13<02:18, 65.67it/s]
63%	[REDACTED]	15398/24500 [04:14<02:26, 62.31it/s]
63%	[REDACTED]	15405/24500 [04:14<02:30, 60.39it/s]
63%	[REDACTED]	15412/24500 [04:14<02:53, 52.32it/s]
63%	[REDACTED]	15420/24500 [04:14<02:40, 56.69it/s]
63%	[REDACTED]	15426/24500 [04:14<02:40, 56.55it/s]
63%	[REDACTED]	15432/24500 [04:14<02:41, 56.07it/s]
63%	[REDACTED]	15438/24500 [04:14<02:44, 55.05it/s]
63%	[REDACTED]	15445/24500 [04:14<02:40, 56.41it/s]
63%	[REDACTED]	15452/24500 [04:15<02:32, 59.28it/s]
63%	[REDACTED]	15459/24500 [04:15<02:43, 55.18it/s]
63%	[REDACTED]	15467/24500 [04:15<02:36, 57.85it/s]
63%	[REDACTED]	15473/24500 [04:15<02:36, 57.85it/s]

63%	15481/24500 [04:15<02:26, 61.74it/s]
63%	15488/24500 [04:15<02:28, 60.57it/s]
63%	15495/24500 [04:15<02:47, 53.61it/s]
63%	15503/24500 [04:15<02:35, 57.99it/s]
63%	15511/24500 [04:16<02:25, 61.78it/s]
63%	15518/24500 [04:16<02:30, 59.82it/s]
63%	15525/24500 [04:16<02:25, 61.88it/s]
63%	15532/24500 [04:16<02:19, 64.10it/s]
63%	15541/24500 [04:16<02:16, 65.58it/s]
63%	15548/24500 [04:16<02:43, 54.89it/s]
63%	15554/24500 [04:16<02:52, 51.95it/s]
64%	15560/24500 [04:16<02:49, 52.73it/s]
64%	15566/24500 [04:17<02:54, 51.15it/s]
64%	15572/24500 [04:17<03:08, 47.36it/s]
64%	15578/24500 [04:17<03:00, 49.35it/s]
64%	15585/24500 [04:17<02:50, 52.15it/s]
64%	15591/24500 [04:17<02:52, 51.50it/s]
64%	15597/24500 [04:17<02:47, 53.20it/s]
64%	15604/24500 [04:17<02:37, 56.50it/s]
64%	15610/24500 [04:17<02:36, 56.86it/s]
64%	15618/24500 [04:17<02:25, 60.91it/s]
64%	15626/24500 [04:18<02:15, 65.49it/s]
64%	15633/24500 [04:18<02:30, 59.08it/s]
64%	15640/24500 [04:18<02:22, 61.96it/s]
64%	15647/24500 [04:18<02:29, 59.26it/s]
64%	15654/24500 [04:18<02:23, 61.45it/s]
64%	15661/24500 [04:18<02:43, 54.07it/s]



65%	15874/24500 [04:22<02:21, 61.14it/s]
65%	15881/24500 [04:22<02:21, 60.79it/s]
65%	15888/24500 [04:22<02:27, 58.36it/s]
65%	15894/24500 [04:22<02:52, 49.93it/s]
65%	15901/24500 [04:22<02:40, 53.60it/s]
65%	15908/24500 [04:22<02:30, 56.99it/s]
65%	15917/24500 [04:22<02:15, 63.13it/s]
65%	15924/24500 [04:22<02:26, 58.57it/s]
65%	15931/24500 [04:23<02:24, 59.29it/s]
65%	15940/24500 [04:23<02:12, 64.58it/s]
65%	15948/24500 [04:23<02:08, 66.34it/s]
65%	15955/24500 [04:23<02:20, 60.76it/s]
65%	15962/24500 [04:23<02:22, 59.95it/s]
65%	15969/24500 [04:23<02:24, 58.90it/s]
65%	15976/24500 [04:23<02:17, 61.84it/s]
65%	15983/24500 [04:23<02:41, 52.68it/s]
65%	15989/24500 [04:24<02:43, 51.93it/s]
65%	15997/24500 [04:24<02:32, 55.78it/s]
65%	16003/24500 [04:24<02:38, 53.59it/s]
65%	16009/24500 [04:24<02:59, 47.30it/s]
65%	16017/24500 [04:24<02:40, 52.93it/s]
65%	16023/24500 [04:24<02:36, 54.31it/s]
65%	16031/24500 [04:24<02:23, 58.94it/s]
65%	16038/24500 [04:24<02:31, 55.86it/s]
65%	16046/24500 [04:25<02:18, 61.18it/s]
66%	16053/24500 [04:25<02:16, 61.94it/s]
66%	16060/24500 [04:25<02:31, 55.78it/s]

66%	16067/24500 [04:25<02:25, 57.83it/s]
66%	16075/24500 [04:25<02:18, 60.68it/s]
66%	16082/24500 [04:25<02:14, 62.49it/s]
66%	16090/24500 [04:25<02:09, 65.14it/s]
66%	16097/24500 [04:25<02:30, 55.91it/s]
66%	16106/24500 [04:26<02:14, 62.20it/s]
66%	16113/24500 [04:26<02:13, 63.01it/s]
66%	16121/24500 [04:26<02:08, 65.27it/s]
66%	16131/24500 [04:26<01:55, 72.59it/s]
66%	16140/24500 [04:26<01:52, 74.44it/s]
66%	16148/24500 [04:26<02:02, 68.31it/s]
66%	16156/24500 [04:26<01:57, 71.30it/s]
66%]	16164/24500 [04:26<02:04, 66.76it/s]
66%]	16171/24500 [04:26<02:10, 63.87it/s]
66%]	16178/24500 [04:27<02:13, 62.32it/s]
66%]	16185/24500 [04:27<02:13, 62.26it/s]
66%]	16192/24500 [04:27<02:12, 62.62it/s]
66%]	16201/24500 [04:27<02:05, 65.98it/s]
66%]	16208/24500 [04:27<02:20, 59.18it/s]
66%]	16215/24500 [04:27<02:32, 54.26it/s]
66%]	16222/24500 [04:27<02:25, 56.79it/s]
66%]	16229/24500 [04:27<02:27, 55.89it/s]
66%]	16237/24500 [04:28<02:17, 60.25it/s]
66%]	16245/24500 [04:28<02:09, 63.94it/s]

66% [███████████]	16252/24500 [04:28<02:14, 61.42it/s]
66% [███████████]	16259/24500 [04:28<02:12, 62.17it/s]
66% [███████████]	16266/24500 [04:28<02:24, 57.02it/s]
66% [███████████]	16273/24500 [04:28<02:17, 59.76it/s]
66% [███████████]	16282/24500 [04:28<02:05, 65.60it/s]
66% [███████████]	16290/24500 [04:28<01:58, 69.31it/s]
67% [███████████]	16298/24500 [04:29<02:10, 63.05it/s]
67% [███████████]	16305/24500 [04:29<02:08, 63.92it/s]
67% [███████████]	16312/24500 [04:29<02:13, 61.53it/s]
67% [███████████]	16319/24500 [04:29<02:20, 58.09it/s]
67% [███████████]	16326/24500 [04:29<02:13, 61.17it/s]
67% [███████████]	16333/24500 [04:29<02:18, 58.80it/s]
67% [███████████]	16340/24500 [04:29<02:15, 60.15it/s]
67% [███████████]	16347/24500 [04:29<02:11, 62.09it/s]
67% [███████████]	16357/24500 [04:29<01:57, 69.22it/s]
67% [███████████]	16366/24500 [04:30<01:57, 69.18it/s]
67% [███████████]	16374/24500 [04:30<02:07, 63.92it/s]
67% [███████████]	16382/24500 [04:30<02:01, 66.61it/s]
67% [███████████]	16391/24500 [04:30<01:52, 72.02it/s]
67% [███████████]	16399/24500 [04:30<02:00, 67.43it/s]
67% [███████████]	16406/24500 [04:30<02:13, 60.46it/s]

67%	16400/24500 [04:30<02:13, 60.40it/s]
67%	16413/24500 [04:30<02:17, 58.88it/s]
67%	16423/24500 [04:30<02:04, 64.95it/s]
67%	16431/24500 [04:31<02:00, 67.14it/s]
67%	16440/24500 [04:31<01:54, 70.32it/s]
67%	16448/24500 [04:31<02:14, 59.81it/s]
67%	16455/24500 [04:31<02:29, 53.64it/s]
67%	16462/24500 [04:31<02:33, 52.48it/s]
67%	16468/24500 [04:31<02:43, 49.09it/s]
67%	16474/24500 [04:31<02:56, 45.37it/s]
67%	16479/24500 [04:32<03:01, 44.11it/s]
67% s]	16484/24500 [04:32<03:04, 43.40it/s]
67% s]	16489/24500 [04:32<03:35, 37.09it/s]
67% s]	16493/24500 [04:32<03:43, 35.77it/s]
67% s]	16498/24500 [04:32<03:32, 37.60it/s]
67% s]	16502/24500 [04:32<03:39, 36.42it/s]
67% s]	16506/24500 [04:32<03:41, 36.11it/s]
67% s]	16511/24500 [04:32<03:36, 36.84it/s]
67% s]	16515/24500 [04:33<03:56, 33.81it/s]
67% s]	16519/24500 [04:33<04:13, 31.47it/s]
67% s]	16523/24500 [04:33<04:53, 27.14it/s]

67%|
s]

| 16528/24500 [04:33<04:19, 30.70it/

67%|
s]

| 16532/24500 [04:33<04:51, 27.34it/

67%|
s]

| 16535/24500 [04:33<04:51, 27.31it/

68%|
s]

| 16539/24500 [04:33<04:25, 30.02it/

68%|
s]

| 16544/24500 [04:34<03:57, 33.54it/

68%|
s]

| 16548/24500 [04:34<03:55, 33.75it/

68%|
s]

| 16553/24500 [04:34<03:39, 36.22it/

68%|
s]

| 16557/24500 [04:34<03:33, 37.25it/

68%|
s]

| 16562/24500 [04:34<03:22, 39.13it/

68%|
s]

| 16567/24500 [04:34<03:25, 38.51it/

68%|
s]

| 16572/24500 [04:34<03:20, 39.62it/

68%|
s]

| 16577/24500 [04:34<03:30, 37.70it/

68%|
s]

| 16582/24500 [04:35<03:20, 39.58it/

68%|
s]

| 16588/24500 [04:35<03:03, 43.13it/

68%|
s]

| 16595/24500 [04:35<02:45, 47.62it/

68%|
s]

| 16601/24500 [04:35<02:52, 45.86it/

68%|
s]

| 16607/24500 [04:35<02:41, 49.02it/

68%|
s]

| 16614/24500 [04:35<02:27, 53.46it/

68%|
s]

| 16620/24500 [04:35<02:29, 52.62it/

68%|
s]

| 16627/24500 [04:35<02:23, 54.89it/

68%|
s]

| 16633/24500 [04:35<02:22, 55.13it/

68% [redacted] s]	16639/24500 [04:36<02:26, 53.53it/
68% [redacted] s]	16646/24500 [04:36<02:20, 55.95it/
68% [redacted] s]	16652/24500 [04:36<02:23, 54.82it/
68% [redacted] s]	16658/24500 [04:36<02:50, 46.02it/
68% [redacted] s]	16664/24500 [04:36<02:46, 47.10it/
68% [redacted] s]	16674/24500 [04:36<02:21, 55.45it/
68% [redacted] s]	16681/24500 [04:36<02:12, 59.13it/
68% [redacted] s]	16688/24500 [04:36<02:09, 60.46it/
68% [redacted] s]	16695/24500 [04:37<02:07, 61.31it/
68% [redacted] s]	16702/24500 [04:37<02:10, 59.83it/
68% [redacted] s]	16709/24500 [04:37<02:11, 59.35it/
68% [redacted] s]	16716/24500 [04:37<02:20, 55.41it/
68% [redacted] s]	16722/24500 [04:37<02:21, 55.10it/
68% [redacted] s]	16728/24500 [04:37<02:18, 55.97it/
68% [redacted] s]	16735/24500 [04:37<02:12, 58.55it/
68% [redacted] s]	16741/24500 [04:37<02:39, 48.63it/
68% [redacted] s]	16748/24500 [04:37<02:25, 53.37it/
68% [redacted] s]	16755/24500 [04:38<02:16, 56.59it/
68% [redacted] s]	16761/24500 [04:38<02:19, 55.63it/
68% [redacted] s]	16768/24500 [04:38<02:14, 57.29it/

68% s]	16774/24500 [04:38<02:33, 50.38it/
68% s]	16781/24500 [04:38<02:22, 54.02it/
69% s]	16789/24500 [04:38<02:11, 58.51it/
69% s]	16796/24500 [04:38<02:05, 61.26it/
69% s]	16803/24500 [04:38<02:11, 58.59it/
69% t/s]	16810/24500 [04:39<02:06, 60.91i
69% t/s]	16817/24500 [04:39<02:04, 61.82i
69% t/s]	16824/24500 [04:39<02:12, 58.04i
69% t/s]	16830/24500 [04:39<02:21, 54.29i
69% t/s]	16837/24500 [04:39<02:15, 56.56i
69% t/s]	16846/24500 [04:39<02:01, 62.89i
69% t/s]	16855/24500 [04:39<01:51, 68.55i
69% t/s]	16864/24500 [04:39<01:46, 71.93i
69% t/s]	16872/24500 [04:40<01:59, 63.63i
69% t/s]	16879/24500 [04:40<01:57, 64.92i
69% t/s]	16886/24500 [04:40<01:55, 65.94i
69% t/s]	16893/24500 [04:40<01:56, 65.29i
69% t/s]	16900/24500 [04:40<02:05, 60.48i
69% t/s]	16908/24500 [04:40<02:00, 63.14i
69% t/s]	16915/24500 [04:40<02:25, 52.12i
69% t/s]	16921/24500 [04:40<02:24, 52.31i

69% t/s]	16927/24500 [04:41<02:36, 48.52i
69% t/s]	16935/24500 [04:41<02:19, 54.26i
69% t/s]	16943/24500 [04:41<02:07, 59.19i
69% t/s]	16950/24500 [04:41<02:08, 58.96i
69% t/s]	16957/24500 [04:41<02:04, 60.37i
69% t/s]	16964/24500 [04:41<02:05, 60.25i
69% t/s]	16971/24500 [04:41<02:01, 62.21i
69% t/s]	16979/24500 [04:41<01:57, 64.12i
69% t/s]	16986/24500 [04:41<01:57, 63.98i
69% t/s]	16993/24500 [04:42<02:13, 56.20i
69% t/s]	17000/24500 [04:42<02:06, 59.06i
69% t/s]	17007/24500 [04:42<02:08, 58.48i
69% t/s]	17014/24500 [04:42<02:08, 58.26i
69% t/s]	17021/24500 [04:42<02:05, 59.67i
70% t/s]	17028/24500 [04:42<02:05, 59.61i
70% t/s]	17036/24500 [04:42<01:58, 62.92i
70% t/s]	17043/24500 [04:42<01:55, 64.76i
70% t/s]	17050/24500 [04:42<01:59, 62.57i
70% t/s]	17057/24500 [04:43<02:14, 55.48i
70% t/s]	17064/24500 [04:43<02:09, 57.42i
70% t/s]	17070/24500 [04:43<02:11, 56.49i

t/s]	
70% t/s]	17077/24500 [04:43<02:03, 59.94i
70% t/s]	17084/24500 [04:43<02:02, 60.37i
70% t/s]	17092/24500 [04:43<01:57, 62.78i
70% t/s]	17099/24500 [04:43<01:57, 62.99i
70% t/s]	17106/24500 [04:43<02:01, 60.90i
70% t/s]	17113/24500 [04:44<02:27, 50.22i
70% t/s]	17120/24500 [04:44<02:17, 53.80i
70% 6it/s]	17127/24500 [04:44<02:07, 57.6
70% 0it/s]	17134/24500 [04:44<02:04, 59.3
70% 6it/s]	17141/24500 [04:44<02:15, 54.3
70% 1it/s]	17147/24500 [04:44<02:13, 55.0
70% 7it/s]	17154/24500 [04:44<02:08, 57.3
70% 3it/s]	17160/24500 [04:44<02:24, 50.7
70% 7it/s]	17167/24500 [04:45<02:12, 55.2
70% 5it/s]	17173/24500 [04:45<02:12, 55.2
70% 7it/s]	17180/24500 [04:45<02:07, 57.3
70% 5it/s]	17187/24500 [04:45<02:01, 60.1
70% 7it/s]	17194/24500 [04:45<02:15, 53.9
70% 0it/s]	17203/24500 [04:45<01:59, 61.3
70% 6it/s]	17210/24500 [04:45<01:57, 61.9

70% 9it/s]	17217/24500 [04:45<01:56, 62.5
70% 7it/s]	17224/24500 [04:45<01:59, 61.0
70% 7it/s]	17233/24500 [04:46<01:49, 66.1
70% 0it/s]	17240/24500 [04:46<01:49, 66.6
70% 4it/s]	17247/24500 [04:46<01:57, 61.9
70% 5it/s]	17254/24500 [04:46<01:58, 61.2
70% 0it/s]	17261/24500 [04:46<01:58, 61.1
70% 8it/s]	17269/24500 [04:46<01:52, 64.3
71% 7it/s]	17276/24500 [04:46<01:58, 60.8
71% 5it/s]	17283/24500 [04:46<02:14, 53.6
71% 9it/s]	17290/24500 [04:47<02:06, 56.8
71% 4it/s]	17296/24500 [04:47<02:05, 57.3
71% 4it/s]	17302/24500 [04:47<02:04, 57.6
71% 2it/s]	17308/24500 [04:47<02:19, 51.4
71% 9it/s]	17315/24500 [04:47<02:13, 53.7
71% 4it/s]	17322/24500 [04:47<02:08, 55.8
71% 7it/s]	17330/24500 [04:47<01:59, 59.9
71% 7it/s]	17338/24500 [04:47<01:51, 63.9
71% 6it/s]	17345/24500 [04:48<02:08, 55.6
71% 2it/s]	17352/24500 [04:48<02:02, 58.4
71% 1it/s]	17359/24500 [04:48<02:18, 51.5

71%
4it/s]

| 17365/24500 [04:48<02:26, 48.5

71%
7it/s]

| 17372/24500 [04:48<02:15, 52.6

71%
4it/s]

| 17380/24500 [04:48<02:02, 58.2

71%
6it/s]

| 17388/24500 [04:48<01:53, 62.4

71%
0it/s]

| 17395/24500 [04:48<02:00, 59.0

71%
9it/s]

| 17402/24500 [04:49<02:05, 56.4

71%
7it/s]

| 17408/24500 [04:49<02:13, 52.9

71%
9it/s]

| 17414/24500 [04:49<02:10, 54.2

71%
6it/s]

| 17423/24500 [04:49<01:58, 59.6

71%
9it/s]

| 17430/24500 [04:49<01:57, 60.1

71%
5it/s]

| 17437/24500 [04:49<02:01, 58.3

71%
2it/s]

| 17445/24500 [04:49<01:53, 62.4

71%
8it/s]

| 17453/24500 [04:49<01:46, 66.0

71%
6it/s]

| 17460/24500 [04:49<01:52, 62.5

71%
9it/s]

| 17467/24500 [04:50<01:54, 61.2

71%
0it/s]

| 17475/24500 [04:50<01:47, 65.2

71%
9it/s]

| 17482/24500 [04:50<01:56, 60.3

71%
5it/s]

| 17490/24500 [04:50<01:55, 60.7

71%
6it/s]

| 17497/24500 [04:50<01:53, 61.5

71%
3it/s]

| 17504/24500 [04:50<01:59, 58.4

71%|

| 17513/24500 [04:50<01:50, 63.2

6it/s]	17522/24500 [04:50<01:43, 67.6
72% 9it/s]	17531/24500 [04:51<01:37, 71.4
72% 7it/s]	17539/24500 [04:51<01:39, 69.9
72% 7it/s]	17547/24500 [04:51<01:44, 66.4
72% 9it/s]	17554/24500 [04:51<01:57, 58.9
72% 5it/s]	17563/24500 [04:51<01:46, 64.9
72% 1it/s]	17570/24500 [04:51<01:59, 58.1
72% 3it/s]	17579/24500 [04:51<01:55, 59.8
72% 1it/s]	17586/24500 [04:51<01:53, 60.9
72% 5it/s]	17593/24500 [04:52<01:54, 60.1
72% 6it/s]	17600/24500 [04:52<02:01, 56.6
72% 1it/s]	17606/24500 [04:52<01:59, 57.6
72% 8it/s]	17614/24500 [04:52<01:55, 59.5
72% 9it/s]	17621/24500 [04:52<02:06, 54.1
72% 7it/s]	17630/24500 [04:52<01:52, 61.0
72% 8it/s]	17639/24500 [04:52<01:43, 66.0
72% 4it/s]	17647/24500 [04:52<01:42, 66.9
72% 9it/s]	17654/24500 [04:53<01:42, 66.9
72% 9it/s]	17661/24500 [04:53<01:42, 66.7
72% 4it/s]	17668/24500 [04:53<02:04, 54.7

72%|

7it/s]

| 17675/24500 [04:53<02:01, 55.9

72%|

9it/s]

| 17681/24500 [04:53<02:04, 54.7

72%|

9it/s]

| 17687/24500 [04:53<02:07, 53.3

72%|

0it/s]

| 17695/24500 [04:53<01:56, 58.5

72%|

5it/s]

| 17702/24500 [04:53<01:53, 59.9

72%|

0it/s]

| 17709/24500 [04:54<02:11, 51.6

72%|

8it/s]

| 17715/24500 [04:54<02:07, 53.2

72%|

5it/s]

| 17721/24500 [04:54<02:04, 54.6

72%|

9it/s]

| 17728/24500 [04:54<01:57, 57.5

72%|

1it/s]

| 17734/24500 [04:54<02:06, 53.5

72%|

8it/s]

| 17741/24500 [04:54<01:57, 57.4

72%|

7it/s]

| 17747/24500 [04:54<01:58, 56.7

72%|

7it/s]

| 17755/24500 [04:54<01:51, 60.6

72%|

2it/s]

| 17762/24500 [04:54<01:57, 57.4

73%|

8it/s]

| 17768/24500 [04:55<01:56, 57.8

73%|

21it/s]

| 17775/24500 [04:55<01:55, 58.

73%|

78it/s]

| 17782/24500 [04:55<01:52, 59.

73%|

00it/s]

| 17789/24500 [04:55<01:51, 60.

73%|

64it/s]

| 17796/24500 [04:55<01:54, 58.

73%|

25it/s]

| 17803/24500 [04:55<01:51, 60.

73%|

48it/s]

| 17813/24500 [04:55<01:39, 67.

73% [redacted] 69it/s]	17821/24500 [04:55<01:46, 62.
73% [redacted] 93it/s]	17829/24500 [04:55<01:41, 65.
73% [redacted] 83it/s]	17836/24500 [04:56<01:47, 61.
73% [redacted] 31it/s]	17843/24500 [04:56<01:46, 62.
73% [redacted] 72it/s]	17851/24500 [04:56<01:41, 65.
73% [redacted] 26it/s]	17858/24500 [04:56<01:44, 63.
73% [redacted] 64it/s]	17865/24500 [04:56<01:42, 64.
73% [redacted] 34it/s]	17872/24500 [04:56<01:53, 58.
73% [redacted] 69it/s]	17881/24500 [04:56<01:42, 64.
73% [redacted] 56it/s]	17888/24500 [04:56<01:49, 60.
73% [redacted] 73it/s]	17895/24500 [04:57<01:45, 62.
73% [redacted] 23it/s]	17902/24500 [04:57<01:53, 58.
73% [redacted] 75it/s]	17909/24500 [04:57<01:52, 58.
73% [redacted] 11it/s]	17916/24500 [04:57<01:51, 59.
73% [redacted] 37it/s]	17923/24500 [04:57<01:56, 56.
73% [redacted] 60it/s]	17930/24500 [04:57<01:50, 59.
73% [redacted] 82it/s]	17937/24500 [04:57<01:51, 58.
73% [redacted] 68it/s]	17943/24500 [04:57<01:53, 57.
73% [redacted] 06it/s]	17949/24500 [04:57<01:52, 58.
73% [redacted] 37it/s]	17955/24500 [04:58<01:56, 56.
73% [redacted] 06it/s]	17962/24500 [04:58<01:46, 61.

73%		17963/24500 [04:58<01:46, 61.
81it/s]		
73%		17971/24500 [04:58<01:40, 64.
10it/s]		
73%		17978/24500 [04:58<01:46, 61.
73it/s]		
73%		17985/24500 [04:58<01:54, 56.
20it/s]		
73%		17992/24500 [04:58<01:53, 57.
64it/s]		
73%		17999/24500 [04:58<01:49, 59.
52it/s]		
74%		18007/24500 [04:58<01:40, 64.
25it/s]		
74%		18014/24500 [04:59<01:40, 64.
73it/s]		
74%		18021/24500 [04:59<01:46, 60.
91it/s]		
74%		18028/24500 [04:59<01:46, 60.
11it/s]		
74%		18035/24500 [04:59<01:45, 61.
63it/s]		
74%		18042/24500 [04:59<01:50, 58.
56it/s]		
74%		18048/24500 [04:59<01:52, 57.
99it/s]		
74%		18054/24500 [04:59<01:53, 56.
79it/s]		
74%		18060/24500 [04:59<01:59, 53.
77it/s]		
74%		18066/24500 [04:59<02:06, 50.
84it/s]		
74%		18072/24500 [05:00<02:01, 52.
13it/s]		
74%		18078/24500 [05:00<02:05, 51.
28it/s]		
74%		18086/24500 [05:00<01:51, 57.
9.66it/s]		
74%		18093/24500 [05:00<01:47, 5
1.83it/s]		
74%		18100/24500 [05:00<01:43, 6

74%|
9.76it/s]

| 18107/24500 [05:00<01:46, 5

74%|
1.82it/s]

| 18114/24500 [05:00<01:43, 6

74%|
5.37it/s]

| 18122/24500 [05:00<01:37, 6

74%|
4.09it/s]

| 18129/24500 [05:00<01:39, 6

74%|
2.95it/s]

| 18136/24500 [05:01<01:41, 6

74%|
0.18it/s]

| 18143/24500 [05:01<01:45, 6

74%|
0.44it/s]

| 18150/24500 [05:01<01:45, 6

74%|
1.57it/s]

| 18157/24500 [05:01<01:43, 6

74%|
6.51it/s]

| 18164/24500 [05:01<01:52, 5

74%|
2.39it/s]

| 18173/24500 [05:01<01:41, 6

74%|
9.76it/s]

| 18180/24500 [05:01<01:45, 5

74%|
0.29it/s]

| 18187/24500 [05:01<01:44, 6

74%|
1.47it/s]

| 18194/24500 [05:02<01:42, 6

74%|
3.16it/s]

| 18201/24500 [05:02<01:39, 6

74%|
7.87it/s]

| 18208/24500 [05:02<01:48, 5

74%|
4.41it/s]

| 18214/24500 [05:02<01:55, 5

74%|
7.77it/s]

| 18221/24500 [05:02<01:48, 5

74%|
6.17it/s]

| 18227/24500 [05:02<01:51, 5

74%|
0.30it/s]

| 18236/24500 [05:02<01:43, 6

74%|
6.87it/s]

| 18243/24500 [05:02<01:50, 5

74%|
6.42it/s]

| 18249/24500 [05:03<01:50, 5

6.43it/s]

75% 3.73it/s]	18255/24500 [05:03<01:56, 5
75% 5.91it/s]	18262/24500 [05:03<01:51, 5
75% 1.35it/s]	18271/24500 [05:03<01:41, 6
75% 0.42it/s]	18278/24500 [05:03<01:42, 6
75% 1.92it/s]	18285/24500 [05:03<01:40, 6
75% 7.28it/s]	18292/24500 [05:03<01:48, 5
75% 9.57it/s]	18299/24500 [05:03<01:44, 5
75% 9.23it/s]	18306/24500 [05:04<02:05, 4
75% 4.00it/s]	18313/24500 [05:04<01:54, 5
75% 6.54it/s]	18320/24500 [05:04<01:49, 5
75% 5.81it/s]	18326/24500 [05:04<02:14, 4
75% 9.56it/s]	18333/24500 [05:04<02:04, 4
75% 0.23it/s]	18339/24500 [05:04<02:02, 5
75% 1.89it/s]	18345/24500 [05:04<01:58, 5
75% 6.16it/s]	18352/24500 [05:04<01:49, 5
75% 8.69it/s]	18359/24500 [05:04<01:44, 5
75% 5.14it/s]	18368/24500 [05:05<01:34, 6
75% 9.72it/s]	18377/24500 [05:05<01:27, 6
75% 1.24it/s]	18386/24500 [05:05<01:25, 7
75% 8.66it/s]	18394/24500 [05:05<01:28, 6

75% 1.01it/s]	18402/24500 [05:05<01:25, 7
75% 3.36it/s]	18410/24500 [05:05<01:23, 7
75% 71.41it/s]	18418/24500 [05:05<01:25,
75% 61.70it/s]	18426/24500 [05:05<01:38,
75% 62.28it/s]	18433/24500 [05:06<01:37,
75% 59.48it/s]	18440/24500 [05:06<01:41,
75% 57.58it/s]	18447/24500 [05:06<01:45,
75% 54.67it/s]	18453/24500 [05:06<01:50,
75% 55.28it/s]	18459/24500 [05:06<01:49,
75% 53.92it/s]	18465/24500 [05:06<01:51,
75% 56.27it/s]	18472/24500 [05:06<01:47,
75% 64.18it/s]	18482/24500 [05:06<01:33,
75% 56.63it/s]	18489/24500 [05:07<01:46,
75% 59.65it/s]	18496/24500 [05:07<01:40,
76% 64.27it/s]	18504/24500 [05:07<01:33,
76% 64.02it/s]	18511/24500 [05:07<01:33,
76% 58.43it/s]	18518/24500 [05:07<01:42,
76% 59.03it/s]	18525/24500 [05:07<01:41,
76% 60.38it/s]	18532/24500 [05:07<01:38,
76% 63.58it/s]	18540/24500 [05:07<01:33,
76% 61.91it/s]	18547/24500 [05:07<01:36,

76% 56.38it/s]	18554/24500 [05:08<01:45,
76% 56.56it/s]	18560/24500 [05:08<01:45,
76% 59.15it/s]	18567/24500 [05:08<01:40,
76% 59.55it/s]	18574/24500 [05:08<01:39,
76% 56.64it/s]	18581/24500 [05:08<01:44,
76% 56.20it/s]	18587/24500 [05:08<01:45,
76% 53.37it/s]	18593/24500 [05:08<01:50,
76% 58.54it/s]	18601/24500 [05:08<01:40,
76% 55.34it/s]	18608/24500 [05:09<01:46,
76% 60.33it/s]	18616/24500 [05:09<01:37,
76% 63.32it/s]	18624/24500 [05:09<01:32,
76% 63.32it/s]	18631/24500 [05:09<01:32,
76% 59.23it/s]	18638/24500 [05:09<01:38,
76% 62.09it/s]	18645/24500 [05:09<01:34,
76% 55.95it/s]	18652/24500 [05:09<01:44,
76% 58.05it/s]	18659/24500 [05:09<01:40,
76% 62.40it/s]	18667/24500 [05:09<01:33,
76% 59.56it/s]	18674/24500 [05:10<01:37,
76% 57.01it/s]	18681/24500 [05:10<01:42,
76% 48.29it/s]	18687/24500 [05:10<02:00,
76%	18693/24500 [05:10<01:57,

49.43it/s]

76% 43.45it/s]	18699/24500 [05:10<02:13,
76% 44.66it/s]	18704/24500 [05:10<02:09,
76% 43.30it/s]	18709/24500 [05:10<02:13,
76% 42.40it/s]	18714/24500 [05:11<02:16,
76% 41.75it/s]	18719/24500 [05:11<02:18,
76% 41.09it/s]	18724/24500 [05:11<02:20,
76% 42.77it/s]	18729/24500 [05:11<02:14,
76% 44.15it/s]	18735/24500 [05:11<02:10,
76% 45.05it/s]	18740/24500 [05:11<02:07,
77% 39.40it/s]	18745/24500 [05:11<02:26,
77% 40.72it/s]	18750/24500 [05:11<02:21,
77% 40.43it/s]	18755/24500 [05:12<02:22,
77% 40.59it/s]	18760/24500 [05:12<02:21,
77% 39.50it/s]	18765/24500 [05:12<02:25,
77% 42.54it/s]	18771/24500 [05:12<02:14,
77% 46.13it/s]	18777/24500 [05:12<02:04,
77% 45.48it/s]	18782/24500 [05:12<02:05,
77% 48.81it/s]	18788/24500 [05:12<01:57,
77% 53.12it/s]	18795/24500 [05:12<01:47,
77% 54.16it/s]	18801/24500 [05:12<01:45,

77% 57.45it/s]	18808/24500 [05:13<01:39,
77% 63.73it/s]	18817/24500 [05:13<01:29,
77% 64.92it/s]	18824/24500 [05:13<01:27,
77% 56.07it/s]	18831/24500 [05:13<01:41,
77% 55.02it/s]	18837/24500 [05:13<01:42,
77% 60.93it/s]	18846/24500 [05:13<01:32,
77% 59.38it/s]	18855/24500 [05:13<01:35,
77% 56.67it/s]	18862/24500 [05:13<01:39,
77% 57.63it/s]	18869/24500 [05:14<01:37,
77% 55.44it/s]	18875/24500 [05:14<01:41,
77% 60.20it/s]	18883/24500 [05:14<01:33,
77% 55.03it/s]	18890/24500 [05:14<01:41,
77% 52.47it/s]	18896/24500 [05:14<01:46,
77% 51.16it/s]	18902/24500 [05:14<01:49,
77% 53.87it/s]	18910/24500 [05:14<01:43,
77% 61.84it/s]	18920/24500 [05:14<01:30,
77% 60.18it/s]	18927/24500 [05:15<01:32,
77% 64.40it/s]	18937/24500 [05:15<01:26,
77% 67.28it/s]	18945/24500 [05:15<01:22,
77% 68.83it/s]	18953/24500 [05:15<01:20,
77% 66.41it/s]	18961/24500 [05:15<01:23,

77% 61.48it/s]	18968/24500 [05:15<01:29,
77% 62.08it/s]	18975/24500 [05:15<01:28,
77% 68.40it/s]	18984/24500 [05:15<01:20,
78% 73.93it/s]	18994/24500 [05:15<01:14,
78% 71.47it/s]	19002/24500 [05:16<01:16,
78% 59.30it/s]	19010/24500 [05:16<01:32,
78% 63.12it/s]	19018/24500 [05:16<01:26,
78% 62.64it/s]	19025/24500 [05:16<01:27,
78% 64.02it/s]	19032/24500 [05:16<01:25,
78% 67.80it/s]	19040/24500 [05:16<01:20,
78% 60.68it/s]	19047/24500 [05:16<01:29,
78% 62.58it/s]	19054/24500 [05:16<01:27,
78% , 63.02it/s]	19061/24500 [05:17<01:26,
78% , 61.01it/s]	19068/24500 [05:17<01:29,
78% , 60.17it/s]	19075/24500 [05:17<01:30,
78% , 57.91it/s]	19082/24500 [05:17<01:33,
78% , 57.09it/s]	19088/24500 [05:17<01:34,
78% , 56.91it/s]	19095/24500 [05:17<01:34,
78% , 55.27it/s]	19101/24500 [05:17<01:37,
78% , 59.54it/s]	19109/24500 [05:17<01:30,
78%	19116/24500 [05:18<01:35,

78% , 56.32it/s]	19110/24500 [05:18<01:26
78% , 62.44it/s]	19125/24500 [05:18<01:26
78% , 63.37it/s]	19132/24500 [05:18<01:24
78% , 64.13it/s]	19139/24500 [05:18<01:23
78% , 58.56it/s]	19146/24500 [05:18<01:31
78% , 57.04it/s]	19153/24500 [05:18<01:33
78% , 55.33it/s]	19159/24500 [05:18<01:36
78% , 55.27it/s]	19165/24500 [05:18<01:36
78% , 52.88it/s]	19171/24500 [05:19<01:40
78% , 40.51it/s]	19177/24500 [05:19<02:11
78% , 44.78it/s]	19183/24500 [05:19<01:58
78% , 51.57it/s]	19191/24500 [05:19<01:42
78% , 57.71it/s]	19199/24500 [05:19<01:31
78% , 52.65it/s]	19206/24500 [05:19<01:40
78% , 56.11it/s]	19213/24500 [05:19<01:34
78% , 56.88it/s]	19220/24500 [05:19<01:32
78% , 60.24it/s]	19227/24500 [05:20<01:27
79% , 58.09it/s]	19234/24500 [05:20<01:30
79% , 59.59it/s]	19241/24500 [05:20<01:28
79% , 63.92it/s]	19249/24500 [05:20<01:22
79% , 56.88it/s]	19256/24500 [05:20<01:32

79% , 53.86it/s]	19262/24500 [05:20<01:37
79% , 54.05it/s]	19268/24500 [05:20<01:36
79% , 54.26it/s]	19274/24500 [05:20<01:36
79% , 54.38it/s]	19280/24500 [05:20<01:35
79% , 58.14it/s]	19287/24500 [05:21<01:29
79% , 59.72it/s]	19294/24500 [05:21<01:27
79% , 56.47it/s]	19301/24500 [05:21<01:32
79% , 53.82it/s]	19307/24500 [05:21<01:36
79% , 52.52it/s]	19313/24500 [05:21<01:38
79% , 48.76it/s]	19319/24500 [05:21<01:46
79% , 54.91it/s]	19328/24500 [05:21<01:34
79% , 54.54it/s]	19334/24500 [05:21<01:34
79% , 52.14it/s]	19340/24500 [05:22<01:38
79% , 56.02it/s]	19347/24500 [05:22<01:31
79% , 54.06it/s]	19353/24500 [05:22<01:35
79% , 51.40it/s]	19359/24500 [05:22<01:40
79% , 53.76it/s]	19366/24500 [05:22<01:35
79% , 49.38it/s]	19372/24500 [05:22<01:43
79% , 52.74it/s]	19379/24500 [05:22<01:37
79% , 51.66it/s]	19385/24500 [05:22<01:3
79% , 51.06it/s]	19391/24500 [05:23<01:4

79% [3, 54.32it/s]	19398/24500 [05:23<01:3
79% [2, 55.00it/s]	19404/24500 [05:23<01:3
79% [9, 57.07it/s]	19413/24500 [05:23<01:2
79% [7, 65.54it/s]	19424/24500 [05:23<01:1
79% [3, 60.45it/s]	19432/24500 [05:23<01:2
79% [0, 62.99it/s]	19439/24500 [05:23<01:2
79% [2, 61.59it/s]	19446/24500 [05:23<01:2
79% [7, 65.46it/s]	19454/24500 [05:23<01:1
79% [5, 66.48it/s]	19462/24500 [05:24<01:1
79% [9, 63.17it/s]	19469/24500 [05:24<01:1
79% [0, 62.24it/s]	19476/24500 [05:24<01:2
80% [9, 56.05it/s]	19483/24500 [05:24<01:2
80% [9, 56.17it/s]	19489/24500 [05:24<01:2
80% [6, 57.65it/s]	19496/24500 [05:24<01:2
80% [7, 57.35it/s]	19502/24500 [05:24<01:2
80% [3, 59.93it/s]	19509/24500 [05:24<01:2
80% [0, 61.73it/s]	19516/24500 [05:25<01:2
80% [0, 61.98it/s]	19523/24500 [05:25<01:2
80% [9, 62.21it/s]	19531/24500 [05:25<01:1
80% [3, 59.31it/s]	19538/24500 [05:25<01:2

80% 0, 61.53it/s]	19545/24500 [05:25<01:2
80% 4, 58.28it/s]	19552/24500 [05:25<01:2
80% 4, 52.48it/s]	19558/24500 [05:25<01:3
80% 1, 48.74it/s]	19564/24500 [05:25<01:4
80% 6, 56.96it/s]	19574/24500 [05:26<01:2
80% 0, 54.13it/s]	19581/24500 [05:26<01:3
80% 5, 57.26it/s]	19588/24500 [05:26<01:2
80% 3, 59.04it/s]	19595/24500 [05:26<01:2
80% 3, 58.83it/s]	19602/24500 [05:26<01:2
80% 4, 51.63it/s]	19609/24500 [05:26<01:3
80% 5, 57.42it/s]	19618/24500 [05:26<01:2
80% 7, 63.07it/s]	19627/24500 [05:26<01:1
80% 5, 64.25it/s]	19634/24500 [05:27<01:1
80% 7, 63.04it/s]	19641/24500 [05:27<01:1
80% 8, 55.07it/s]	19648/24500 [05:27<01:2
80% 7, 55.41it/s]	19654/24500 [05:27<01:2
80% 9, 54.01it/s]	19660/24500 [05:27<01:2
80% 9, 53.92it/s]	19666/24500 [05:27<01:2
80% 8, 54.74it/s]	19672/24500 [05:27<01:2
80% 5, 56.18it/s]	19678/24500 [05:27<01:2
80% 7, 54.88it/s]	19684/24500 [05:27<01:2

80% [0, 59.68it/s]	19692/24500 [05:28<01:2
80% [7, 62.15it/s]	19699/24500 [05:28<01:1
80% [26, 55.22it/s]	19706/24500 [05:28<01:
80% [22, 57.74it/s]	19714/24500 [05:28<01:
80% [24, 56.71it/s]	19720/24500 [05:28<01:
81% [20, 59.23it/s]	19727/24500 [05:28<01:
81% [24, 56.22it/s]	19734/24500 [05:28<01:
81% [24, 56.52it/s]	19740/24500 [05:28<01:
81% [19, 59.77it/s]	19748/24500 [05:29<01:
81% [24, 56.46it/s]	19755/24500 [05:29<01:
81% [31, 51.96it/s]	19761/24500 [05:29<01:
81% [27, 53.80it/s]	19767/24500 [05:29<01:
81% [18, 59.86it/s]	19776/24500 [05:29<01:
81% [14, 63.21it/s]	19784/24500 [05:29<01:
81% [11, 65.78it/s]	19792/24500 [05:29<01:
81% [12, 65.19it/s]	19799/24500 [05:29<01:
81% [16, 61.29it/s]	19806/24500 [05:29<01:
81% [16, 61.33it/s]	19813/24500 [05:30<01:
81% [23, 55.83it/s]	19820/24500 [05:30<01:
81% [22, 56.65it/s]	19826/24500 [05:30<01:
81% [20, 59.51it/s]	19834/24500 [05:30<01:

19, 58.59it/s]

81%	17, 60.14it/s]	19841/24500 [05:30<01:
81%	20, 57.79it/s]	19848/24500 [05:30<01:
81%	17, 60.24it/s]	19855/24500 [05:30<01:
81%	11, 64.94it/s]	19863/24500 [05:30<01:
81%	08, 67.49it/s]	19871/24500 [05:31<01:
81%	08, 67.88it/s]	19878/24500 [05:31<01:
81%	10, 65.48it/s]	19885/24500 [05:31<01:
81%	12, 63.91it/s]	19892/24500 [05:31<01:
81%	13, 62.59it/s]	19899/24500 [05:31<01:
81%	10, 65.26it/s]	19908/24500 [05:31<01:
81%	12, 63.67it/s]	19915/24500 [05:31<01:
81%	13, 62.35it/s]	19922/24500 [05:31<01:
81%	05, 69.45it/s]	19932/24500 [05:31<01:
81%	10, 65.14it/s]	19940/24500 [05:32<01:
81%	10, 64.91it/s]	19947/24500 [05:32<01:
81%	10, 64.75it/s]	19954/24500 [05:32<01:
81%	20, 56.08it/s]	19961/24500 [05:32<01:
82%	11, 63.33it/s]	19971/24500 [05:32<01:
82%	12, 62.44it/s]	19978/24500 [05:32<01:
82%	10, 63.79it/s]	19985/24500 [05:32<01:

82% [09, 64.50it/s]	19992/24500 [05:32<01]
82% [10, 64.20it/s]	19999/24500 [05:32<01]
82% [08, 65.92it/s]	20007/24500 [05:33<01]
82% [11, 62.67it/s]	20014/24500 [05:33<01]
82% [07, 66.40it/s]	20022/24500 [05:33<01]
82% [08, 54.65it/s]	20029/24500 [05:33<01]
82% [09, 62.34it/s]	20039/24500 [05:33<01]
82% [06, 67.07it/s]	20049/24500 [05:33<01]
82% [02, 71.12it/s]	20058/24500 [05:33<01]
82% [03, 69.97it/s]	20066/24500 [05:33<01]
82% [04, 68.47it/s]	20074/24500 [05:34<01]
82% [10, 63.08it/s]	20082/24500 [05:34<01]
82% [14, 59.07it/s]	20089/24500 [05:34<01]
82% [18, 56.03it/s]	20096/24500 [05:34<01]
82% [20, 54.93it/s]	20102/24500 [05:34<01]
82% [13, 59.47it/s]	20110/24500 [05:34<01]
82% [21, 54.03it/s]	20117/24500 [05:34<01]
82% [19, 55.03it/s]	20123/24500 [05:35<01]
82% [23, 52.59it/s]	20129/24500 [05:35<01]
82% [14, 58.93it/s]	20138/24500 [05:35<01]
82% [08, 63.98it/s]	20146/24500 [05:35<01]

82% :08, 63.19it/s]	20153/24500 [05:35<01
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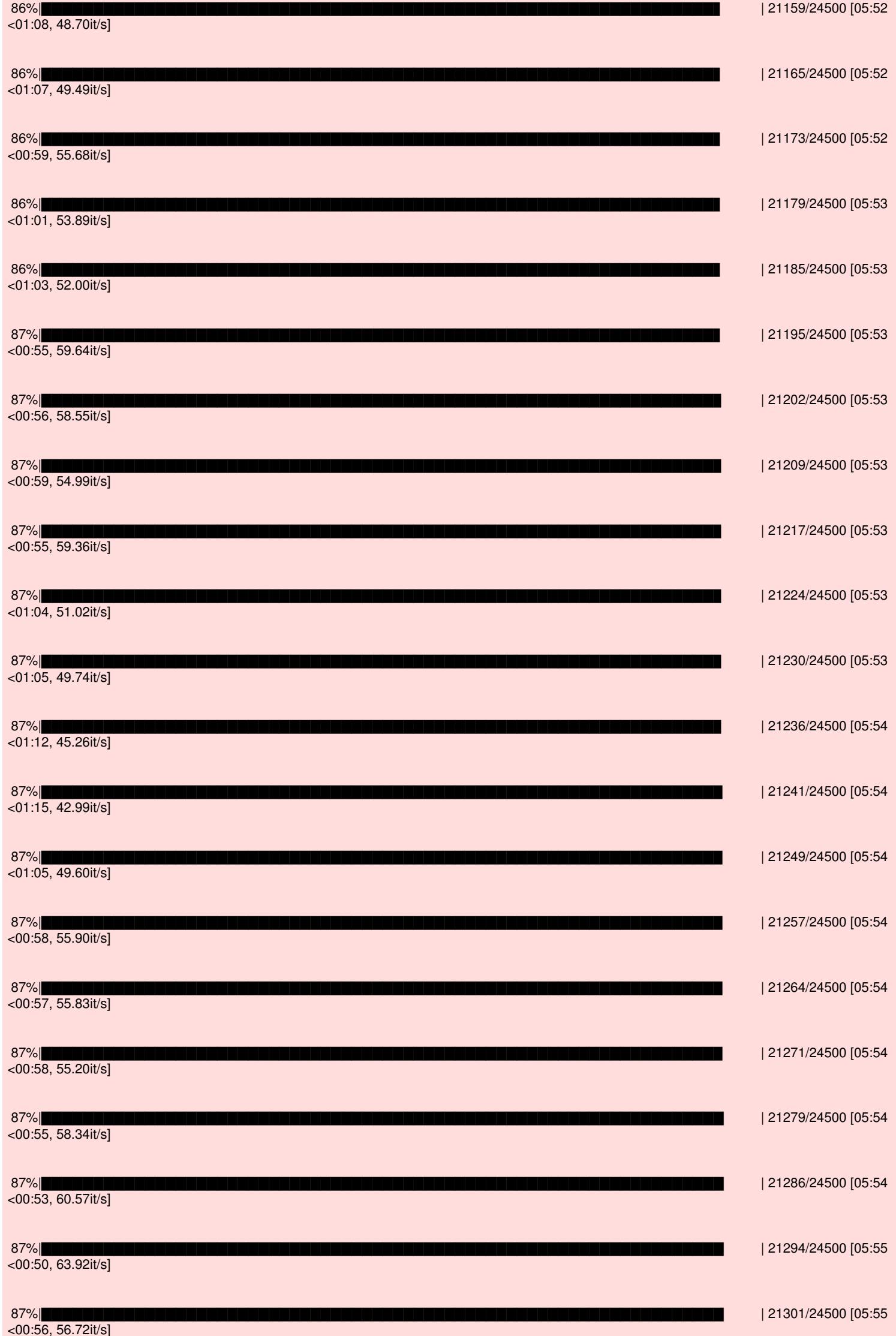
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92% 6:15<00:35, 56.24it/s]	22494/24500 [0

92% 6:15<00:32, 61.32it/s]	22502/24500 [0
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92% 06:17<00:31, 60.14it/s]	22623/24500 [0
92% 06:17<00:30, 61.21it/s]	22630/24500 [0
92% 06:17<00:29, 52.92it/s]	22637/24500 [0

06:17<00:31, 59.22it/s]

92%| [REDACTED] | 22644/24500 [
06:17<00:31, 59.87it/s]

92%| [REDACTED] | 22653/24500 [
06:17<00:28, 63.72it/s]

92%| [REDACTED] | 22661/24500 [
06:18<00:28, 65.24it/s]

93%| [REDACTED] | 22668/24500 [
06:18<00:30, 59.76it/s]

93%| [REDACTED] | 22675/24500 [
06:18<00:32, 55.92it/s]

93%| [REDACTED] | 22681/24500 [
06:18<00:33, 53.98it/s]

93%| [REDACTED] | 22688/24500 [
06:18<00:32, 55.30it/s]

93%| [REDACTED] | 22694/24500 [
06:18<00:32, 55.01it/s]

93%| [REDACTED] | 22702/24500 [
06:18<00:30, 59.87it/s]

93%| [REDACTED] | 22709/24500 [
06:18<00:29, 60.99it/s]

93%| [REDACTED] | 22716/24500 [
06:19<00:30, 58.65it/s]

93%| [REDACTED] | 22722/24500 [
06:19<00:36, 49.23it/s]

93%| [REDACTED] | 22730/24500 [
06:19<00:32, 54.21it/s]

93%| [REDACTED] | 22737/24500 [
06:19<00:30, 57.47it/s]

93%| [REDACTED] | 22744/24500 [
06:19<00:29, 60.30it/s]

93%| [REDACTED] | 22751/24500 [
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93%| [REDACTED] | 22759/24500 [
06:19<00:30, 57.39it/s]

93%| [REDACTED] | 22767/24500 [
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93%| [REDACTED] | 22775/24500 [
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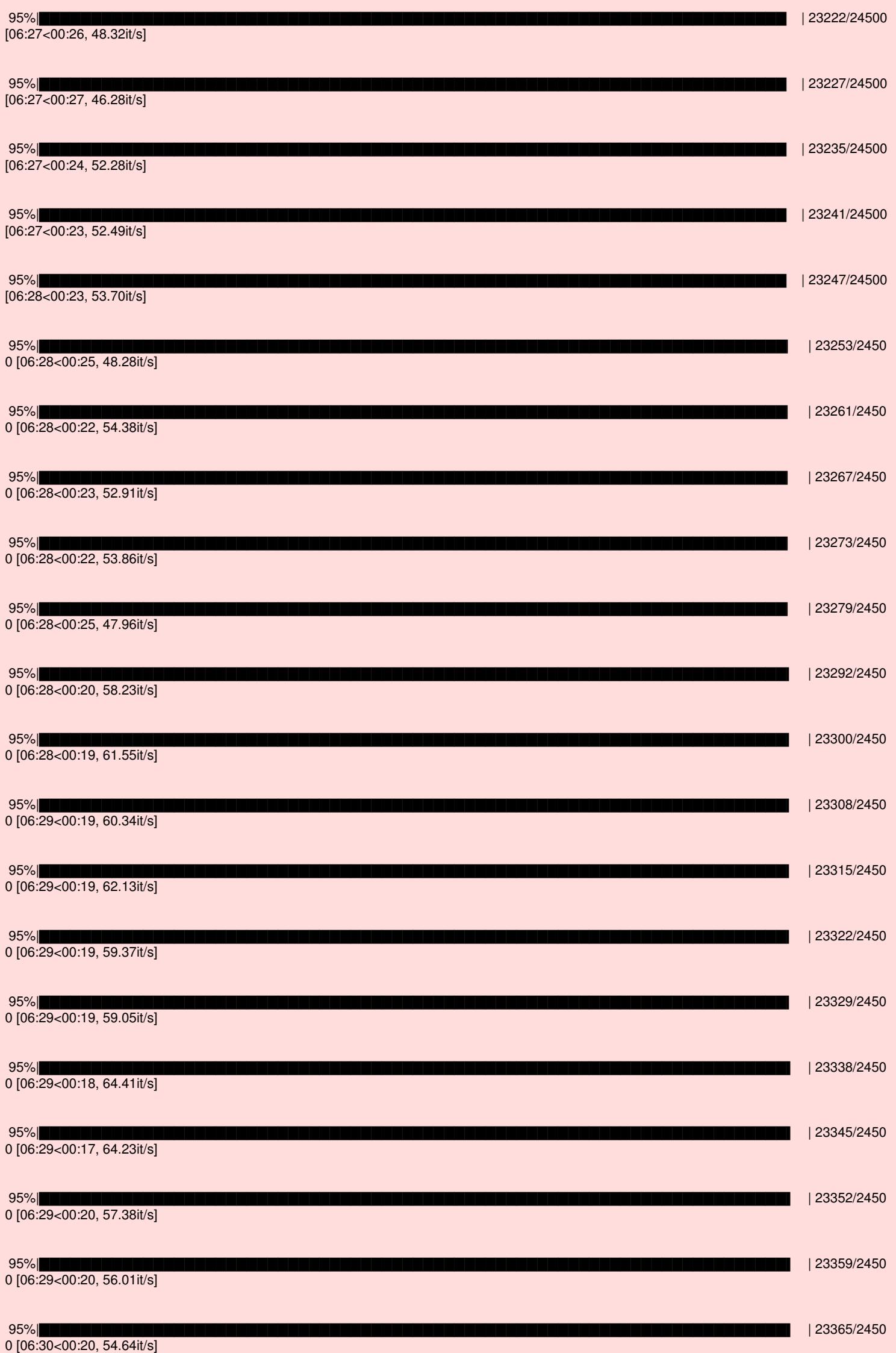
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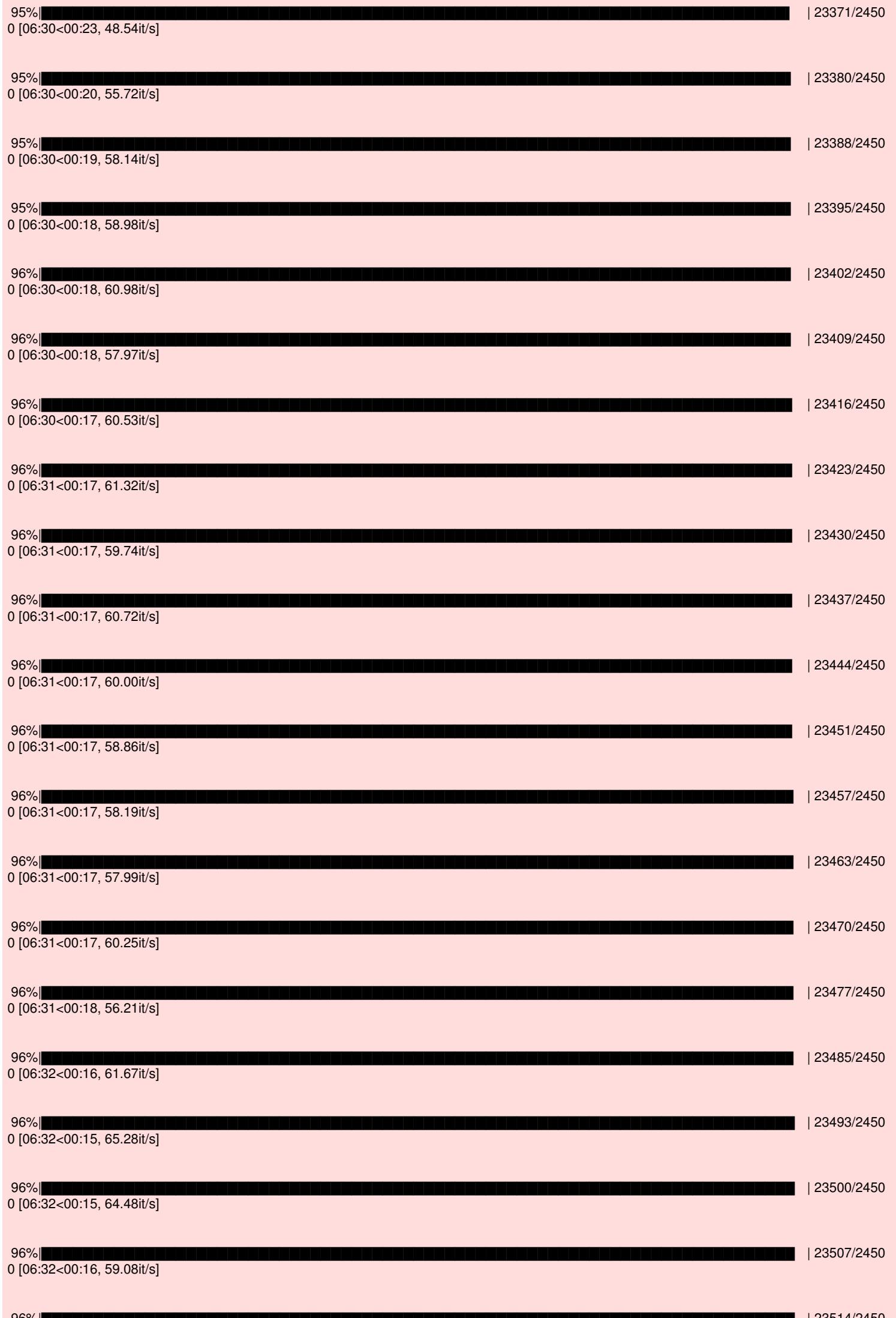
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93%		22829/24500 [
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93%		22876/24500 [
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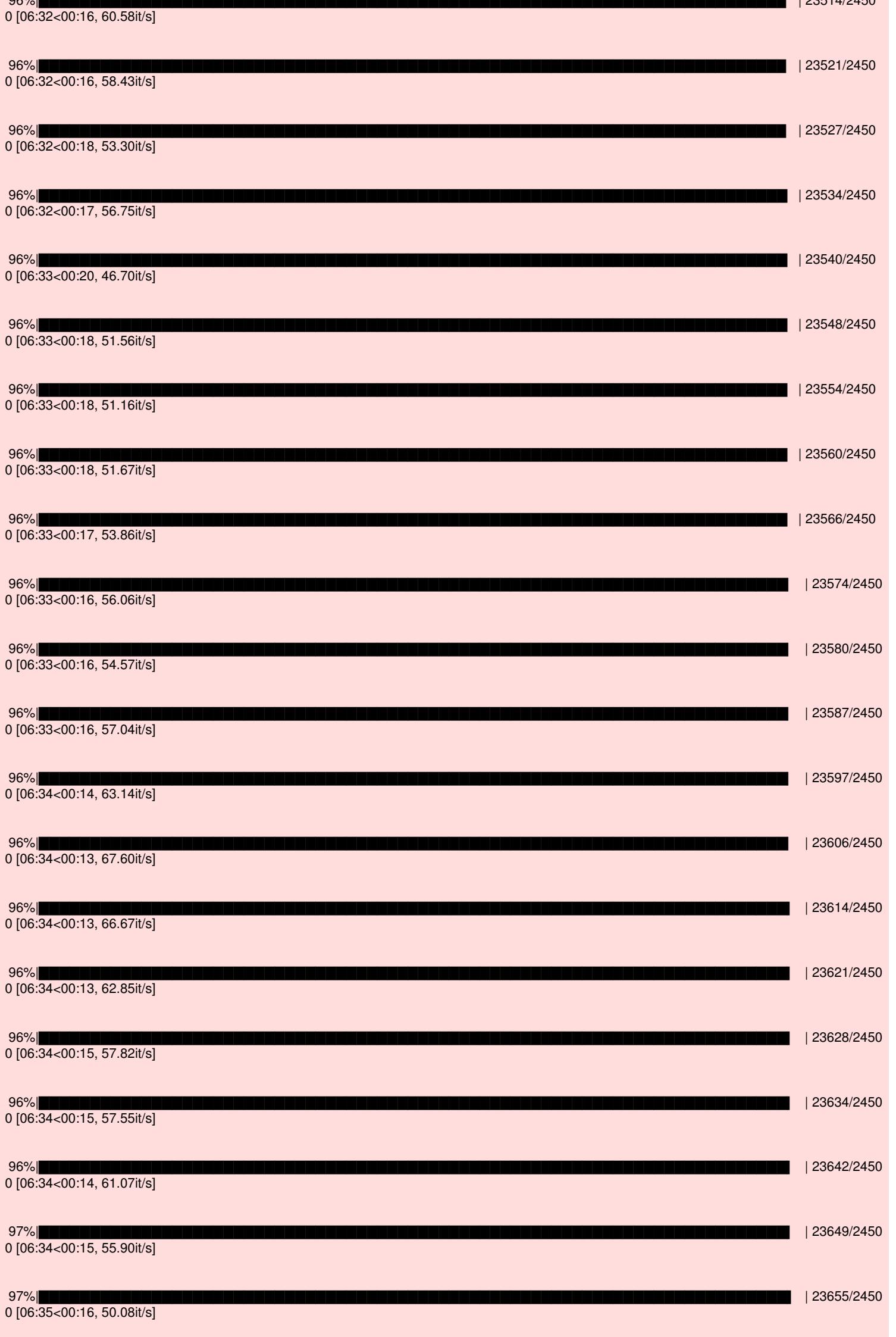
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[06:25<00:25, 56.76it/s]











97%| 23785/2450
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97%| 23811/2450
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97%| 23821/2450
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97%| 23827/2450
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97%| 23832/2450
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97%| 23841/2450
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97%| 23847/2450
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97%| 23854/2450
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97%| 23862/2450
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97%| 23880/2450
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97%| 23886/2450
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98%| 23893/2450
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98%| 23899/2450
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98%| 23905/2450
00 [06:40<00:11, 51.11it/s]

98%		23911/245
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98%| 24072/245
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98%| 24080/245
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98%| 24102/245
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98%| 24109/245
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98%| 24116/245
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98%| 24122/245
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99%| 24205/245
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99%| 24220/24
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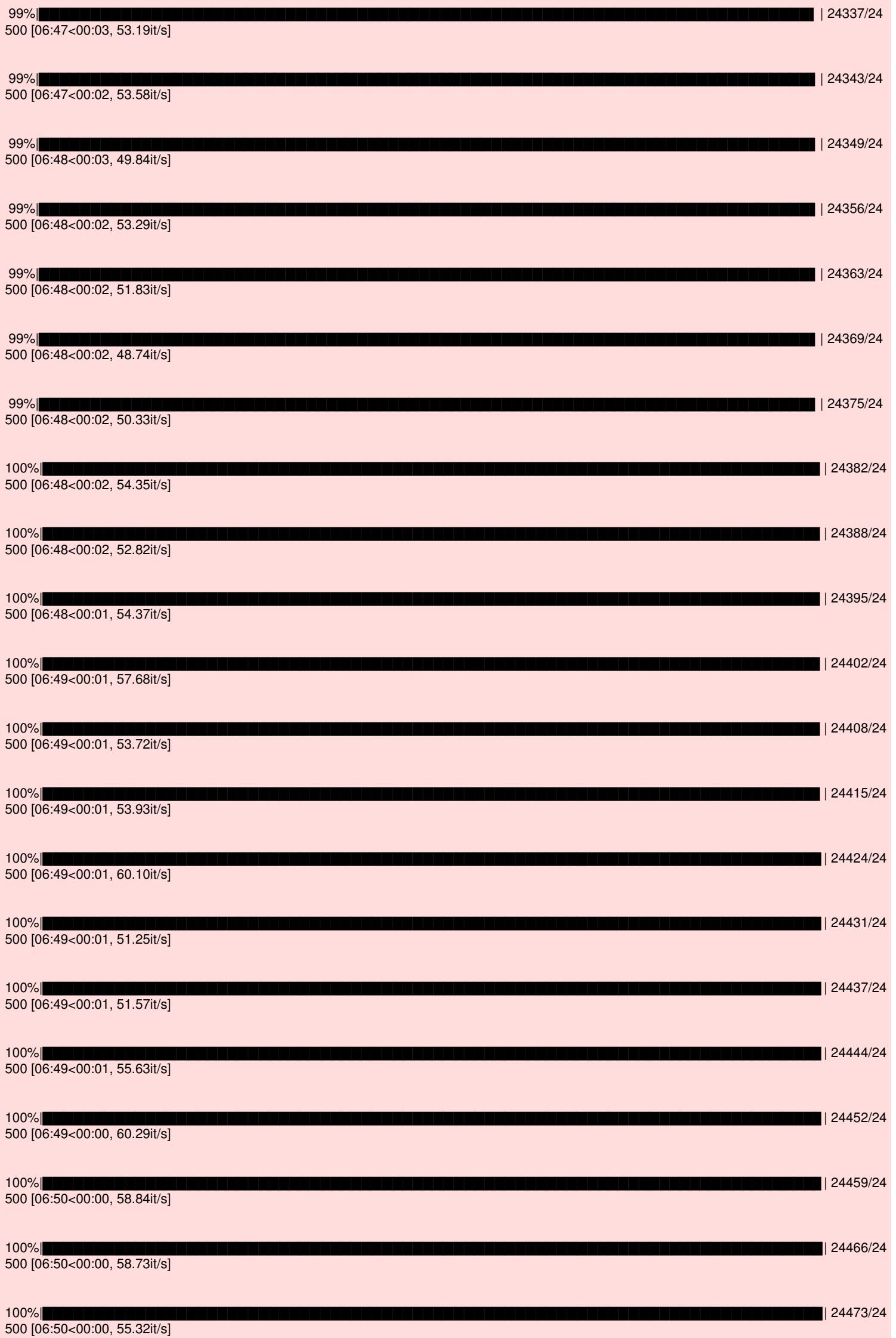
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100%| 24485/24
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100%| 24491/24
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100%| 24496/24
500 [06:50<00:00, 44.98it/s]

100%| 24500/24
500 [06:51<00:00, 59.61it/s]

24500
50

In [313]:

```
tfidf_w2v_vectors_essay_cv = [] # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_cv_df['Preprocessed_Essay'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words1) and (word in tfidf_words2):
            vec = w2v_model1[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary2[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors_essay_cv.append(vector)

print(len(tfidf_w2v_vectors_essay_cv))
print(len(tfidf_w2v_vectors_essay_cv[0]))
```

0%| 0/10500 [00:00<?, ?it/s]

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0%| 27/10500 [00:00<03:03, 57.12it/s]

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2%	167/10500 [00:03<03:18, 52.11it/s]
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2%	198/10500 [00:03<03:32, 48.51it/s]
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2%	213/10500 [00:04<02:58, 57.71it/s]
2%	220/10500 [00:04<03:11, 53.60it/s]
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4%	391/10500 [00:07<03:40, 45.78it/s]
4%	396/10500 [00:07<03:38, 46.23it/s]
4%	401/10500 [00:07<03:44, 45.04it/s]
4%	407/10500 [00:07<03:35, 46.79it/s]
4%	414/10500 [00:08<03:22, 49.78it/s]
4%	422/10500 [00:08<03:05, 54.31it/s]

4% ██████	428/10500 [00:08<03:15, 51.60it/s]
4% ██████	439/10500 [00:08<02:46, 60.36it/s]
4% ██████	446/10500 [00:08<02:56, 56.86it/s]
4% ██████	453/10500 [00:08<02:57, 56.69it/s]
4% ██████	462/10500 [00:08<02:42, 61.71it/s]
4% ██████	469/10500 [00:08<02:45, 60.59it/s]
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5% █████	484/10500 [00:09<02:52, 57.99it/s]
5% █████	492/10500 [00:09<02:41, 61.80it/s]
5% █████	499/10500 [00:09<02:36, 64.05it/s]
5% █████	506/10500 [00:09<02:34, 64.60it/s]
5% █████	513/10500 [00:09<02:49, 58.80it/s]
5% █████	520/10500 [00:09<02:44, 60.80it/s]
5% █████	527/10500 [00:09<02:50, 58.55it/s]
5% █████	534/10500 [00:09<02:42, 61.41it/s]
5% █████	541/10500 [00:10<02:45, 60.19it/s]
5% █████	548/10500 [00:10<02:39, 62.54it/s]
5% █████	557/10500 [00:10<02:33, 64.73it/s]
5% █████	564/10500 [00:10<02:40, 61.89it/s]
5% █████	571/10500 [00:10<02:52, 57.54it/s]
5% █████	577/10500 [00:10<02:52, 57.47it/s]
6% █████	583/10500 [00:10<02:52, 57.58it/s]
6% █████	589/10500 [00:10<02:54, 56.84it/s]
6% █████	597/10500 [00:10<02:40, 61.61it/s]
6% █████	604/10500 [00:11<03:01, 54.63it/s]
6% █████	611/10500 [00:11<02:58, 55.45it/s]
6% █████	617/10500 [00:11<02:57, 55.68it/s]

6% [██████] | 625/10500 [00:11<02:44, 59.90it/s]

6% [██████] | 632/10500 [00:11<03:00, 54.71it/s]

6% [██████] | 643/10500 [00:11<02:35, 63.30it/s]

6% [██████] | 650/10500 [00:11<02:35, 63.45it/s]

6% [██████] | 657/10500 [00:11<02:40, 61.16it/s]

6% [██████] | 664/10500 [00:12<02:52, 56.95it/s]

6% [██████] | 670/10500 [00:12<02:53, 56.74it/s]

6% [██████] | 677/10500 [00:12<02:44, 59.74it/s]

7% [██████] | 686/10500 [00:12<02:32, 64.35it/s]

7% [██████] | 693/10500 [00:12<02:34, 63.49it/s]

7% [██████] | 700/10500 [00:12<03:08, 52.11it/s]

7% [██████] | 709/10500 [00:12<02:47, 58.52it/s]

7% [██████] | 716/10500 [00:12<02:39, 61.22it/s]

7% [██████] | 723/10500 [00:13<02:35, 63.07it/s]

7% [██████] | 730/10500 [00:13<02:45, 59.07it/s]

7% [██████] | 737/10500 [00:13<02:43, 59.74it/s]

7% [██████] | 745/10500 [00:13<02:36, 62.24it/s]

7% [██████] | 753/10500 [00:13<02:26, 66.68it/s]

7% [██████] | 760/10500 [00:13<02:38, 61.64it/s]

7% [██████] | 767/10500 [00:13<02:40, 60.71it/s]

7% [██████] | 775/10500 [00:13<02:32, 63.78it/s]

7% [██████] | 782/10500 [00:14<02:49, 57.36it/s]

8% [██████] | 788/10500 [00:14<02:59, 54.11it/s]

8% [██████] | 795/10500 [00:14<02:50, 56.76it/s]

8% [██████] | 801/10500 [00:14<02:58, 54.43it/s]

8% [██████] | 810/10500 [00:14<02:38, 61.21it/s]

8% [██████] | 817/10500 [00:14<02:48, 57.38it/s]

8% [██████] | 824/10500 [00:14<02:54, 55.59it/s]

8% ███████	830/10500 [00:14<02:52, 56.12it/s]
8% ███████	836/10500 [00:15<03:01, 53.34it/s]
8% ███████	842/10500 [00:15<03:15, 49.49it/s]
8% ███████	848/10500 [00:15<03:06, 51.73it/s]
8% ███████	854/10500 [00:15<03:18, 48.63it/s]
8% ███████	860/10500 [00:15<03:09, 50.88it/s]
8% ███████	866/10500 [00:15<03:01, 52.99it/s]
8% ███████	873/10500 [00:15<02:50, 56.57it/s]
8% ███████	879/10500 [00:15<02:55, 54.92it/s]
8% ███████	887/10500 [00:15<02:42, 59.18it/s]
9% ███████	894/10500 [00:16<02:42, 58.96it/s]
9% ███████	902/10500 [00:16<02:33, 62.45it/s]
9% ███████	910/10500 [00:16<02:25, 65.91it/s]
9% ███████	917/10500 [00:16<02:22, 67.04it/s]
9% ███████	924/10500 [00:16<02:38, 60.33it/s]
9% ███████	931/10500 [00:16<02:42, 58.74it/s]
9% ███████	939/10500 [00:16<02:33, 62.31it/s]
9% ███████	947/10500 [00:16<02:23, 66.69it/s]
9% ███████	955/10500 [00:16<02:17, 69.48it/s]
9% ███████	963/10500 [00:17<02:51, 55.75it/s]
9% ███████	970/10500 [00:17<02:59, 53.24it/s]
9% ███████	976/10500 [00:17<03:02, 52.11it/s]
9% ███████	982/10500 [00:17<02:55, 54.23it/s]
9% ███████	988/10500 [00:17<02:55, 54.35it/s]
9% ███████	994/10500 [00:17<03:38, 43.52it/s]
10% ███████	1002/10500 [00:17<03:19, 47.56it/s]
10% ███████	1010/10500 [00:18<02:58, 53.21it/s]

10%	███████████	1016/10500 [00:18<02:55, 53.96it/s]
10%	███████████	1023/10500 [00:18<02:43, 57.94it/s]
10%	███████████	1030/10500 [00:18<03:03, 51.62it/s]
10%	███████████	1036/10500 [00:18<03:00, 52.47it/s]
10%	███████████	1042/10500 [00:18<03:00, 52.52it/s]
10%	███████████	1050/10500 [00:18<02:45, 57.26it/s]
10%	███████████	1057/10500 [00:18<02:38, 59.68it/s]
10%	███████████	1066/10500 [00:19<02:23, 65.66it/s]
10%	███████████	1073/10500 [00:19<02:29, 62.99it/s]
10%	███████████	1080/10500 [00:19<02:37, 59.91it/s]
10%	███████████	1089/10500 [00:19<02:26, 64.21it/s]
10%	███████████	1096/10500 [00:19<02:48, 55.83it/s]
11%	███████████	1103/10500 [00:19<02:39, 58.88it/s]
11%	███████████	1110/10500 [00:19<02:48, 55.69it/s]
11%	███████████	1119/10500 [00:19<02:30, 62.13it/s]
11%	███████████	1129/10500 [00:20<02:19, 67.03it/s]
11%	███████████	1137/10500 [00:20<02:27, 63.69it/s]
11%	███████████	1144/10500 [00:20<02:28, 62.97it/s]
11%	███████████	1151/10500 [00:20<02:34, 60.59it/s]
11%	███████████	1158/10500 [00:20<02:37, 59.35it/s]
11%	███████████	1165/10500 [00:20<02:46, 56.12it/s]
11%	███████████	1173/10500 [00:20<02:34, 60.28it/s]
11%	███████████	1180/10500 [00:20<02:32, 61.18it/s]
11%	███████████	1189/10500 [00:20<02:19, 66.79it/s]
11%	███████████	1196/10500 [00:21<02:18, 67.26it/s]
11%	███████████	1203/10500 [00:21<02:21, 65.85it/s]
12%	███████████	1211/10500 [00:21<02:19, 66.73it/s]
12%	███████████	1218/10500 [00:21<02:18, 66.93it/s]

12%| [REDACTED]

| 1225/10500 [00:21<02:23, 64.85it/s]

12%| [REDACTED]

| 1232/10500 [00:21<02:19, 66.29it/s]

12%| [REDACTED]

| 1239/10500 [00:21<02:36, 59.02it/s]

12%| [REDACTED]

| 1246/10500 [00:21<02:31, 61.16it/s]

12%| [REDACTED]

| 1253/10500 [00:22<02:55, 52.77it/s]

12%| [REDACTED]

| 1259/10500 [00:22<02:49, 54.64it/s]

12%| [REDACTED]

| 1265/10500 [00:22<02:57, 51.97it/s]

12%| [REDACTED]

| 1272/10500 [00:22<02:45, 55.75it/s]

12%| [REDACTED]

| 1279/10500 [00:22<02:37, 58.38it/s]

12%| [REDACTED]

| 1286/10500 [00:22<02:49, 54.34it/s]

12%| [REDACTED]

| 1292/10500 [00:22<02:48, 54.59it/s]

12%| [REDACTED]

| 1298/10500 [00:22<02:58, 51.67it/s]

12%| [REDACTED]

| 1306/10500 [00:22<02:39, 57.54it/s]

13%| [REDACTED]

| 1315/10500 [00:23<02:25, 63.16it/s]

13%| [REDACTED]

| 1322/10500 [00:23<02:24, 63.35it/s]

13%| [REDACTED]

| 1329/10500 [00:23<02:34, 59.52it/s]

13%| [REDACTED]

| 1336/10500 [00:23<03:05, 49.45it/s]

13%| [REDACTED]

| 1343/10500 [00:23<02:53, 52.76it/s]

13%| [REDACTED]

| 1350/10500 [00:23<02:40, 56.86it/s]

13%| [REDACTED]

| 1358/10500 [00:23<02:30, 60.87it/s]

13%| [REDACTED]

| 1365/10500 [00:24<02:41, 56.61it/s]

13%| [REDACTED]

| 1372/10500 [00:24<02:38, 57.58it/s]

13%| [REDACTED]

| 1379/10500 [00:24<02:39, 57.07it/s]

13%| [REDACTED]

| 1385/10500 [00:24<02:52, 52.91it/s]

13%| [REDACTED]

| 1392/10500 [00:24<02:47, 54.47it/s]

13%| [REDACTED]

| 1400/10500 [00:24<02:33, 59.47it/s]

13%| [REDACTED]

| 1408/10500 [00:24<02:24, 62.81it/s]

13%	1415/10500 [00:24<02:38, 57.24it/s]
14%	1422/10500 [00:24<02:39, 57.05it/s]
14%	1428/10500 [00:25<02:38, 57.32it/s]
14%	1435/10500 [00:25<02:39, 56.71it/s]
14%	1441/10500 [00:25<02:37, 57.64it/s]
14%	1450/10500 [00:25<02:24, 62.79it/s]
14%	1457/10500 [00:25<02:19, 64.75it/s]
14%	1464/10500 [00:25<02:39, 56.62it/s]
14%	1472/10500 [00:25<02:27, 61.16it/s]
14%	1479/10500 [00:25<02:42, 55.47it/s]
14%	1486/10500 [00:26<02:51, 52.42it/s]
14%	1493/10500 [00:26<02:42, 55.57it/s]
14%	1499/10500 [00:26<02:52, 52.14it/s]
14%	1506/10500 [00:26<02:39, 56.45it/s]
14%	1512/10500 [00:26<02:43, 54.97it/s]
14%	1519/10500 [00:26<02:36, 57.33it/s]
15%	1525/10500 [00:26<02:45, 54.33it/s]
15%	1532/10500 [00:26<02:38, 56.75it/s]
15%	1538/10500 [00:27<02:41, 55.34it/s]
15%	1546/10500 [00:27<02:30, 59.68it/s]
15%	1553/10500 [00:27<02:38, 56.38it/s]
15%	1559/10500 [00:27<02:39, 56.10it/s]
15%	1565/10500 [00:27<02:43, 54.61it/s]
15%	1571/10500 [00:27<02:43, 54.48it/s]
15%	1579/10500 [00:27<02:31, 58.83it/s]
15%	1586/10500 [00:27<02:37, 56.51it/s]
15%	1593/10500 [00:27<02:31, 58.94it/s]
15%	1600/10500 [00:28<02:32, 58.51it/s]

15%| [REDACTED]

| 1608/10500 [00:28<02:21, 62.78it/s]

15%| [REDACTED]

| 1615/10500 [00:28<03:01, 48.86it/s]

15%| [REDACTED]

| 1621/10500 [00:28<02:53, 51.12it/s]

15%| [REDACTED]

| 1627/10500 [00:28<02:49, 52.27it/s]

16%| [REDACTED]

| 1633/10500 [00:28<02:47, 52.84it/s]

16%| [REDACTED]

| 1641/10500 [00:28<02:39, 55.50it/s]

16%| [REDACTED]

| 1647/10500 [00:28<02:46, 53.06it/s]

16%| [REDACTED]

| 1653/10500 [00:29<02:51, 51.61it/s]

16%| [REDACTED]

| 1659/10500 [00:29<02:59, 49.27it/s]

16%| [REDACTED]

| 1665/10500 [00:29<02:50, 51.97it/s]

16%| [REDACTED]

| 1671/10500 [00:29<02:48, 52.48it/s]

16%| [REDACTED]

| 1678/10500 [00:29<02:41, 54.59it/s]

16%| [REDACTED]

| 1685/10500 [00:29<02:34, 57.20it/s]

16%| [REDACTED]

| 1693/10500 [00:29<02:24, 61.16it/s]

16%| [REDACTED]

| 1701/10500 [00:29<02:15, 64.73it/s]

16%| [REDACTED]

| 1709/10500 [00:29<02:08, 68.19it/s]

16%| [REDACTED]

| 1716/10500 [00:30<02:40, 54.57it/s]

16%| [REDACTED]

| 1722/10500 [00:30<02:43, 53.78it/s]

16%| [REDACTED]

| 1731/10500 [00:30<02:24, 60.64it/s]

17%| [REDACTED]

| 1738/10500 [00:30<02:28, 58.99it/s]

17%| [REDACTED]

| 1745/10500 [00:30<02:36, 55.96it/s]

17%| [REDACTED]

| 1752/10500 [00:30<02:27, 59.28it/s]

17%| [REDACTED]

| 1761/10500 [00:30<02:15, 64.66it/s]

17%| [REDACTED]

| 1768/10500 [00:30<02:19, 62.78it/s]

17%| [REDACTED]

| 1775/10500 [00:31<02:23, 60.79it/s]

17%| [REDACTED]

| 1782/10500 [00:31<02:18, 62.99it/s]

17%| [REDACTED]

| 1789/10500 [00:31<02:21, 61.73it/s]

17% [REDACTED]	1797/10500 [00:31<02:12, 65.66it/s]
17% [REDACTED]	1804/10500 [00:31<02:17, 63.33it/s]
17% [REDACTED]	1811/10500 [00:31<02:16, 63.47it/s]
17% [REDACTED]	1818/10500 [00:31<02:24, 59.99it/s]
17% [REDACTED]	1825/10500 [00:31<02:35, 55.96it/s]
17% [REDACTED]	1831/10500 [00:32<02:31, 57.06it/s]
17% [REDACTED]	1837/10500 [00:32<02:33, 56.45it/s]
18% [REDACTED]	1843/10500 [00:32<02:32, 56.94it/s]
18% [REDACTED]	1849/10500 [00:32<02:50, 50.76it/s]
18% [REDACTED]	1856/10500 [00:32<02:37, 54.93it/s]
18% [REDACTED]	1863/10500 [00:32<02:32, 56.50it/s]
18% [REDACTED]	1869/10500 [00:32<02:30, 57.45it/s]
18% [REDACTED]	1876/10500 [00:32<02:25, 59.18it/s]
18% [REDACTED]	1883/10500 [00:32<02:36, 55.05it/s]
18% [REDACTED]	1889/10500 [00:33<02:51, 50.26it/s]
18% [REDACTED]	1896/10500 [00:33<02:37, 54.68it/s]
18% [REDACTED]	1903/10500 [00:33<02:32, 56.45it/s]
18% [REDACTED]	1909/10500 [00:33<02:35, 55.29it/s]
18% [REDACTED]	1915/10500 [00:33<02:40, 53.49it/s]
18% [REDACTED]	1922/10500 [00:33<02:30, 57.18it/s]
18% [REDACTED]	1928/10500 [00:33<02:28, 57.87it/s]
18% [REDACTED]	1934/10500 [00:33<02:34, 55.42it/s]
18% [REDACTED]	1940/10500 [00:34<02:51, 49.84it/s]
19% [REDACTED]	1947/10500 [00:34<02:40, 53.25it/s]
19% [REDACTED]	1953/10500 [00:34<02:52, 49.54it/s]
19% [REDACTED]	1959/10500 [00:34<02:51, 49.77it/s]
19% [REDACTED]	1965/10500 [00:34<02:45, 51.63it/s]
19% [REDACTED]	1971/10500 [00:34<02:42, 52.48it/s]

19%	1977/10500 [00:34<02:37, 54.01it/s]
19%	1983/10500 [00:34<02:35, 54.70it/s]
19%	1990/10500 [00:34<02:28, 57.12it/s]
19%	1999/10500 [00:35<02:13, 63.61it/s]
19%	2006/10500 [00:35<02:26, 58.03it/s]
19%	2013/10500 [00:35<02:31, 56.05it/s]
19%	2020/10500 [00:35<02:29, 56.75it/s]
19%	2026/10500 [00:35<02:31, 56.12it/s]
19%	2032/10500 [00:35<02:34, 54.67it/s]
19%	2039/10500 [00:35<02:24, 58.50it/s]
19%	2045/10500 [00:35<02:25, 58.29it/s]
20%	2054/10500 [00:36<02:14, 62.85it/s]
20%	2061/10500 [00:36<02:20, 60.06it/s]
20%	2068/10500 [00:36<02:21, 59.65it/s]
20%	2077/10500 [00:36<02:08, 65.68it/s]
20%	2084/10500 [00:36<02:07, 66.02it/s]
20%	2091/10500 [00:36<02:22, 59.07it/s]
20%	2100/10500 [00:36<02:09, 65.05it/s]
20%	2108/10500 [00:36<02:06, 66.56it/s]
20%	2115/10500 [00:36<02:13, 63.04it/s]
20%	2122/10500 [00:37<02:21, 59.36it/s]
20%	2129/10500 [00:37<02:21, 59.01it/s]
20%	2136/10500 [00:37<02:32, 54.84it/s]
20%	2144/10500 [00:37<02:23, 58.28it/s]
20%	2150/10500 [00:37<02:22, 58.76it/s]
21%	2156/10500 [00:37<02:21, 59.11it/s]
21%	2162/10500 [00:37<02:32, 54.54it/s]

21%	2168/10500 [00:37<02:35, 53.59it/s]
21%	2174/10500 [00:38<02:49, 49.22it/s]
21%	2181/10500 [00:38<02:36, 53.20it/s]
21%	2188/10500 [00:38<02:25, 56.95it/s]
21%	2194/10500 [00:38<02:43, 50.83it/s]
21%	2200/10500 [00:38<02:41, 51.27it/s]
21%	2209/10500 [00:38<02:28, 55.68it/s]
21%	2217/10500 [00:38<02:17, 60.20it/s]
21%	2224/10500 [00:38<02:16, 60.56it/s]
21%	2231/10500 [00:39<02:14, 61.50it/s]
21%	2238/10500 [00:39<02:19, 59.03it/s]
21%	2247/10500 [00:39<02:07, 64.94it/s]
21%	2257/10500 [00:39<01:56, 71.02it/s]
22%	2265/10500 [00:39<02:21, 58.33it/s]
22%	2272/10500 [00:39<02:27, 55.84it/s]
22%	2279/10500 [00:39<02:21, 58.29it/s]
22%	2286/10500 [00:39<02:18, 59.21it/s]
22%	2293/10500 [00:40<02:22, 57.47it/s]
22%	2300/10500 [00:40<02:20, 58.31it/s]
22%	2307/10500 [00:40<02:13, 61.35it/s]
22%	2314/10500 [00:40<02:23, 57.00it/s]
22%	2321/10500 [00:40<02:17, 59.36it/s]
22%	2328/10500 [00:40<02:34, 53.03it/s]
22%	2335/10500 [00:40<02:25, 56.10it/s]
22%	2343/10500 [00:40<02:17, 59.23it/s]
22%	2351/10500 [00:41<02:10, 62.63it/s]
22%	2358/10500 [00:41<02:23, 56.58it/s]
23%	2364/10500 [00:41<02:25, 56.00it/s]

23%	2370/10500 [00:41<02:35, 52.13it/s]
23%	2377/10500 [00:41<02:27, 54.90it/s]
23%	2383/10500 [00:41<02:26, 55.44it/s]
23%	2389/10500 [00:41<02:24, 56.30it/s]
23%	2397/10500 [00:41<02:11, 61.41it/s]
23%	2404/10500 [00:41<02:17, 58.68it/s]
23%	2414/10500 [00:42<02:01, 66.46it/s]
23%	2422/10500 [00:42<01:58, 68.26it/s]
23%	2430/10500 [00:42<02:12, 60.68it/s]
23%	2437/10500 [00:42<02:17, 58.44it/s]
23%	2444/10500 [00:42<02:12, 60.93it/s]
23%	2452/10500 [00:42<02:04, 64.60it/s]
23%	2461/10500 [00:42<01:57, 68.27it/s]
24%	2469/10500 [00:42<02:05, 63.85it/s]
24%	2477/10500 [00:43<02:00, 66.49it/s]
24%	2484/10500 [00:43<02:07, 63.01it/s]
24%	2491/10500 [00:43<02:05, 63.59it/s]
24%	2498/10500 [00:43<02:35, 51.30it/s]
24%	2504/10500 [00:43<02:30, 53.10it/s]
24%	2510/10500 [00:43<02:26, 54.44it/s]
24%	2518/10500 [00:43<02:16, 58.27it/s]
24%	2526/10500 [00:43<02:07, 62.73it/s]
24%	2533/10500 [00:44<02:09, 61.51it/s]
24%	2540/10500 [00:44<02:06, 62.72it/s]
24%	2547/10500 [00:44<02:07, 62.39it/s]
24%	2554/10500 [00:44<02:08, 61.68it/s]
24%	2561/10500 [00:44<02:07, 62.25it/s]

24%	2568/10500 [00:44<02:28, 53.46it/s]
25%	2577/10500 [00:44<02:11, 60.12it/s]
25%	2584/10500 [00:44<02:10, 60.51it/s]
25%	2593/10500 [00:44<02:00, 65.69it/s]
25%	2600/10500 [00:45<02:04, 63.25it/s]
25%	2608/10500 [00:45<01:58, 66.34it/s]
25%	2615/10500 [00:45<01:59, 65.84it/s]
25%	2622/10500 [00:45<01:59, 66.09it/s]
25%	2629/10500 [00:45<02:00, 65.28it/s]
25%	2636/10500 [00:45<02:07, 61.49it/s]
25%	2645/10500 [00:45<01:57, 66.98it/s]
25%	2652/10500 [00:45<01:59, 65.91it/s]
25%	2659/10500 [00:45<02:01, 64.77it/s]
25%	2666/10500 [00:46<02:03, 63.26it/s]
25%	2673/10500 [00:46<02:18, 56.59it/s]
26%	2680/10500 [00:46<02:12, 58.95it/s]
26%	2687/10500 [00:46<02:12, 58.81it/s]
26%	2693/10500 [00:46<02:15, 57.67it/s]
26%	2700/10500 [00:46<02:13, 58.35it/s]
26%	2706/10500 [00:46<02:16, 57.03it/s]
26%	2712/10500 [00:46<02:29, 52.26it/s]
26%	2718/10500 [00:47<02:23, 54.32it/s]
26%	2725/10500 [00:47<02:13, 58.21it/s]
26%	2731/10500 [00:47<02:14, 57.78it/s]
26%	2737/10500 [00:47<02:12, 58.38it/s]
26%	2745/10500 [00:47<02:02, 63.32it/s]
26%	2755/10500 [00:47<01:53, 68.12it/s]
26%	2763/10500 [00:47<02:12, 58.51it/s]

26%	2772/10500 [00:47<02:02, 63.15it/s]
26%	2781/10500 [00:47<01:54, 67.25it/s]
27%	2789/10500 [00:48<02:00, 63.80it/s]
27%	2796/10500 [00:48<02:00, 63.87it/s]
27%	2804/10500 [00:48<01:55, 66.54it/s]
27%	2811/10500 [00:48<01:57, 65.30it/s]
27%	2821/10500 [00:48<01:46, 71.88it/s]
27%	2829/10500 [00:48<01:49, 70.26it/s]
27%	2837/10500 [00:48<01:50, 69.16it/s]
27%	2845/10500 [00:48<01:53, 67.62it/s]
27%	2853/10500 [00:49<01:53, 67.39it/s]
27%	2860/10500 [00:49<01:55, 66.27it/s]
27%	2867/10500 [00:49<01:59, 63.99it/s]
27%	2874/10500 [00:49<01:56, 65.54it/s]
27%	2881/10500 [00:49<01:54, 66.68it/s]
28%	2890/10500 [00:49<01:46, 71.66it/s]
28%	2900/10500 [00:49<01:40, 75.53it/s]
28%	2908/10500 [00:49<02:03, 61.47it/s]
28%	2915/10500 [00:49<02:04, 61.00it/s]
28%	2922/10500 [00:50<02:08, 59.04it/s]
28%	2929/10500 [00:50<02:13, 56.55it/s]
28%	2935/10500 [00:50<02:26, 51.58it/s]
28%	2942/10500 [00:50<02:15, 55.97it/s]
28%	2950/10500 [00:50<02:05, 60.16it/s]
28%	2957/10500 [00:50<02:04, 60.40it/s]
28%	2964/10500 [00:50<02:04, 60.46it/s]
28%	2971/10500 [00:50<02:12, 56.95it/s]

28%		2979/10500 [00:51<02:04, 60.63it/s]
28%		2986/10500 [00:51<01:59, 63.13it/s]
29%		2993/10500 [00:51<01:59, 63.06it/s]
29%		3000/10500 [00:51<02:36, 48.05it/s]
29%		3006/10500 [00:51<02:34, 48.62it/s]
29%		3012/10500 [00:51<02:30, 49.75it/s]
29%		3019/10500 [00:51<02:20, 53.23it/s]
29%		3029/10500 [00:51<02:02, 60.77it/s]
29%		3036/10500 [00:52<02:06, 59.16it/s]
29%		3043/10500 [00:52<02:00, 61.98it/s]
29%		3050/10500 [00:52<02:02, 60.91it/s]
29%		3058/10500 [00:52<01:54, 65.19it/s]
29%		3065/10500 [00:52<01:52, 66.38it/s]
29%		3076/10500 [00:52<01:39, 74.34it/s]
29%		3084/10500 [00:52<01:45, 69.98it/s]
29%		3092/10500 [00:52<02:03, 59.90it/s]
30%		3102/10500 [00:53<01:50, 66.70it/s]
30%		3111/10500 [00:53<01:45, 70.01it/s]
30%		3119/10500 [00:53<01:46, 69.21it/s]
30%		3127/10500 [00:53<01:55, 63.75it/s]
30%		3134/10500 [00:53<01:55, 63.94it/s]
30%		3141/10500 [00:53<01:57, 62.70it/s]
30%		3148/10500 [00:53<01:55, 63.89it/s]
30%		3156/10500 [00:53<01:50, 66.69it/s]
30%		3163/10500 [00:53<01:55, 63.45it/s]
30%		3170/10500 [00:54<02:09, 56.72it/s]
30%		3176/10500 [00:54<02:13, 54.72it/s]
30%		3182/10500 [00:54<02:12, 55.26it/s]

30%		3188/10500 [00:54<02:16, 53.41it/s]
30%		3195/10500 [00:54<02:10, 56.10it/s]
30%		3201/10500 [00:54<02:11, 55.63it/s]
31%		3207/10500 [00:54<02:15, 53.84it/s]
31%		3214/10500 [00:54<02:11, 55.61it/s]
31%		3220/10500 [00:55<02:19, 52.16it/s]
31%		3227/10500 [00:55<02:10, 55.58it/s]
31%		3234/10500 [00:55<02:08, 56.56it/s]
31%		3240/10500 [00:55<02:10, 55.67it/s]
31%		3246/10500 [00:55<02:18, 52.34it/s]
31%		3252/10500 [00:55<02:19, 51.93it/s]
31%		3258/10500 [00:55<02:20, 51.37it/s]
31%		3264/10500 [00:55<02:15, 53.42it/s]
31%		3274/10500 [00:55<01:57, 61.47it/s]
31%		3282/10500 [00:56<01:53, 63.86it/s]
31%		3290/10500 [00:56<01:50, 65.31it/s]
31%		3298/10500 [00:56<01:45, 68.39it/s]
31%		3306/10500 [00:56<01:45, 68.11it/s]
32%		3314/10500 [00:56<01:42, 69.96it/s]
32%		3322/10500 [00:56<01:42, 69.98it/s]
32%		3330/10500 [00:56<01:48, 66.19it/s]
32%		3337/10500 [00:56<01:49, 65.70it/s]
32%		3344/10500 [00:57<01:52, 63.53it/s]
32%		3351/10500 [00:57<01:50, 64.82it/s]
32%		3358/10500 [00:57<01:52, 63.55it/s]
32%		3366/10500 [00:57<01:47, 66.26it/s]
32%		3373/10500 [00:57<01:51, 63.72it/s]

32%		3380/10500 [00:57<02:00, 59.23it/s]
32%		3387/10500 [00:57<02:00, 59.15it/s]
32%		3393/10500 [00:57<02:08, 55.35it/s]
32%		3399/10500 [00:58<02:19, 51.08it/s]
32%		3405/10500 [00:58<02:20, 50.53it/s]
32%		3412/10500 [00:58<02:09, 54.90it/s]
33%		3420/10500 [00:58<01:59, 59.43it/s]
33%		3428/10500 [00:58<01:52, 63.07it/s]
33%		3435/10500 [00:58<02:03, 57.39it/s]
33%		3442/10500 [00:58<02:00, 58.80it/s]
33%		3449/10500 [00:58<02:09, 54.47it/s]
33%		3457/10500 [00:58<01:58, 59.53it/s]
33%		3464/10500 [00:59<01:53, 61.75it/s]
33%		3471/10500 [00:59<02:06, 55.61it/s]
33%		3477/10500 [00:59<02:05, 56.00it/s]
33%		3483/10500 [00:59<02:06, 55.66it/s]
33%		3490/10500 [00:59<02:03, 56.85it/s]
33%		3497/10500 [00:59<02:08, 54.62it/s]
33%		3504/10500 [00:59<02:06, 55.20it/s]
33%		3510/10500 [00:59<02:06, 55.17it/s]
33%		3516/10500 [01:00<02:06, 55.03it/s]
34%		3523/10500 [01:00<02:00, 58.11it/s]
34%		3529/10500 [01:00<02:11, 52.97it/s]
34%		3536/10500 [01:00<02:09, 53.76it/s]
34%		3544/10500 [01:00<01:59, 58.36it/s]
34%		3551/10500 [01:00<02:01, 57.26it/s]
34%		3557/10500 [01:00<02:25, 47.61it/s]
34%		3565/10500 [01:00<02:16, 50.89it/s]

34%|███████████

| 3572/10500 [01:01<02:12, 52.26it/s]

34%|███████████

| 3578/10500 [01:01<02:07, 54.35it/s]

34%|███████████

| 3586/10500 [01:01<01:54, 60.13it/s]

34%|███████████

| 3593/10500 [01:01<02:02, 56.19it/s]

34%|███████████

| 3599/10500 [01:01<02:01, 56.73it/s]

34%|███████████

| 3606/10500 [01:01<01:55, 59.71it/s]

34%|███████████

| 3615/10500 [01:01<01:45, 65.14it/s]

35%|███████████

| 3626/10500 [01:01<01:32, 74.22it/s]

35%|███████████

| 3635/10500 [01:01<01:31, 75.26it/s]

35%|███████████

| 3643/10500 [01:02<01:31, 74.85it/s]

35%|███████████

| 3651/10500 [01:02<01:41, 67.20it/s]

35%|███████████

| 3659/10500 [01:02<01:40, 68.19it/s]

35%|███████████

| 3667/10500 [01:02<01:41, 67.62it/s]

35%|███████████

| 3674/10500 [01:02<01:56, 58.71it/s]

35%|███████████

| 3681/10500 [01:02<02:00, 56.57it/s]

35%|███████████

| 3692/10500 [01:02<01:46, 64.03it/s]

35%|███████████

| 3699/10500 [01:02<01:46, 63.62it/s]

35%|███████████

| 3708/10500 [01:03<01:37, 69.47it/s]

35%|███████████

| 3716/10500 [01:03<01:38, 68.84it/s]

35%|███████████

| 3724/10500 [01:03<01:40, 67.20it/s]

36%|███████████

| 3733/10500 [01:03<01:35, 71.05it/s]

36%|███████████

| 3741/10500 [01:03<01:48, 62.34it/s]

36%|███████████

| 3749/10500 [01:03<01:42, 65.65it/s]

36%|███████████

| 3756/10500 [01:03<01:45, 63.92it/s]

36%|███████████

| 3763/10500 [01:03<01:45, 63.60it/s]

36%|███████████

| 3770/10500 [01:04<01:46, 62.92it/s]

36%|███████████

| 3777/10500 [01:04<01:53, 58.98it/s]

36%|███████████

| 3784/10500 [01:04<01:53, 58.98it/s]

36%		3784/10500 [01:04<01:52, 59.68it/s]
36%		3792/10500 [01:04<01:46, 63.05it/s]
36%		3799/10500 [01:04<01:50, 60.65it/s]
36%		3806/10500 [01:04<01:59, 55.85it/s]
36%		3815/10500 [01:04<01:46, 62.97it/s]
36%		3822/10500 [01:04<01:44, 63.95it/s]
36%		3829/10500 [01:04<01:46, 62.61it/s]
37%		3836/10500 [01:05<01:48, 61.31it/s]
37%		3843/10500 [01:05<01:51, 59.52it/s]
37%		3850/10500 [01:05<01:52, 59.05it/s]
37%		3856/10500 [01:05<01:56, 56.93it/s]
37%		3862/10500 [01:05<02:04, 53.26it/s]
37%		3870/10500 [01:05<01:53, 58.45it/s]
37%		3878/10500 [01:05<01:52, 58.61it/s]
37%		3885/10500 [01:05<02:01, 54.48it/s]
37%		3892/10500 [01:06<01:59, 55.10it/s]
37%		3898/10500 [01:06<02:01, 54.23it/s]
37%		3905/10500 [01:06<01:55, 57.35it/s]
37%		3911/10500 [01:06<01:55, 57.17it/s]
37%		3918/10500 [01:06<01:50, 59.46it/s]
37%		3925/10500 [01:06<01:57, 56.05it/s]
37%		3931/10500 [01:06<01:59, 55.17it/s]
38%		3939/10500 [01:06<01:49, 59.92it/s]
38%		3946/10500 [01:07<01:47, 61.01it/s]
38%		3953/10500 [01:07<01:58, 55.29it/s]
38%		3960/10500 [01:07<01:56, 56.15it/s]
38%		3966/10500 [01:07<02:07, 51.32it/s]
38%		3974/10500 [01:07<01:55, 56.34it/s]

38% ███████████	3980/10500 [01:07<02:03, 52.88it/s]
38% ███████████	3986/10500 [01:07<02:03, 52.56it/s]
38% ███████████	3993/10500 [01:07<01:54, 56.80it/s]
38% ███████████	4003/10500 [01:07<01:41, 63.99it/s]
38% ███████████	4010/10500 [01:08<01:50, 58.50it/s]
38% ███████████	4017/10500 [01:08<01:47, 60.52it/s]
38% ███████████	4024/10500 [01:08<01:42, 63.01it/s]
38% ███████████	4031/10500 [01:08<01:43, 62.58it/s]
38% ███████████	4038/10500 [01:08<01:50, 58.74it/s]
39% ███████████	4045/10500 [01:08<01:45, 61.06it/s]
39% ███████████	4052/10500 [01:08<01:55, 55.89it/s]
39% ███████████	4058/10500 [01:08<01:58, 54.40it/s]
39% ███████████	4064/10500 [01:09<02:07, 50.40it/s]
39% ███████████	4070/10500 [01:09<02:02, 52.41it/s]
39% ███████████	4076/10500 [01:09<01:59, 53.66it/s]
39% ███████████	4083/10500 [01:09<01:53, 56.30it/s]
39% ███████████	4090/10500 [01:09<01:56, 55.05it/s]
39% ███████████	4096/10500 [01:09<01:58, 53.98it/s]
39% ███████████	4102/10500 [01:09<01:57, 54.32it/s]
39% ███████████	4109/10500 [01:09<01:49, 58.14it/s]
39% ███████████	4116/10500 [01:09<01:45, 60.56it/s]
39% ███████████	4123/10500 [01:10<01:48, 58.59it/s]
39% ███████████	4129/10500 [01:10<01:59, 53.15it/s]
39% ███████████	4137/10500 [01:10<01:47, 59.07it/s]
39% ███████████	4145/10500 [01:10<01:39, 63.59it/s]
40% ███████████	4152/10500 [01:10<01:39, 63.49it/s]
40% ███████████	4159/10500 [01:10<01:44, 60.92it/s]
40% ███████████	4167/10500 [01:10<01:37, 61.88it/s]

40%		4167/10500 [01:10<01:37, 64.98it/s]
40%		4175/10500 [01:10<01:34, 67.14it/s]
40%		4183/10500 [01:11<01:33, 67.65it/s]
40%		4190/10500 [01:11<01:38, 64.25it/s]
40%		4198/10500 [01:11<01:34, 67.04it/s]
40%		4206/10500 [01:11<01:30, 69.66it/s]
40%		4214/10500 [01:11<01:29, 70.56it/s]
40%		4222/10500 [01:11<01:47, 58.67it/s]
40%		4229/10500 [01:11<01:43, 60.61it/s]
40%		4236/10500 [01:11<01:39, 62.65it/s]
40%		4243/10500 [01:12<01:46, 58.48it/s]
40%		4250/10500 [01:12<01:58, 52.69it/s]
41%		4256/10500 [01:12<01:57, 52.99it/s]
41%		4262/10500 [01:12<01:54, 54.36it/s]
41%		4268/10500 [01:12<01:56, 53.44it/s]
41%		4274/10500 [01:12<01:56, 53.24it/s]
41%		4282/10500 [01:12<01:46, 58.25it/s]
41%		4289/10500 [01:12<01:47, 58.03it/s]
41%		4295/10500 [01:12<01:49, 56.86it/s]
41%		4304/10500 [01:13<01:36, 63.89it/s]
41%		4311/10500 [01:13<01:44, 58.96it/s]
41%		4318/10500 [01:13<01:45, 58.81it/s]
41%		4326/10500 [01:13<01:41, 60.94it/s]
41%		4336/10500 [01:13<01:33, 66.27it/s]
41%		4343/10500 [01:13<01:41, 60.42it/s]
41%		4350/10500 [01:13<01:37, 62.97it/s]
41%		4357/10500 [01:13<01:47, 57.32it/s]
42%		4363/10500 [01:14<01:47, 56.83it/s]

42% ███████████	4372/10500 [01:14<01:38, 62.27it/s]
42% ███████████	4379/10500 [01:14<01:37, 62.89it/s]
42% ███████████	4386/10500 [01:14<01:34, 64.56it/s]
42% ███████████	4394/10500 [01:14<01:30, 67.19it/s]
42% ███████████	4403/10500 [01:14<01:25, 71.73it/s]
42% ███████████	4411/10500 [01:14<01:26, 70.01it/s]
42% ███████████	4419/10500 [01:14<01:32, 65.48it/s]
42% ███████████	4426/10500 [01:14<01:35, 63.65it/s]
42% ███████████	4433/10500 [01:15<01:36, 63.03it/s]
42% ███████████	4441/10500 [01:15<01:31, 66.27it/s]
42% ███████████	4448/10500 [01:15<01:36, 62.95it/s]
42% ███████████	4455/10500 [01:15<01:51, 54.34it/s]
42% ███████████	4461/10500 [01:15<01:49, 54.95it/s]
43% ███████████	4469/10500 [01:15<01:40, 60.14it/s]
43% ███████████	4477/10500 [01:15<01:32, 64.93it/s]
43% ███████████	4485/10500 [01:15<01:30, 66.13it/s]
43% ███████████	4492/10500 [01:16<01:42, 58.53it/s]
43% ███████████	4499/10500 [01:16<01:41, 59.41it/s]
43% ███████████	4509/10500 [01:16<01:31, 65.62it/s]
43% ███████████	4516/10500 [01:16<01:31, 65.15it/s]
43% ███████████	4523/10500 [01:16<01:41, 59.18it/s]
43% ███████████	4530/10500 [01:16<01:59, 50.02it/s]
43% ███████████	4536/10500 [01:16<01:55, 51.60it/s]
43% ███████████	4543/10500 [01:16<01:51, 53.63it/s]
43% ███████████	4549/10500 [01:17<01:51, 53.35it/s]
43% ███████████	4555/10500 [01:17<01:47, 55.18it/s]
43% ███████████	4562/10500 [01:17<01:40, 58.89it/s]
43% ███████████	4569/10500 [01:17<01:39, 59.89it/s]

44%		4569/10500 [01:17<01:39, 59.33it/s]
44%		4576/10500 [01:17<01:40, 59.03it/s]
44%		4582/10500 [01:17<01:49, 53.93it/s]
44%		4588/10500 [01:17<01:49, 54.12it/s]
44%		4596/10500 [01:17<01:38, 59.87it/s]
44%		4605/10500 [01:17<01:31, 64.29it/s]
44%		4612/10500 [01:18<01:58, 49.79it/s]
44%		4620/10500 [01:18<01:46, 55.28it/s]
44%		4627/10500 [01:18<01:39, 58.74it/s]
44%		4637/10500 [01:18<01:28, 66.23it/s]
44%		4645/10500 [01:18<01:36, 60.37it/s]
44%		4652/10500 [01:18<01:42, 56.84it/s]
44%		4660/10500 [01:18<01:36, 60.83it/s]
44%		4667/10500 [01:19<01:34, 61.61it/s]
45%		4674/10500 [01:19<01:42, 57.11it/s]
45%		4680/10500 [01:19<01:40, 57.92it/s]
45%		4687/10500 [01:19<01:36, 60.11it/s]
45%		4694/10500 [01:19<01:38, 58.99it/s]
45%		4701/10500 [01:19<01:52, 51.67it/s]
45%		4710/10500 [01:19<01:38, 58.61it/s]
45%		4717/10500 [01:19<01:33, 61.60it/s]
45%		4725/10500 [01:19<01:28, 65.22it/s]
45%		4732/10500 [01:20<01:26, 66.56it/s]
45%		4739/10500 [01:20<01:38, 58.42it/s]
45%		4747/10500 [01:20<01:32, 62.13it/s]
45%		4756/10500 [01:20<01:24, 67.67it/s]
45%		4764/10500 [01:20<01:34, 60.47it/s]
45%		4772/10500 [01:20<01:29, 63.69it/s]

46% ███████████	4779/10500 [01:20<01:33, 61.03it/s]
46% ███████████	4786/10500 [01:20<01:33, 60.79it/s]
46% ███████████	4793/10500 [01:21<01:31, 62.52it/s]
46% ███████████	4800/10500 [01:21<01:29, 63.76it/s]
46% ███████████	4807/10500 [01:21<01:41, 56.10it/s]
46% ███████████	4814/10500 [01:21<01:36, 59.16it/s]
46% ███████████	4821/10500 [01:21<01:37, 58.29it/s]
46% ███████████	4829/10500 [01:21<01:29, 63.20it/s]
46% ███████████	4836/10500 [01:21<01:38, 57.61it/s]
46% ███████████	4843/10500 [01:21<01:38, 57.46it/s]
46% ███████████	4849/10500 [01:22<01:39, 56.52it/s]
46% ███████████	4855/10500 [01:22<01:38, 57.45it/s]
46% ███████████	4861/10500 [01:22<01:47, 52.67it/s]
46% ███████████	4869/10500 [01:22<01:37, 57.48it/s]
46% ███████████	4876/10500 [01:22<01:35, 59.17it/s]
47% ███████████	4883/10500 [01:22<01:36, 58.36it/s]
47% ███████████	4891/10500 [01:22<01:30, 61.96it/s]
47% ███████████	4898/10500 [01:22<01:37, 57.62it/s]
47% ███████████	4908/10500 [01:22<01:26, 64.92it/s]
47% ███████████	4915/10500 [01:23<01:25, 65.25it/s]
47% ███████████	4922/10500 [01:23<01:39, 56.30it/s]
47% ███████████	4929/10500 [01:23<01:36, 57.46it/s]
47% ███████████	4936/10500 [01:23<01:39, 55.88it/s]
47% ███████████	4942/10500 [01:23<01:39, 55.99it/s]
47% ███████████	4948/10500 [01:23<01:48, 51.26it/s]
47% ███████████	4954/10500 [01:23<01:44, 53.06it/s]
47% ███████████	4960/10500 [01:23<01:44, 52.84it/s]
47% ███████████	4966/10500 [01:24<01:22, 52.15it/s]

47%	4969/10500 [01:24<01:33, 59.15it/s]
47%	4977/10500 [01:24<01:28, 62.70it/s]
48%	4984/10500 [01:24<01:36, 57.22it/s]
48%	4991/10500 [01:24<01:33, 58.97it/s]
48%	4998/10500 [01:24<01:34, 58.24it/s]
48%	5004/10500 [01:24<01:35, 57.29it/s]
48%	5010/10500 [01:24<01:37, 56.33it/s]
48%	5017/10500 [01:24<01:32, 59.42it/s]
48%	5024/10500 [01:25<01:39, 54.77it/s]
48%	5030/10500 [01:25<01:40, 54.45it/s]
48%	5037/10500 [01:25<01:33, 58.23it/s]
48%	5043/10500 [01:25<01:46, 51.47it/s]
48%	5049/10500 [01:25<01:41, 53.65it/s]
48%	5055/10500 [01:25<01:41, 53.53it/s]
48%	5063/10500 [01:25<01:31, 59.12it/s]
48%	5070/10500 [01:25<01:32, 58.41it/s]
48%	5078/10500 [01:25<01:26, 62.36it/s]
48%	5085/10500 [01:26<01:35, 56.67it/s]
48%	5091/10500 [01:26<01:41, 53.03it/s]
49%	5097/10500 [01:26<01:47, 50.25it/s]
49%	5103/10500 [01:26<01:53, 47.74it/s]
49%	5108/10500 [01:26<01:59, 45.06it/s]
49%	5115/10500 [01:26<01:49, 49.03it/s]
49%	5124/10500 [01:26<01:35, 56.10it/s]
49%	5131/10500 [01:26<01:42, 52.43it/s]
49%	5138/10500 [01:27<01:36, 55.85it/s]
49%	5146/10500 [01:27<01:27, 60.94it/s]
49%	5154/10500 [01:27<01:22, 64.59it/s]

49%		5161/10500 [01:27<01:23, 64.31it/s]
49%		5168/10500 [01:27<01:32, 57.76it/s]
49%		5175/10500 [01:27<01:28, 60.32it/s]
49%		5182/10500 [01:27<01:30, 58.79it/s]
49%		5189/10500 [01:27<01:38, 54.07it/s]
49%		5196/10500 [01:28<01:35, 55.77it/s]
50%		5202/10500 [01:28<01:44, 50.70it/s]
50%		5209/10500 [01:28<01:37, 54.00it/s]
50%		5218/10500 [01:28<01:27, 60.55it/s]
50%		5225/10500 [01:28<01:30, 58.39it/s]
50%		5232/10500 [01:28<01:35, 55.09it/s]
50%		5240/10500 [01:28<01:29, 58.62it/s]
50%		5247/10500 [01:28<01:29, 58.73it/s]
50%		5254/10500 [01:29<01:46, 49.32it/s]
50%		5260/10500 [01:29<01:41, 51.47it/s]
50%		5266/10500 [01:29<01:41, 51.46it/s]
50%		5276/10500 [01:29<01:27, 59.50it/s]
50%		5284/10500 [01:29<01:23, 62.69it/s]
50%		5291/10500 [01:29<01:24, 61.53it/s]
50%		5300/10500 [01:29<01:17, 67.26it/s]
51%		5308/10500 [01:29<01:27, 59.13it/s]
51%		5316/10500 [01:30<01:26, 59.83it/s]
51%		5323/10500 [01:30<01:28, 58.80it/s]
51%		5331/10500 [01:30<01:20, 63.87it/s]
51%		5339/10500 [01:30<01:17, 66.93it/s]
51%		5346/10500 [01:30<01:21, 63.39it/s]
51%		5353/10500 [01:30<01:29, 57.34it/s]
51%		5362/10500 [01:30<01:19, 65.71it/s]

51%	5363/10500 [01:30<01:18, 65.7 it/s]
51%	5378/10500 [01:31<01:33, 55.02it/s]
51%	5386/10500 [01:31<01:26, 59.13it/s]
51%	5394/10500 [01:31<01:21, 62.54it/s]
51%	5401/10500 [01:31<01:32, 55.32it/s]
52%	5408/10500 [01:31<01:32, 55.31it/s]
52%	5414/10500 [01:31<01:32, 55.12it/s]
52%	5422/10500 [01:31<01:24, 60.08it/s]
52%	5429/10500 [01:31<01:27, 58.02it/s]
52%	5436/10500 [01:32<01:25, 58.94it/s]
52%	5445/10500 [01:32<01:18, 64.45it/s]
52%	5452/10500 [01:32<01:20, 63.04it/s]
52%	5459/10500 [01:32<01:24, 59.31it/s]
52%	5466/10500 [01:32<01:21, 62.13it/s]
52%	5475/10500 [01:32<01:16, 65.56it/s]
52%	5482/10500 [01:32<01:22, 60.59it/s]
52%	5489/10500 [01:32<01:25, 58.42it/s]
52%	5495/10500 [01:33<01:28, 56.29it/s]
52%	5501/10500 [01:33<01:27, 57.23it/s]
52%	5507/10500 [01:33<01:29, 56.05it/s]
53%	5513/10500 [01:33<01:37, 51.29it/s]
53%	5519/10500 [01:33<01:45, 47.39it/s]
53%	5526/10500 [01:33<01:38, 50.36it/s]
53%	5534/10500 [01:33<01:28, 56.33it/s]
53%	5540/10500 [01:33<01:27, 56.46it/s]
53%	5547/10500 [01:33<01:24, 58.53it/s]
53%	5554/10500 [01:34<01:26, 57.09it/s]

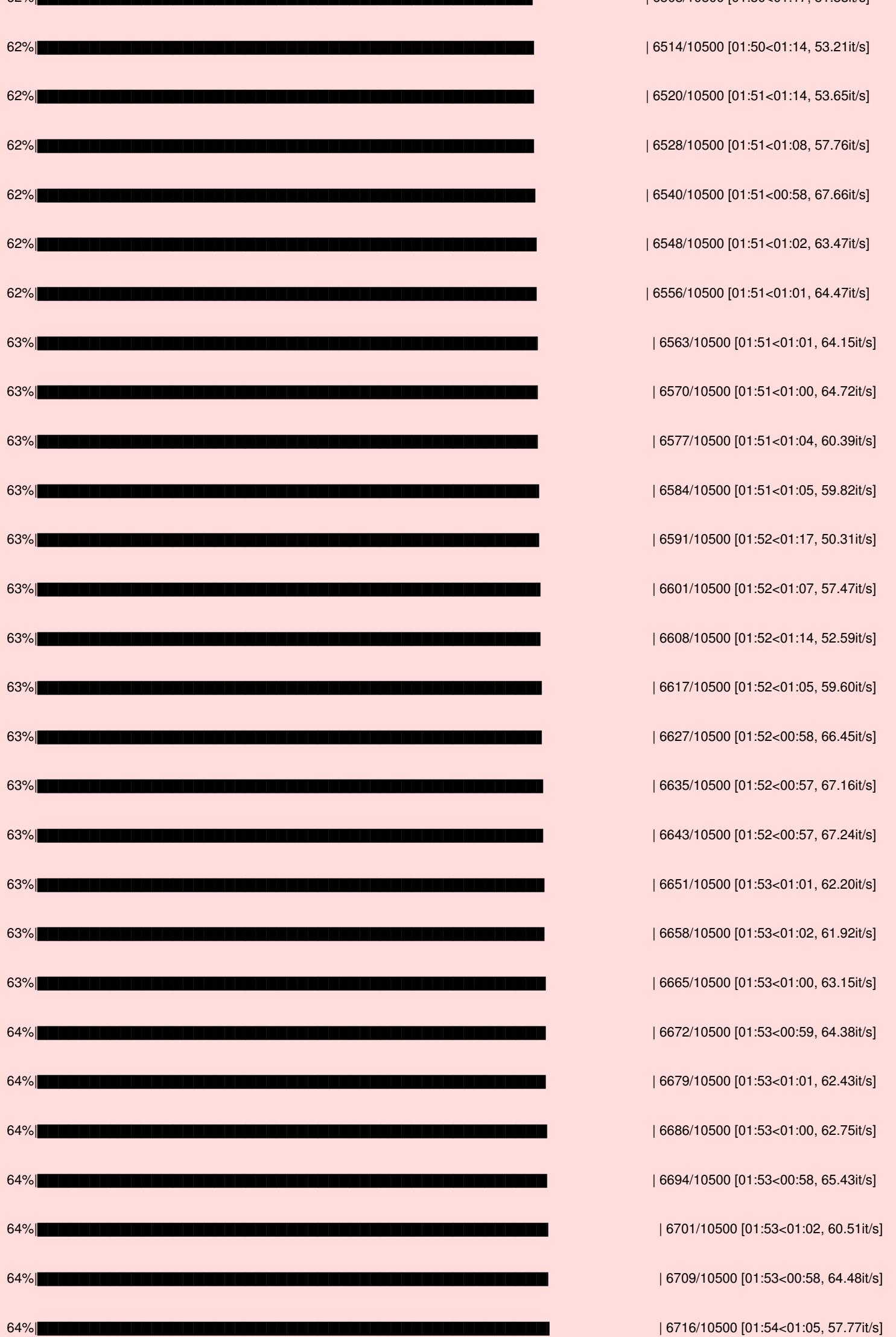
53%	5561/10500 [01:34<01:29, 55.29it/s]
53%	5569/10500 [01:34<01:21, 60.64it/s]
53%	5576/10500 [01:34<01:28, 55.38it/s]
53%	5582/10500 [01:34<01:28, 55.33it/s]
53%	5589/10500 [01:34<01:24, 57.95it/s]
53%	5597/10500 [01:34<01:18, 62.61it/s]
53%	5604/10500 [01:34<01:24, 57.84it/s]
53%	5611/10500 [01:35<01:23, 58.76it/s]
54%	5618/10500 [01:35<01:27, 55.74it/s]
54%	5624/10500 [01:35<01:28, 54.97it/s]
54%	5630/10500 [01:35<01:33, 52.04it/s]
54%	5637/10500 [01:35<01:29, 54.44it/s]
54%	5643/10500 [01:35<01:30, 53.43it/s]
54%	5649/10500 [01:35<01:33, 51.72it/s]
54%	5655/10500 [01:35<01:40, 48.04it/s]
54%	5663/10500 [01:36<01:30, 53.18it/s]
54%	5669/10500 [01:36<01:28, 54.87it/s]
54%	5675/10500 [01:36<01:26, 55.49it/s]
54%	5681/10500 [01:36<01:25, 56.57it/s]
54%	5687/10500 [01:36<01:29, 53.74it/s]
54%	5694/10500 [01:36<01:27, 54.96it/s]
54%	5700/10500 [01:36<01:33, 51.49it/s]
54%	5708/10500 [01:36<01:23, 57.57it/s]
54%	5715/10500 [01:37<01:28, 54.13it/s]
54%	5721/10500 [01:37<01:37, 49.02it/s]
55%	5727/10500 [01:37<01:35, 49.73it/s]
55%	5733/10500 [01:37<01:40, 47.59it/s]
55%	5738/10500 [01:37<01:42, 46.34it/s]

55%	5738/10500 [01:37<01:42, 48.34it/s]
55%	5746/10500 [01:37<01:31, 51.94it/s]
55%	5754/10500 [01:37<01:22, 57.28it/s]
55%	5761/10500 [01:37<01:31, 51.97it/s]
55%	5767/10500 [01:38<01:30, 52.11it/s]
55%	5774/10500 [01:38<01:23, 56.34it/s]
55%	5781/10500 [01:38<01:24, 55.81it/s]
55%	5787/10500 [01:38<01:37, 48.14it/s]
55%	5794/10500 [01:38<01:28, 53.03it/s]
55%	5800/10500 [01:38<01:27, 53.66it/s]
55%	5807/10500 [01:38<01:23, 55.94it/s]
55%	5815/10500 [01:38<01:17, 60.15it/s]
55%	5822/10500 [01:38<01:22, 56.88it/s]
56%	5828/10500 [01:39<01:21, 57.17it/s]
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56%	5842/10500 [01:39<01:15, 61.46it/s]
56%	5849/10500 [01:39<01:16, 60.54it/s]
56%	5857/10500 [01:39<01:12, 63.85it/s]
56%	5864/10500 [01:39<01:17, 59.46it/s]
56%	5871/10500 [01:39<01:20, 57.29it/s]
56%	5879/10500 [01:39<01:15, 61.61it/s]
56%	5886/10500 [01:40<01:15, 61.13it/s]
56%	5893/10500 [01:40<01:19, 58.14it/s]
56%	5900/10500 [01:40<01:16, 60.32it/s]
56%	5909/10500 [01:40<01:09, 66.38it/s]
56%	5916/10500 [01:40<01:17, 59.48it/s]
56%	5923/10500 [01:40<01:29, 51.36it/s]
56%	5930/10500 [01:40<01:22, 55.31it/s]

57%	5937/10500 [01:40<01:19, 57.52it/s]
57%	5944/10500 [01:41<01:26, 52.95it/s]
57%	5950/10500 [01:41<01:44, 43.61it/s]
57%	5956/10500 [01:41<01:37, 46.61it/s]
57%	5964/10500 [01:41<01:28, 51.46it/s]
57%	5970/10500 [01:41<01:30, 50.24it/s]
57%	5978/10500 [01:41<01:20, 55.93it/s]
57%	5985/10500 [01:41<01:19, 57.13it/s]
57%	5992/10500 [01:41<01:17, 58.24it/s]
57%	5999/10500 [01:42<01:16, 58.60it/s]
57%	6007/10500 [01:42<01:12, 62.27it/s]
57%	6014/10500 [01:42<01:12, 61.73it/s]
57%	6022/10500 [01:42<01:07, 66.15it/s]
57%	6029/10500 [01:42<01:10, 63.31it/s]
57%	6036/10500 [01:42<01:15, 59.28it/s]
58%	6043/10500 [01:42<01:17, 57.73it/s]
58%	6051/10500 [01:42<01:11, 62.15it/s]
58%	6058/10500 [01:43<01:15, 58.75it/s]
58%	6068/10500 [01:43<01:08, 64.46it/s]
58%	6075/10500 [01:43<01:10, 63.09it/s]
58%	6082/10500 [01:43<01:13, 60.39it/s]
58%	6092/10500 [01:43<01:06, 65.82it/s]
58%	6099/10500 [01:43<01:13, 59.59it/s]
58%	6106/10500 [01:43<01:21, 53.81it/s]
58%	6112/10500 [01:43<01:20, 54.37it/s]
58%	6118/10500 [01:44<01:23, 52.75it/s]
58%	6124/10500 [01:44<01:23, 52.34it/s]
58%	6130/10500 [01:44<01:22, 52.83it/s]

58%	6139/10500 [01:44<01:16, 57.18it/s]
59%	6146/10500 [01:44<01:12, 60.15it/s]
59%	6153/10500 [01:44<01:12, 59.57it/s]
59%	6160/10500 [01:44<01:14, 58.35it/s]
59%	6166/10500 [01:44<01:18, 54.93it/s]
59%	6172/10500 [01:44<01:19, 54.28it/s]
59%	6178/10500 [01:45<01:18, 55.37it/s]
59%	6184/10500 [01:45<01:22, 52.30it/s]
59%	6190/10500 [01:45<01:19, 54.22it/s]
59%	6197/10500 [01:45<01:17, 55.42it/s]
59%	6203/10500 [01:45<01:21, 52.82it/s]
59%	6209/10500 [01:45<01:19, 54.21it/s]
59%	6215/10500 [01:45<01:16, 55.80it/s]
59%	6223/10500 [01:45<01:11, 60.02it/s]
59%	6231/10500 [01:46<01:10, 60.44it/s]
59%	6238/10500 [01:46<01:16, 55.85it/s]
59%	6246/10500 [01:46<01:10, 60.26it/s]
60%	6253/10500 [01:46<01:11, 59.03it/s]
60%	6260/10500 [01:46<01:12, 58.80it/s]
60%	6266/10500 [01:46<01:14, 56.52it/s]
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60%	6279/10500 [01:46<01:11, 59.25it/s]
60%	6285/10500 [01:46<01:12, 58.33it/s]
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60%	6297/10500 [01:47<01:24, 49.91it/s]
60%	6304/10500 [01:47<01:19, 52.89it/s]
60%	6311/10500 [01:47<01:14, 56.22it/s]

60%	6318/10500 [01:47<01:10, 59.74it/s]
60%	6326/10500 [01:47<01:08, 61.13it/s]
60%	6333/10500 [01:47<01:09, 60.27it/s]
60%	6340/10500 [01:47<01:21, 51.13it/s]
60%	6347/10500 [01:48<01:18, 53.14it/s]
61%	6354/10500 [01:48<01:12, 57.26it/s]
61%	6361/10500 [01:48<01:12, 57.13it/s]
61%	6369/10500 [01:48<01:07, 60.96it/s]
61%	6376/10500 [01:48<01:07, 61.46it/s]
61%	6383/10500 [01:48<01:06, 61.49it/s]
61%	6390/10500 [01:48<01:05, 62.50it/s]
61%	6397/10500 [01:48<01:07, 60.61it/s]
61%	6406/10500 [01:48<01:02, 65.67it/s]
61%	6413/10500 [01:49<01:05, 62.62it/s]
61%	6421/10500 [01:49<01:04, 63.71it/s]
61%	6428/10500 [01:49<01:05, 62.05it/s]
61%	6435/10500 [01:49<01:09, 58.26it/s]
61%	6441/10500 [01:49<01:12, 55.71it/s]
61%	6449/10500 [01:49<01:07, 59.95it/s]
61%	6457/10500 [01:49<01:03, 64.14it/s]
62%	6464/10500 [01:49<01:11, 56.57it/s]
62%	6471/10500 [01:50<01:12, 55.43it/s]
62%	6477/10500 [01:50<01:14, 53.72it/s]
62%	6483/10500 [01:50<01:14, 53.96it/s]
62%	6489/10500 [01:50<01:18, 51.42it/s]
62%	6495/10500 [01:50<01:15, 52.96it/s]
62%	6502/10500 [01:50<01:11, 55.58it/s]
62%	6508/10500 [01:50<01:17, 51.83it/s]



64%	6725/10500 [01:54<00:58, 64.21it/s]
64%	6733/10500 [01:54<00:56, 67.10it/s]
64%	6741/10500 [01:54<00:58, 63.89it/s]
64%	6748/10500 [01:54<01:04, 58.35it/s]
64%	6755/10500 [01:54<01:03, 58.60it/s]
64%	6762/10500 [01:54<01:05, 56.86it/s]
64%	6771/10500 [01:54<01:00, 62.00it/s]
65%	6778/10500 [01:55<01:00, 61.48it/s]
65%	6785/10500 [01:55<01:02, 59.03it/s]
65%	6792/10500 [01:55<00:59, 61.88it/s]
65%	6799/10500 [01:55<00:59, 62.42it/s]
65%	6806/10500 [01:55<00:59, 62.07it/s]
65%	6813/10500 [01:55<01:02, 59.43it/s]
65%	6820/10500 [01:55<01:11, 51.75it/s]
65%	6826/10500 [01:55<01:09, 52.68it/s]
65%	6832/10500 [01:56<01:08, 53.34it/s]
65%	6839/10500 [01:56<01:04, 56.66it/s]
65%	6845/10500 [01:56<01:07, 54.53it/s]
65%	6853/10500 [01:56<01:02, 58.11it/s]
65%	6860/10500 [01:56<01:01, 59.15it/s]
65%	6867/10500 [01:56<00:58, 61.98it/s]
65%	6874/10500 [01:56<00:59, 60.78it/s]
66%	6881/10500 [01:56<00:58, 61.34it/s]
66%	6888/10500 [01:56<00:57, 62.30it/s]
66%	6895/10500 [01:57<00:59, 60.15it/s]
66%	6902/10500 [01:57<00:59, 60.52it/s]
66%	6909/10500 [01:57<01:06, 53.62it/s]
66%	6915/10500 [01:57<01:08, 52.37it/s]

66% [REDACTED]	6922/10500 [01:57<01:03, 56.09it/s]
66% [REDACTED]	6928/10500 [01:57<01:02, 57.19it/s]
66% [REDACTED]	6934/10500 [01:57<01:06, 53.93it/s]
66% [REDACTED]	6945/10500 [01:57<00:56, 62.59it/s]
66% [REDACTED]	6953/10500 [01:58<00:52, 66.95it/s]
66% [REDACTED]	6961/10500 [01:58<00:54, 65.26it/s]
66% [REDACTED]	6968/10500 [01:58<00:56, 62.99it/s]
66% [REDACTED] s]	6976/10500 [01:58<00:54, 64.93it/s]
67% [REDACTED] s]	6986/10500 [01:58<00:49, 71.07it/s]
67% [REDACTED] s]	6994/10500 [01:58<00:48, 71.57it/s]
67% [REDACTED] s]	7003/10500 [01:58<00:46, 75.08it/s]
67% [REDACTED] s]	7011/10500 [01:58<00:57, 60.82it/s]
67% [REDACTED] s]	7018/10500 [01:59<01:00, 57.14it/s]
67% [REDACTED] s]	7025/10500 [01:59<00:59, 58.31it/s]
67% [REDACTED] s]	7032/10500 [01:59<00:57, 59.80it/s]
67% [REDACTED] s]	7039/10500 [01:59<01:01, 56.60it/s]
67% [REDACTED] s]	7045/10500 [01:59<01:00, 57.46it/s]
67% [REDACTED] s]	7053/10500 [01:59<00:55, 61.92it/s]
67% [REDACTED] s]	7060/10500 [01:59<00:55, 61.76it/s]
67% [REDACTED] s]	7068/10500 [01:59<00:53, 64.61it/s]
67% [REDACTED] s]	7075/10500 [01:59<00:59, 57.95it/s]
67% [REDACTED] s]	7082/10500 [02:00<01:00, 56.69it/s]

68%||
s]

| 7088/10500 [02:00<01:05, 52.19it/

68%||
s]

| 7094/10500 [02:00<01:06, 51.02it/

68%||
s]

| 7100/10500 [02:00<01:08, 49.46it/

68%||
s]

| 7106/10500 [02:00<01:06, 51.00it/

68%||
/s]

| 7114/10500 [02:00<01:00, 56.35it/

68%||
/s]

| 7123/10500 [02:00<00:53, 62.97it/

68%||
/s]

| 7130/10500 [02:00<00:57, 58.30it/

68%||
/s]

| 7137/10500 [02:01<00:55, 60.47it/

68%||
/s]

| 7145/10500 [02:01<00:53, 63.13it/

68%||
/s]

| 7152/10500 [02:01<00:54, 61.61it/

68%||
/s]

| 7163/10500 [02:01<00:47, 69.76it/

68%||
/s]

| 7171/10500 [02:01<00:50, 65.39it/

68%||
/s]

| 7181/10500 [02:01<00:46, 71.34it/

68%||
/s]

| 7190/10500 [02:01<00:44, 74.14it/

69%||
/s]

| 7198/10500 [02:01<00:47, 69.83it/

69%||
/s]

| 7206/10500 [02:02<00:49, 66.37it/

69%||
/s]

| 7213/10500 [02:02<00:50, 64.67it/

69%||
/s]

| 7220/10500 [02:02<00:55, 58.75it/

69%||
/s]

| 7227/10500 [02:02<00:59, 55.21it/

69%||
/s]

| 7233/10500 [02:02<01:00, 54.01it/

69%||
/s]

| 7239/10500 [02:02<01:10, 45.95it/

69%||
t/s]

| 7248/10500 [02:02<01:00, 53.64i

69%||
t/s]

| 7255/10500 [02:02<00:59, 54.68i

69%||
t/s]

| 7262/10500 [02:03<00:59, 54.44i

69%||
t/s]

| 7268/10500 [02:03<00:59, 54.44i

69%||
t/s]

| 7274/10500 [02:03<01:00, 53.24i

69%||
t/s]

| 7280/10500 [02:03<00:58, 55.05i

69%||
t/s]

| 7287/10500 [02:03<00:55, 58.08i

69%||
t/s]

| 7293/10500 [02:03<00:54, 58.64i

70%||
t/s]

| 7299/10500 [02:03<00:56, 56.34i

70%||
t/s]

| 7306/10500 [02:03<00:54, 58.36i

70%||
t/s]

| 7313/10500 [02:03<00:53, 59.24i

70%||
t/s]

| 7319/10500 [02:04<00:55, 57.73i

70%||
t/s]

| 7326/10500 [02:04<00:52, 60.04i

70%||
t/s]

| 7333/10500 [02:04<00:54, 58.02i

70%||
t/s]

| 7340/10500 [02:04<00:53, 59.61i

70%||
t/s]

| 7348/10500 [02:04<00:49, 63.89i

70%||
t/s]

| 7355/10500 [02:04<00:55, 56.18i

70%||
t/s]

| 7362/10500 [02:04<00:53, 58.20i

70%||
t/s]

| 7369/10500 [02:04<00:53, 58.30i

70%||
t/s]

| 7375/10500 [02:05<00:54, 57.84i

70% 3it/s]	7382/10500 [02:05<00:52, 59.1
70% 5it/s]	7388/10500 [02:05<00:55, 56.3
70% 4it/s]	7394/10500 [02:05<00:57, 53.7
70% 2it/s]	7400/10500 [02:05<00:58, 53.0
71% 9it/s]	7406/10500 [02:05<01:01, 50.2
71% 1it/s]	7414/10500 [02:05<00:54, 56.5
71% 9it/s]	7420/10500 [02:05<00:58, 52.9
71% 3it/s]	7427/10500 [02:05<00:54, 56.3
71% 4it/s]	7435/10500 [02:06<00:50, 60.4
71% 4it/s]	7442/10500 [02:06<00:53, 56.8
71% 2it/s]	7449/10500 [02:06<00:51, 59.6
71% 7it/s]	7456/10500 [02:06<00:51, 59.2
71% 7it/s]	7463/10500 [02:06<00:52, 58.0
71% 0it/s]	7470/10500 [02:06<00:50, 59.9
71% 1it/s]	7479/10500 [02:06<00:46, 64.9
71% 4it/s]	7486/10500 [02:06<00:49, 61.1
71% 3it/s]	7493/10500 [02:07<00:52, 57.4
71% 7it/s]	7502/10500 [02:07<00:49, 61.1
72% 4it/s]	7511/10500 [02:07<00:45, 65.3
72% 08it/s]	7519/10500 [02:07<00:43, 69.
72% 47it/s]	7528/10500 [02:07<00:41, 72.

72%|
08it/s]

| 7536/10500 [02:07<00:43, 68.

72%|
64it/s]

| 7544/10500 [02:07<00:42, 69.

72%|
32it/s]

| 7552/10500 [02:07<00:41, 71.

72%|
85it/s]

| 7560/10500 [02:07<00:43, 66.

72%|
20it/s]

| 7567/10500 [02:08<00:50, 58.

72%|
10it/s]

| 7575/10500 [02:08<00:47, 62.

72%|
29it/s]

| 7582/10500 [02:08<00:47, 61.

72%|
15it/s]

| 7590/10500 [02:08<00:44, 65.

72%|
38it/s]

| 7597/10500 [02:08<00:47, 61.

72%|
32it/s]

| 7604/10500 [02:08<00:48, 60.

72%|
53it/s]

| 7611/10500 [02:08<00:47, 60.

73%|
26it/s]

| 7620/10500 [02:08<00:43, 66.

73%|
70it/s]

| 7627/10500 [02:09<00:45, 62.

73%|
50it/s]

| 7634/10500 [02:09<00:51, 55.

73%|
08it/s]

| 7640/10500 [02:09<00:50, 56.

73%|
22it/s]

| 7648/10500 [02:09<00:47, 60.

73%|
.34it/s]

| 7655/10500 [02:09<00:49, 57

73%|
.03it/s]

| 7661/10500 [02:09<00:54, 52

73%|
.06it/s]

| 7668/10500 [02:09<00:51, 55

73%|
.92it/s]

| 7674/10500 [02:09<00:53, 52

73%|
.21it/s]

| 7680/10500 [02:10<00:54, 52

.04it/s]		
73% .08it/s]		7687/10500 [02:10<00:51, 55
73% .39it/s]		7693/10500 [02:10<00:50, 55
73% .10it/s]		7702/10500 [02:10<00:45, 62
73% .59it/s]		7710/10500 [02:10<00:42, 65
73% .48it/s]		7717/10500 [02:10<00:47, 58
74% .33it/s]		7724/10500 [02:10<00:51, 54
74% .85it/s]		7732/10500 [02:10<00:47, 58
74% .83it/s]		7740/10500 [02:11<00:44, 61
74% .76it/s]		7748/10500 [02:11<00:42, 64
74% .36it/s]		7755/10500 [02:11<00:47, 58
74% .54it/s]		7762/10500 [02:11<00:48, 56
74% .28it/s]		7772/10500 [02:11<00:42, 64
74% .94it/s]		7780/10500 [02:11<00:41, 65
74% .01it/s]		7787/10500 [02:11<00:41, 66
74% 1.78it/s]		7794/10500 [02:11<00:43, 6
74% 4.69it/s]		7802/10500 [02:11<00:41, 6
74% 6.01it/s]		7809/10500 [02:12<00:48, 5
74% 5.60it/s]		7821/10500 [02:12<00:40, 6
75% 4.32it/s]		7829/10500 [02:12<00:41, 6
75% 0.68it/s]		7837/10500 [02:12<00:43, 6



76% 58.96it/s]	7995/10500 [02:15<00:42,
76% 53.94it/s]	8002/10500 [02:15<00:46,
76% 49.61it/s]	8008/10500 [02:15<00:50,
76% 53.89it/s]	8015/10500 [02:15<00:46,
76% 56.66it/s]	8022/10500 [02:15<00:43,
76% 61.42it/s]	8030/10500 [02:15<00:40,
77% 58.11it/s]	8037/10500 [02:15<00:42,
77% 61.91it/s]	8045/10500 [02:15<00:39,
77% 57.74it/s]	8052/10500 [02:16<00:42,
77% 57.41it/s]	8058/10500 [02:16<00:42,
77% 55.92it/s]	8064/10500 [02:16<00:43,
77% 55.46it/s]	8070/10500 [02:16<00:43,
77% 49.67it/s]	8076/10500 [02:16<00:48,
77% 52.31it/s]	8082/10500 [02:16<00:46,
77% 55.98it/s]	8090/10500 [02:16<00:43,
77% 58.95it/s]	8097/10500 [02:16<00:40,
77% 61.82it/s]	8105/10500 [02:17<00:38,
77% 68.12it/s]	8114/10500 [02:17<00:35,
77% 65.57it/s]	8122/10500 [02:17<00:36,
77% 65.95it/s]	8129/10500 [02:17<00:35,
78%	8138/10500 [02:17<00:33,

69.59it/s]

78% 69.45it/s]	8146/10500 [02:17<00:33,
78% 64.35it/s]	8154/10500 [02:17<00:36,
78% 61.49it/s]	8161/10500 [02:17<00:38,
78% 60.00it/s]	8168/10500 [02:18<00:38,
78% 61.65it/s]	8175/10500 [02:18<00:37,
78% 63.99it/s]	8183/10500 [02:18<00:36,
78% 59.68it/s]	8190/10500 [02:18<00:38,
78% 60.15it/s]	8197/10500 [02:18<00:38,
78% 7, 61.15it/s]	8204/10500 [02:18<00:3
78% 0, 56.48it/s]	8211/10500 [02:18<00:4
78% 3, 53.09it/s]	8217/10500 [02:18<00:4
78% 0, 56.53it/s]	8224/10500 [02:18<00:4
78% 2, 53.50it/s]	8230/10500 [02:19<00:4
78% 8, 58.11it/s]	8239/10500 [02:19<00:3
79% 9, 56.73it/s]	8246/10500 [02:19<00:3
79% 8, 58.75it/s]	8253/10500 [02:19<00:3
79% 9, 56.28it/s]	8260/10500 [02:19<00:3
79% 6, 60.85it/s]	8269/10500 [02:19<00:3
79% 4, 64.91it/s]	8277/10500 [02:19<00:3
79% 5, 61.80it/s]	8284/10500 [02:19<00:3

79% 6, 60.18it/s]	8291/10500 [02:20<00:3
79% 1, 53.09it/s]	8298/10500 [02:20<00:4
79% 9, 54.90it/s]	8306/10500 [02:20<00:3
79% 9, 55.44it/s]	8312/10500 [02:20<00:3
79% 6, 60.41it/s]	8320/10500 [02:20<00:3
79% 7, 57.33it/s]	8327/10500 [02:20<00:3
79% 7, 57.32it/s]	8333/10500 [02:20<00:3
79% 6, 59.55it/s]	8340/10500 [02:20<00:3
80% 5, 60.20it/s]	8349/10500 [02:21<00:3
80% 0, 52.84it/s]	8356/10500 [02:21<00:4
80% 7, 56.50it/s]	8363/10500 [02:21<00:3
80% 4, 61.53it/s]	8372/10500 [02:21<00:3
80% 6, 58.58it/s]	8379/10500 [02:21<00:3
80% 2, 64.45it/s]	8388/10500 [02:21<00:3
80% 5, 59.30it/s]	8395/10500 [02:21<00:3
80% 5, 59.37it/s]	8402/10500 [02:21<00:3
80% 7, 56.40it/s]	8409/10500 [02:22<00:3
80% 3, 61.34it/s]	8417/10500 [02:22<00:3
80% 3, 62.23it/s]	8424/10500 [02:22<00:3
80% 0, 68.46it/s]	8433/10500 [02:22<00:3
80% 9, 70.29it/s]	8441/10500 [02:22<00:2

80% [9, 69.04it/s]	8449/10500 [02:22<00:2
81% [8, 70.62it/s]	8457/10500 [02:22<00:2
81% [5, 80.29it/s]	8469/10500 [02:22<00:2
81% [23, 84.34it/s]	8479/10500 [02:22<00:
81% [28, 71.64it/s]	8488/10500 [02:23<00:
81% [29, 68.29it/s]	8496/10500 [02:23<00:
81% [34, 58.51it/s]	8504/10500 [02:23<00:
81% [38, 51.09it/s]	8511/10500 [02:23<00:
81% [37, 52.91it/s]	8517/10500 [02:23<00:
81% [35, 56.24it/s]	8524/10500 [02:23<00:
81% [35, 55.42it/s]	8530/10500 [02:23<00:
81% [32, 60.95it/s]	8538/10500 [02:24<00:
81% [36, 53.57it/s]	8545/10500 [02:24<00:
81% [36, 53.19it/s]	8551/10500 [02:24<00:
82% [31, 61.06it/s]	8561/10500 [02:24<00:
82% [31, 60.42it/s]	8568/10500 [02:24<00:
82% [33, 56.92it/s]	8575/10500 [02:24<00:
82% [33, 57.10it/s]	8582/10500 [02:24<00:
82% [38, 49.27it/s]	8588/10500 [02:24<00:
82% [35, 53.49it/s]	8595/10500 [02:25<00:
82% [8602/10500 [02:25<00:

32% 34, 55.42it/s]	8602/10500 [02:25<0
82% 0:31, 60.19it/s]	8610/10500 [02:25<0
82% 0:33, 56.16it/s]	8617/10500 [02:25<0
82% 0:32, 57.06it/s]	8623/10500 [02:25<0
82% 0:32, 57.13it/s]	8629/10500 [02:25<0
82% 0:32, 57.51it/s]	8635/10500 [02:25<0
82% 0:28, 64.39it/s]	8644/10500 [02:25<0
82% 0:30, 60.99it/s]	8651/10500 [02:25<0
82% 0:27, 67.40it/s]	8660/10500 [02:26<0
83% 0:26, 68.61it/s]	8668/10500 [02:26<0
83% 0:26, 68.53it/s]	8676/10500 [02:26<0
83% 0:31, 58.49it/s]	8684/10500 [02:26<0
83% 0:32, 55.05it/s]	8691/10500 [02:26<0
83% 0:34, 52.63it/s]	8697/10500 [02:26<0
83% 0:30, 58.30it/s]	8705/10500 [02:26<0
83% 0:29, 60.39it/s]	8712/10500 [02:26<0
83% 0:29, 60.43it/s]	8719/10500 [02:27<0
83% 0:31, 56.82it/s]	8726/10500 [02:27<0
83% 0:27, 64.02it/s]	8736/10500 [02:27<0
83% 0:28, 62.26it/s]	8743/10500 [02:27<0
83% 0:28, 61.94it/s]	8750/10500 [02:27<

83%|[
00:30, 57.00it/s]

| 8757/10500 [02:27<

83%|[
00:31, 54.68it/s]

| 8763/10500 [02:27<

84%|[
00:29, 58.24it/s]

| 8770/10500 [02:27<

84%|[
00:28, 61.06it/s]

| 8777/10500 [02:28<

84%|[
00:33, 51.62it/s]

| 8784/10500 [02:28<

84%|[
00:34, 50.02it/s]

| 8790/10500 [02:28<

84%|[
00:32, 51.66it/s]

| 8796/10500 [02:28<

84%|[
00:31, 53.66it/s]

| 8803/10500 [02:28<

84%|[
00:31, 53.68it/s]

| 8809/10500 [02:28<

84%|[
00:30, 55.16it/s]

| 8815/10500 [02:28<

84%|[
00:32, 51.58it/s]

| 8821/10500 [02:28<

84%|[
00:31, 52.44it/s]

| 8827/10500 [02:29<

84%|[
00:33, 50.41it/s]

| 8833/10500 [02:29<

84%|[
00:30, 53.75it/s]

| 8840/10500 [02:29<

84%|[
00:29, 56.37it/s]

| 8847/10500 [02:29<

84%|[
00:28, 57.41it/s]

| 8853/10500 [02:29<

84%|[
00:30, 52.94it/s]

| 8859/10500 [02:29<

84%|[
00:30, 53.42it/s]

| 8865/10500 [02:29<

84%|[
00:28, 56.66it/s]

| 8872/10500 [02:29<

85%|[
00:26, 61.66it/s]

| 8880/10500 [02:29<

85%|[
<00:26, 60.83it/s]

| 8887/10500 [02:30

85% [<0:25, 62.52it/s]	8895/10500 [02:30
85% [<0:26, 60.38it/s]	8902/10500 [02:30
85% [<0:25, 63.04it/s]	8910/10500 [02:30
85% [<0:25, 62.67it/s]	8917/10500 [02:30
85% [<0:23, 65.99it/s]	8925/10500 [02:30
85% [<0:23, 66.43it/s]	8932/10500 [02:30
85% [<0:26, 58.83it/s]	8939/10500 [02:30
85% [<0:27, 56.45it/s]	8946/10500 [02:31
85% [<0:25, 59.93it/s]	8953/10500 [02:31
85% [<0:25, 60.37it/s]	8960/10500 [02:31
85% [<0:28, 53.57it/s]	8967/10500 [02:31
85% [<0:28, 53.74it/s]	8973/10500 [02:31
86% [<0:27, 55.02it/s]	8979/10500 [02:31
86% [<0:28, 53.25it/s]	8985/10500 [02:31
86% [<0:28, 52.68it/s]	8992/10500 [02:31
86% [<0:25, 58.98it/s]	9001/10500 [02:31
86% [<0:23, 63.44it/s]	9009/10500 [02:32
86% [<0:24, 60.31it/s]	9016/10500 [02:32
86% [<0:24, 59.62it/s]	9023/10500 [02:32
86% [<0:26, 55.12it/s]	9030/10500 [02:32

86% <00:23, 61.52it/s]	9039/10500 [02:32
86% <00:23, 62.15it/s]	9046/10500 [02:32
86% <00:21, 67.02it/s]	9055/10500 [02:32
86% <00:21, 66.07it/s]	9062/10500 [02:32
86% <00:23, 61.49it/s]	9069/10500 [02:33
86% <00:23, 61.56it/s]	9076/10500 [02:33
87% <00:22, 63.02it/s]	9083/10500 [02:33
87% <00:23, 60.88it/s]	9090/10500 [02:33
87% <00:24, 57.13it/s]	9097/10500 [02:33
87% <00:24, 56.25it/s]	9103/10500 [02:33
87% <00:24, 56.27it/s]	9109/10500 [02:33
87% <00:23, 58.58it/s]	9116/10500 [02:33
87% <00:22, 60.80it/s]	9123/10500 [02:33
87% <00:25, 54.41it/s]	9130/10500 [02:34
87% <00:23, 58.02it/s]	9138/10500 [02:34
87% <00:23, 58.07it/s]	9144/10500 [02:34
87% <00:22, 58.88it/s]	9151/10500 [02:34
87% 4<00:23, 56.84it/s]	9157/10500 [02:3
87% 4<00:23, 57.73it/s]	9163/10500 [02:3
87% 4<00:22, 58.38it/s]	9170/10500 [02:3
87% 4<00:23, 56.51it/s]	9176/10500 [02:3



37<00:20, 58.02it/s]

89%| [REDACTED] | 9327/10500 [02:
37<00:21, 55.05it/s]

89%| [REDACTED] | 9335/10500 [02:
37<00:19, 60.72it/s]

89%| [REDACTED] | 9342/10500 [02:
37<00:19, 59.69it/s]

89%| [REDACTED] | 9349/10500 [02:
37<00:19, 57.82it/s]

89%| [REDACTED] | 9356/10500 [02:
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89%| [REDACTED] | 9366/10500 [02:
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89%| [REDACTED] | 9373/10500 [02:
38<00:17, 65.82it/s]

89%| [REDACTED] | 9381/10500 [02:
38<00:17, 65.52it/s]

89%| [REDACTED] | 9388/10500 [02:
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90%| [REDACTED] | 9402/10500 [02:
38<00:18, 60.16it/s]

90%| [REDACTED] | 9409/10500 [02:
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90%| [REDACTED] | 9416/10500 [02:
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90%| [REDACTED] | 9423/10500 [02:
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90%| [REDACTED] | 9430/10500 [02:
39<00:18, 56.80it/s]

90%| [REDACTED] | 9437/10500 [02:
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90%| [REDACTED] | 9449/10500 [02:
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90%| [REDACTED] | 9456/10500 [02:
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90%| [REDACTED] | 9463/10500 [02:
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90% :40<00:16, 59.61it/s]	9492/10500 [02
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91% :40<00:16, 59.42it/s]	9506/10500 [02
91% :40<00:18, 54.06it/s]	9512/10500 [02
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91% :40<00:17, 56.52it/s]	9526/10500 [02
91% :40<00:17, 54.36it/s]	9532/10500 [02
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91% :41<00:20, 47.73it/s]	9544/10500 [02
91% :41<00:18, 50.97it/s]	9551/10500 [02
91% :41<00:17, 54.92it/s]	9558/10500 [02
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91% 2:41<00:15, 57.99it/s]	9580/10500 [0
91% 2:41<00:14, 62.58it/s]	9588/10500 [0
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91% 2:42<00:15, 56.03it/s]	9607/10500 [0

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93% 02:44<00:14, 54.45it/s]	9730/10500 [
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93% 02:44<00:13, 55.76it/s]	9742/10500 [
93% 02:44<00:14, 53.37it/s]	9748/10500 [
93%	9755/10500 [

02:44<00:13, 56.94it/s]

93%| 9763/10500 [
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93%| 9771/10500 [
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93%| 9779/10500 [
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93%| 9786/10500 [
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93%| 9817/10500 [
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94%| 9823/10500 [
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94%| 9832/10500 [
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94%| 9855/10500 [
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94%| 9871/10500 [
02:46<00:09, 66.39it/s]

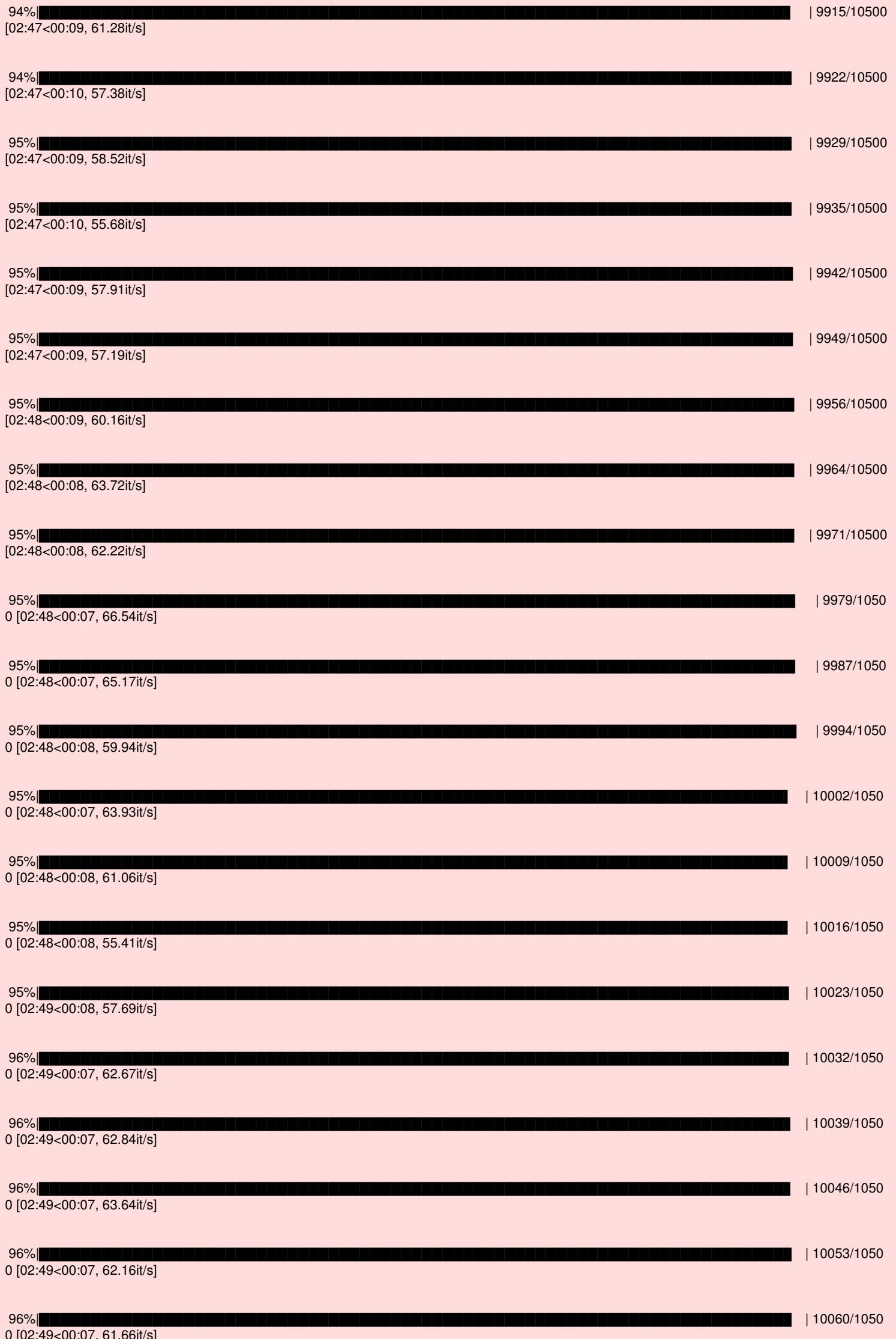
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94%| 9901/10500 [
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96%| 10067/1050
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97%| 10136/1050
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97%| 10144/1050
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97%| 10151/1050
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97%| 10172/1050
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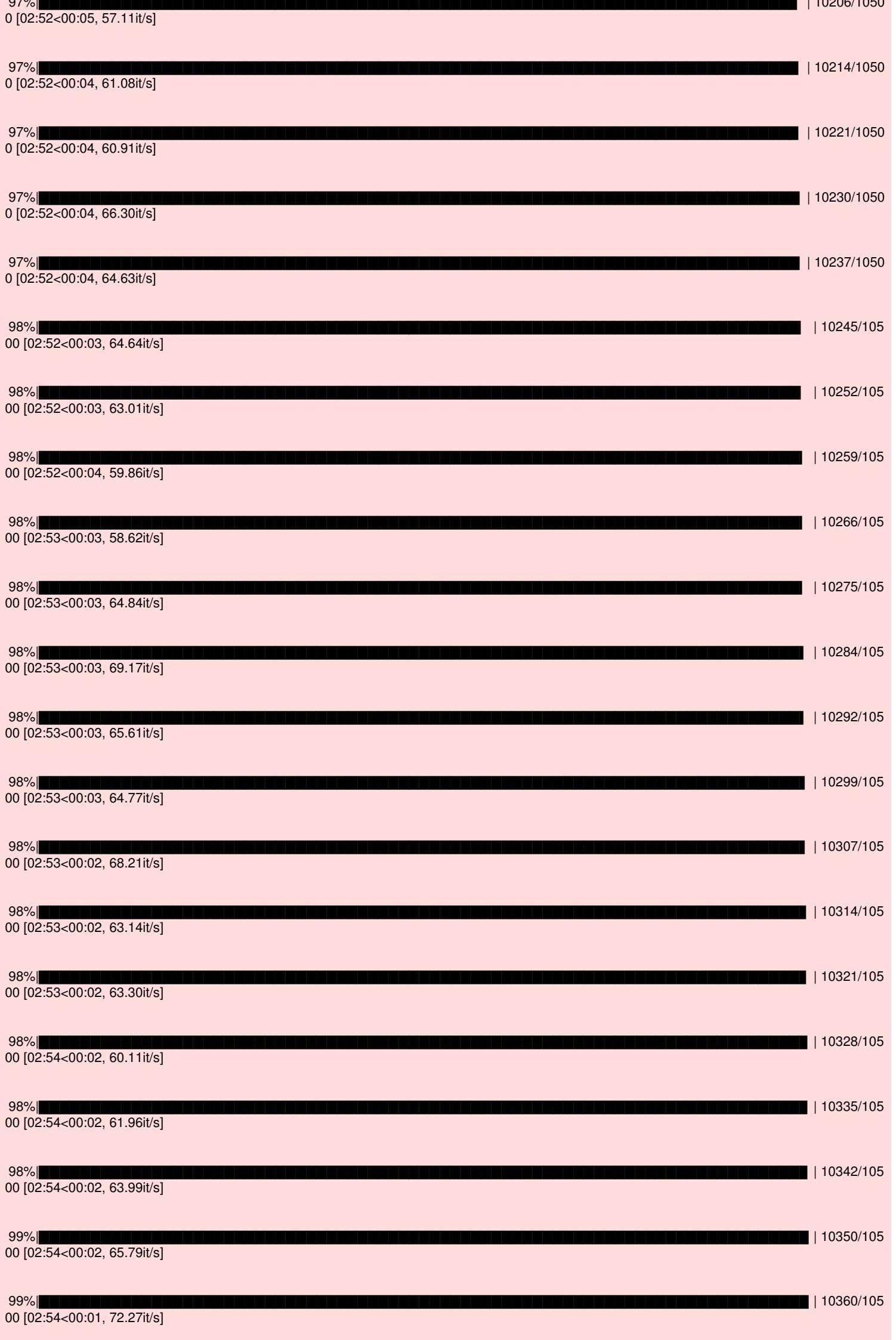
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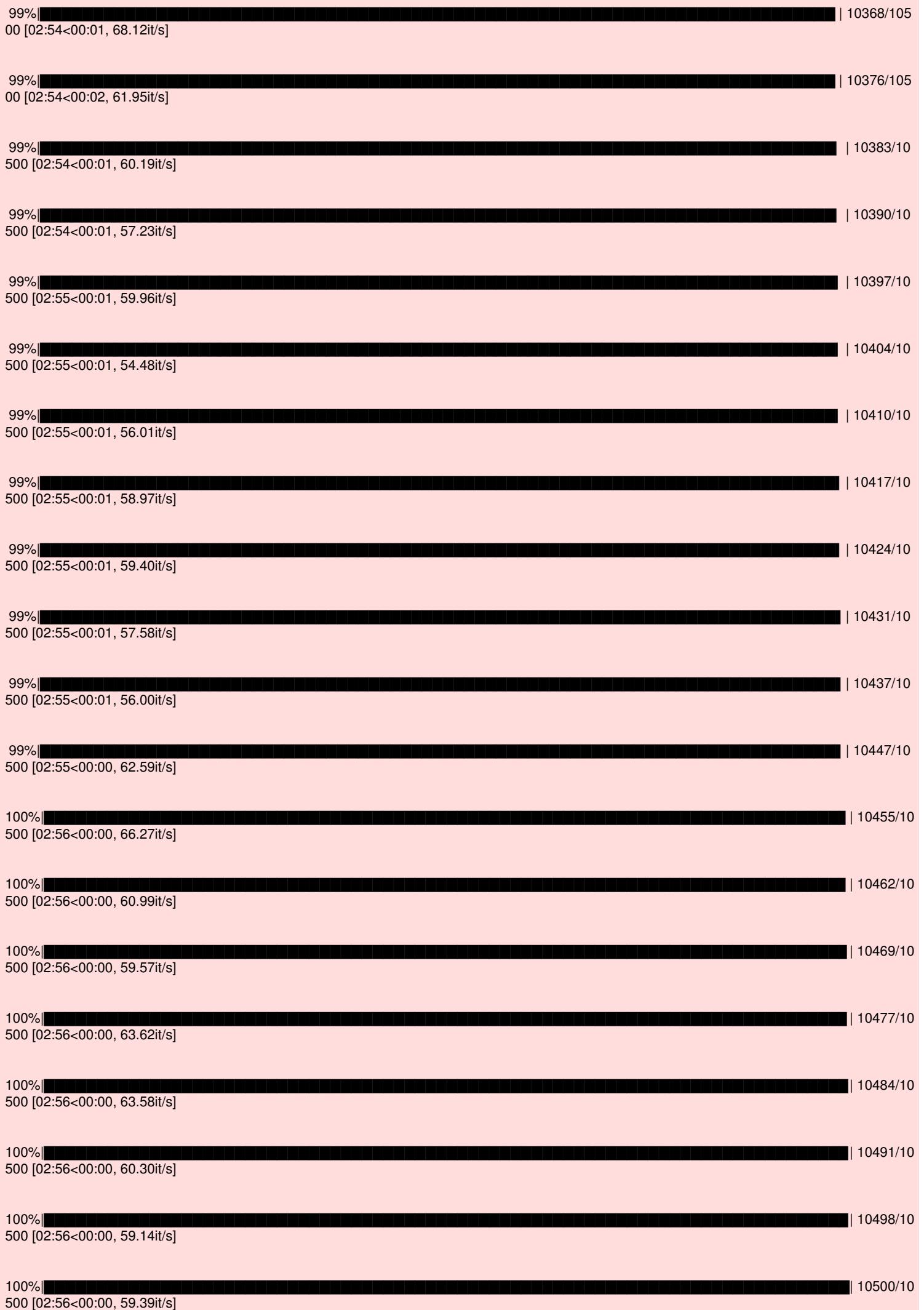
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97%| 10193/1050
0 [02:51<00:05, 59.57it/s]

97%| 10200/1050
0 [02:52<00:05, 56.80it/s]

97%| 10206/1050





In [314]:

```
tfidf_w2v_vectors_essay_test = [] # the avg-w2v for each sentence/review is stored in this list
for sentence in tqdm(X_test_df['Preprocessed_Essay'].values): # for each review/sentence
    vector = np.zeros(50) # as word vectors are of zero length
    tf_idf_weight = 0; # num of words with a valid vector in the sentence/review
    for word in sentence.split(): # for each word in a review/sentence
        if (word in w2v_words1) and (word in tfidf_words2):
            vec = w2v_model1[word] # getting the vector for each word
            # here we are multiplying idf value(dictionary[word]) and the tf value((sentence.count(word)/len(sentence.split())))
            tf_idf = dictionary2[word]*(sentence.count(word)/len(sentence.split())) # getting the tfidf value for each word
            vector += (vec * tf_idf) # calculating tfidf weighted w2v
            tf_idf_weight += tf_idf
    if tf_idf_weight != 0:
        vector /= tf_idf_weight
    tfidf_w2v_vectors_essay_test.append(vector)

print(len(tfidf_w2v_vectors_essay_test))
print(len(tfidf_w2v_vectors_essay_test[0]))
```

0%| 0/15000 [00:00<?, ?it/s]

0%| 9/15000 [00:00<03:07, 79.86it/s]

0%| 14/15000 [00:00<03:58, 62.95it/s]

0%| 17/15000 [00:00<05:17, 47.18it/s]

0%| 23/15000 [00:00<05:08, 48.49it/s]

0%|| 30/15000 [00:00<05:11, 48.07it/s]

0%|| 36/15000 [00:00<04:59, 50.00it/s]

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| 125/15000 [00:02<04:07, 60.16it/s]

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1%| | 173/15000 [00:03<04:33, 54.29it/s]

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1%| | 188/15000 [00:03<04:33, 54.18it/s]

1%| | 194/15000 [00:03<04:26, 55.51it/s]

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1%| | 209/15000 [00:03<04:00, 61.59it/s]

1%| | 216/15000 [00:03<04:17, 57.47it/s]

1%| | 222/15000 [00:03<04:32, 54.16it/s]

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2%| | 235/15000 [00:04<04:45, 51.68it/s]

2%| | 241/15000 [00:04<05:30, 44.70it/s]

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2%| | 319/15000 [00:05<04:23, 55.78it/s]

| 325/15000 [00:05<04:27, 54.84it/s]

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| 343/15000 [00:06<04:31, 54.00it/s]

| 350/15000 [00:06<04:15, 57.30it/s]

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| 367/15000 [00:06<03:35, 68.01it/s]

| 375/15000 [00:06<03:49, 63.78it/s]

| 382/15000 [00:06<03:43, 65.38it/s]

| 389/15000 [00:06<03:51, 63.09it/s]

| 396/15000 [00:06<03:46, 64.34it/s]

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| 411/15000 [00:07<03:39, 66.32it/s]

| 418/15000 [00:07<04:17, 56.72it/s]

| 425/15000 [00:07<04:02, 60.04it/s]

| 432/15000 [00:07<04:13, 57.41it/s]

| 439/15000 [00:07<04:03, 59.80it/s]

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| 455/15000 [00:07<03:56, 61.51it/s]

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| 470/15000 [00:08<03:54, 61.85it/s]

| 477/15000 [00:08<04:05, 59.21it/s]

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| 499/15000 [00:08<04:01, 59.95it/s]

| 506/15000 [00:08<04:21, 55.49it/s]

| 514/15000 [00:08<04:01, 59.91it/s]

| 521/15000 [00:09<04:10, 57.71it/s]

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4% [■]	535/15000 [00:09<03:57, 60.82it/s]
4% [■]	542/15000 [00:09<04:15, 56.61it/s]
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4% [■]	555/15000 [00:09<04:05, 58.95it/s]
4% [■]	561/15000 [00:09<04:20, 55.51it/s]
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4% [■]	574/15000 [00:09<04:21, 55.07it/s]
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4% [■]	625/15000 [00:10<04:01, 59.64it/s]
4% [■]	632/15000 [00:10<03:59, 59.90it/s]
4% [■]	639/15000 [00:11<04:00, 59.62it/s]
4% [■]	646/15000 [00:11<04:08, 57.81it/s]
4% [■]	657/15000 [00:11<03:36, 66.22it/s]
4% [■]	665/15000 [00:11<03:47, 63.12it/s]
4% [■]	673/15000 [00:11<03:43, 64.04it/s]
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5% [■]	694/15000 [00:11<04:10, 57.14it/s]
5% [■]	701/15000 [00:12<04:04, 58.43it/s]
5% [■]	708/15000 [00:12<04:03, 58.77it/s]
5% [■]	714/15000 [00:12<04:26, 53.71it/s]

5%|█████ | 722/15000 [00:12<04:14, 56.07it/s]

5%|█████ | 728/15000 [00:12<04:25, 53.78it/s]

5%|█████ | 734/15000 [00:12<04:21, 54.63it/s]

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5%|█████ | 761/15000 [00:13<04:19, 54.93it/s]

5%|█████ | 768/15000 [00:13<04:08, 57.27it/s]

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5%|█████ | 797/15000 [00:13<03:38, 64.99it/s]

5%|█████ | 804/15000 [00:13<04:13, 56.10it/s]

5%|█████ | 810/15000 [00:14<04:47, 49.36it/s]

5%|█████ | 816/15000 [00:14<04:37, 51.11it/s]

5%|█████ | 824/15000 [00:14<04:08, 57.11it/s]

6%|█████ | 831/15000 [00:14<04:07, 57.23it/s]

6%|█████ | 838/15000 [00:14<04:11, 56.22it/s]

6%|█████ | 846/15000 [00:14<03:51, 61.24it/s]

6%|█████ | 853/15000 [00:14<03:43, 63.25it/s]

6%|█████ | 860/15000 [00:14<04:03, 58.04it/s]

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6%|█████ | 875/15000 [00:15<03:48, 61.69it/s]

6%|█████ | 882/15000 [00:15<03:48, 61.80it/s]

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6%|█████ | 896/15000 [00:15<04:04, 57.58it/s]

6%|█████ | 904/15000 [00:15<03:47, 61.97it/s]

6%|█████ | 911/15000 [00:15<03:53, 60.22it/s]

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6% [██████] | 918/15000 [00:15<04:06, 57.22it/s]

6% [██████] | 924/15000 [00:15<04:09, 56.52it/s]

6% [██████] | 930/15000 [00:15<04:06, 57.07it/s]

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6% [██████] | 942/15000 [00:16<04:20, 53.91it/s]

6% [██████] | 950/15000 [00:16<04:05, 57.15it/s]

6% [██████] | 958/15000 [00:16<03:46, 61.92it/s]

6% [██████] | 967/15000 [00:16<03:37, 64.55it/s]

6% [██████] | 974/15000 [00:16<04:02, 57.89it/s]

7% [██████] | 982/15000 [00:16<03:47, 61.69it/s]

7% [██████] | 991/15000 [00:16<03:27, 67.50it/s]

7% [██████] | 999/15000 [00:17<03:33, 65.53it/s]

7% [██████] | 1006/15000 [00:17<03:33, 65.68it/s]

7% [██████] | 1013/15000 [00:17<03:46, 61.64it/s]

7% [██████] | 1020/15000 [00:17<03:44, 62.25it/s]

7% [██████] | 1027/15000 [00:17<03:42, 62.67it/s]

7% [██████] | 1034/15000 [00:17<03:50, 60.67it/s]

7% [██████] | 1041/15000 [00:17<03:58, 58.62it/s]

7% [██████] | 1047/15000 [00:17<04:09, 55.94it/s]

7% [██████] | 1053/15000 [00:18<04:04, 56.98it/s]

7% [██████] | 1060/15000 [00:18<03:57, 58.58it/s]

7% [██████] | 1066/15000 [00:18<03:56, 58.94it/s]

7% [██████] | 1074/15000 [00:18<03:44, 62.10it/s]

7% [██████] | 1081/15000 [00:18<03:55, 59.12it/s]

7% [██████] | 1088/15000 [00:18<03:49, 60.61it/s]

7% [██████] | 1095/15000 [00:18<03:56, 58.90it/s]

7% [██████] | 1103/15000 [00:18<03:45, 61.71it/s]

7%|███████ | 1111/15000 [00:18<03:36, 64.07it/s]

7%|███████ | 1118/15000 [00:19<04:14, 54.59it/s]

8%|███████ | 1126/15000 [00:19<03:57, 58.52it/s]

8%|███████ | 1133/15000 [00:19<03:50, 60.17it/s]

8%|███████ | 1145/15000 [00:19<03:22, 68.37it/s]

8%|███████ | 1153/15000 [00:19<03:36, 64.00it/s]

8%|███████ | 1160/15000 [00:19<03:52, 59.40it/s]

8%|███████ | 1168/15000 [00:19<03:37, 63.66it/s]

8%|███████ | 1176/15000 [00:19<03:26, 66.86it/s]

8%|███████ | 1183/15000 [00:20<03:24, 67.70it/s]

8%|███████ | 1190/15000 [00:20<04:05, 56.22it/s]

8%|███████ | 1198/15000 [00:20<03:43, 61.71it/s]

8%|███████ | 1205/15000 [00:20<03:45, 61.29it/s]

8%|███████ | 1213/15000 [00:20<03:34, 64.37it/s]

8%|███████ | 1220/15000 [00:20<04:10, 55.06it/s]

8%|███████ | 1226/15000 [00:20<04:06, 55.90it/s]

8%|███████ | 1234/15000 [00:20<03:47, 60.53it/s]

8%|███████ | 1242/15000 [00:21<03:40, 62.33it/s]

8%|███████ | 1249/15000 [00:21<03:59, 57.37it/s]

8%|███████ | 1257/15000 [00:21<03:42, 61.84it/s]

8%|███████ | 1264/15000 [00:21<04:00, 57.12it/s]

8%|███████ | 1271/15000 [00:21<03:51, 59.29it/s]

9%|███████ | 1280/15000 [00:21<03:37, 63.12it/s]

9%|███████ | 1287/15000 [00:21<04:30, 50.68it/s]

9%|███████ | 1293/15000 [00:21<04:19, 52.91it/s]

9%|███████ | 1299/15000 [00:22<04:18, 52.98it/s]

9%|███████ | 1305/15000 [00:22<04:16, 53.48it/s]

9%|███████ | 1311/15000 [00:22<04:12, 54.13it/s]

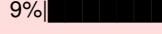
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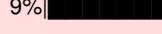
| 1323/15000 [00:22<04:25, 51.56it/s]



| 1330/15000 [00:22<04:05, 55.62it/s]



| 1338/15000 [00:22<03:46, 60.42it/s]



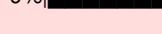
| 1345/15000 [00:22<03:59, 57.07it/s]



| 1352/15000 [00:23<04:03, 56.06it/s]



| 1358/15000 [00:23<04:02, 56.20it/s]



| 1364/15000 [00:23<04:14, 53.63it/s]



| 1371/15000 [00:23<04:05, 55.51it/s]



| 1377/15000 [00:23<04:09, 54.63it/s]



| 1383/15000 [00:23<04:27, 50.94it/s]



| 1391/15000 [00:23<04:03, 55.98it/s]



| 1399/15000 [00:23<03:41, 61.52it/s]



| 1406/15000 [00:23<03:58, 56.98it/s]



| 1412/15000 [00:24<04:05, 55.29it/s]



| 1420/15000 [00:24<03:47, 59.58it/s]



| 1427/15000 [00:24<03:44, 60.54it/s]



| 1435/15000 [00:24<03:31, 64.09it/s]



| 1442/15000 [00:24<03:28, 64.93it/s]



| 1449/15000 [00:24<03:45, 60.12it/s]



| 1456/15000 [00:24<03:43, 60.61it/s]



| 1465/15000 [00:24<03:24, 66.23it/s]



| 1472/15000 [00:25<03:46, 59.70it/s]



| 1479/15000 [00:25<03:36, 62.44it/s]



| 1487/15000 [00:25<03:25, 65.87it/s]



| 1494/15000 [00:25<03:28, 64.67it/s]



| 1502/15000 [00:25<03:25, 65.72it/s]

10%	1509/15000 [00:25<04:01, 55.78it/s]
10%	1515/15000 [00:25<04:27, 50.37it/s]
10%	1521/15000 [00:25<04:29, 50.05it/s]
10%	1529/15000 [00:26<04:11, 53.48it/s]
10%	1535/15000 [00:26<04:24, 50.96it/s]
10%	1541/15000 [00:26<04:27, 50.33it/s]
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10%	1556/15000 [00:26<03:54, 57.38it/s]
10%	1562/15000 [00:26<03:57, 56.54it/s]
10%	1568/15000 [00:26<04:19, 51.78it/s]
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11%	1582/15000 [00:26<03:50, 58.19it/s]
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11%	1637/15000 [00:27<03:52, 57.47it/s]
11%	1643/15000 [00:28<04:02, 55.05it/s]
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11%	1702/15000 [00:28<03:22, 65.56it/s]
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12%	1784/15000 [00:30<03:35, 61.30it/s]
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12%	1797/15000 [00:30<04:06, 53.49it/s]
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12%	1828/15000 [00:31<03:54, 56.12it/s]
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12%	1840/15000 [00:31<04:05, 53.57it/s]
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12%	1853/15000 [00:31<04:13, 51.93it/s]
12%	1859/15000 [00:31<04:11, 52.18it/s]
12%	1865/15000 [00:31<04:11, 52.29it/s]
12%	1871/15000 [00:32<04:15, 51.29it/s]

13%| [REDACTED] | 1877/15000 [00:32<04:08, 52.82it/s]

13%| [REDACTED] | 1883/15000 [00:32<04:16, 51.06it/s]

13%| [REDACTED] | 1890/15000 [00:32<03:56, 55.47it/s]

13%| [REDACTED] | 1896/15000 [00:32<04:10, 52.21it/s]

13%| [REDACTED] | 1902/15000 [00:32<04:05, 53.36it/s]

13%| [REDACTED] | 1908/15000 [00:32<03:58, 54.97it/s]

13%| [REDACTED] | 1917/15000 [00:32<03:34, 60.85it/s]

13%| [REDACTED] | 1927/15000 [00:33<03:13, 67.61it/s]

13%| [REDACTED] | 1935/15000 [00:33<03:16, 66.36it/s]

13%| [REDACTED] | 1942/15000 [00:33<03:32, 61.42it/s]

13%| [REDACTED] | 1951/15000 [00:33<03:16, 66.33it/s]

13%| [REDACTED] | 1962/15000 [00:33<02:56, 73.94it/s]

13%| [REDACTED] | 1970/15000 [00:33<02:57, 73.28it/s]

13%| [REDACTED] | 1978/15000 [00:33<03:31, 61.59it/s]

13%| [REDACTED] | 1986/15000 [00:33<03:20, 65.07it/s]

13%| [REDACTED] | 1993/15000 [00:34<03:41, 58.68it/s]

13%| [REDACTED] | 2003/15000 [00:34<03:15, 66.49it/s]

13%| [REDACTED] | 2011/15000 [00:34<03:23, 63.89it/s]

13%| [REDACTED] | 2018/15000 [00:34<03:22, 64.04it/s]

14%| [REDACTED] | 2025/15000 [00:34<03:30, 61.53it/s]

14%| [REDACTED] | 2032/15000 [00:34<03:24, 63.55it/s]

14%| [REDACTED] | 2039/15000 [00:34<03:29, 61.94it/s]

14%| [REDACTED] | 2047/15000 [00:34<03:24, 63.39it/s]

14%| [REDACTED] | 2054/15000 [00:34<03:46, 57.21it/s]

14%| [REDACTED] | 2063/15000 [00:35<03:21, 64.23it/s]

14%| [REDACTED] | 2070/15000 [00:35<04:13, 51.04it/s]

14%| [REDACTED] | 2076/15000 [00:35<04:20, 49.56it/s]

14%| [REDACTED] | 2082/15000 [00:35<04:50, 44.46it/s]

14%	2087/15000 [00:35<04:49, 44.68it/s]
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14%	2099/15000 [00:35<04:38, 46.37it/s]
14%	2105/15000 [00:36<04:19, 49.75it/s]
14%	2111/15000 [00:36<04:34, 47.01it/s]
14%	2116/15000 [00:36<04:29, 47.82it/s]
14%	2121/15000 [00:36<04:30, 47.68it/s]
14%	2126/15000 [00:36<04:41, 45.70it/s]
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14%	2160/15000 [00:37<04:26, 48.09it/s]
14%	2166/15000 [00:37<04:43, 45.21it/s]
14%	2171/15000 [00:37<04:42, 45.43it/s]
15%	2178/15000 [00:37<04:25, 48.32it/s]
15%	2183/15000 [00:37<04:54, 43.54it/s]
15%	2189/15000 [00:37<04:33, 46.81it/s]
15%	2196/15000 [00:38<04:06, 51.89it/s]
15%	2202/15000 [00:38<04:10, 51.09it/s]
15%	2208/15000 [00:38<04:00, 53.29it/s]
15%	2217/15000 [00:38<03:38, 58.45it/s]
15%	2224/15000 [00:38<03:46, 56.49it/s]
15%	2232/15000 [00:38<03:26, 61.70it/s]
15%	2240/15000 [00:38<03:18, 64.22it/s]
15%	2248/15000 [00:38<03:11, 66.61it/s]

15%	███████████	2255/15000 [00:38<03:33, 59.70it/s]
15%	███████████	2262/15000 [00:39<03:33, 59.79it/s]
15%	███████████	2269/15000 [00:39<03:34, 59.24it/s]
15%	███████████	2276/15000 [00:39<03:44, 56.59it/s]
15%	███████████	2283/15000 [00:39<03:38, 58.14it/s]
15%	███████████	2289/15000 [00:39<04:18, 49.22it/s]
15%	███████████	2297/15000 [00:39<03:49, 55.33it/s]
15%	███████████	2303/15000 [00:39<03:47, 55.90it/s]
15%	███████████	2309/15000 [00:39<03:45, 56.16it/s]
15%	███████████	2316/15000 [00:40<03:46, 55.89it/s]
15%	███████████	2322/15000 [00:40<04:04, 51.93it/s]
16%	███████████	2328/15000 [00:40<04:09, 50.79it/s]
16%	███████████	2334/15000 [00:40<04:06, 51.43it/s]
16%	███████████	2341/15000 [00:40<03:50, 54.87it/s]
16%	███████████	2347/15000 [00:40<03:46, 55.88it/s]
16%	███████████	2354/15000 [00:40<03:39, 57.58it/s]
16%	███████████	2362/15000 [00:40<03:23, 62.00it/s]
16%	███████████	2369/15000 [00:40<03:27, 60.85it/s]
16%	███████████	2377/15000 [00:41<03:21, 62.55it/s]
16%	███████████	2384/15000 [00:41<03:31, 59.63it/s]
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16%	███████████	2405/15000 [00:41<03:27, 60.75it/s]
16%	███████████	2412/15000 [00:41<03:40, 57.06it/s]
16%	███████████	2418/15000 [00:41<03:37, 57.90it/s]
16%	███████████	2424/15000 [00:41<04:02, 51.84it/s]
16%	███████████	2430/15000 [00:42<04:15, 49.26it/s]
16%	███████████	2436/15000 [00:42<04:22, 47.82it/s]

16% [REDACTED]	2443/15000 [00:42<04:00, 52.11it/s]
16% [REDACTED]	2449/15000 [00:42<03:51, 54.24it/s]
16% [REDACTED]	2456/15000 [00:42<03:37, 57.63it/s]
16% [REDACTED]	2462/15000 [00:42<03:53, 53.60it/s]
16% [REDACTED]	2468/15000 [00:42<03:57, 52.72it/s]
17% [REDACTED]	2476/15000 [00:42<03:38, 57.28it/s]
17% [REDACTED]	2482/15000 [00:43<03:47, 54.91it/s]
17% [REDACTED]	2489/15000 [00:43<03:47, 55.05it/s]
17% [REDACTED]	2497/15000 [00:43<03:35, 58.13it/s]
17% [REDACTED]	2503/15000 [00:43<03:34, 58.22it/s]
17% [REDACTED]	2509/15000 [00:43<03:43, 55.88it/s]
17% [REDACTED]	2519/15000 [00:43<03:19, 62.69it/s]
17% [REDACTED]	2526/15000 [00:43<03:12, 64.67it/s]
17% [REDACTED]	2533/15000 [00:43<03:29, 59.44it/s]
17% [REDACTED]	2540/15000 [00:43<03:28, 59.73it/s]
17% [REDACTED]	2547/15000 [00:44<03:40, 56.47it/s]
17% [REDACTED]	2553/15000 [00:44<03:42, 55.87it/s]
17% [REDACTED]	2559/15000 [00:44<03:50, 53.98it/s]
17% [REDACTED]	2567/15000 [00:44<03:32, 58.47it/s]
17% [REDACTED]	2574/15000 [00:44<03:48, 54.37it/s]
17% [REDACTED]	2580/15000 [00:44<03:54, 53.00it/s]
17% [REDACTED]	2586/15000 [00:44<03:46, 54.71it/s]
17% [REDACTED]	2592/15000 [00:44<03:53, 53.24it/s]
17% [REDACTED]	2598/15000 [00:45<03:50, 53.75it/s]
17% [REDACTED]	2606/15000 [00:45<03:29, 59.03it/s]
17% [REDACTED]	2613/15000 [00:45<03:28, 59.54it/s]
17% [REDACTED]	2620/15000 [00:45<03:26, 60.01it/s]

18%		2627/15000 [00:45<03:41, 55.85it/s]
18%		2635/15000 [00:45<03:23, 60.85it/s]
18%		2642/15000 [00:45<03:34, 57.67it/s]
18%		2651/15000 [00:45<03:15, 63.27it/s]
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18%		2672/15000 [00:46<03:32, 57.89it/s]
18%		2678/15000 [00:46<03:30, 58.47it/s]
18%		2684/15000 [00:46<03:32, 58.08it/s]
18%		2690/15000 [00:46<03:33, 57.74it/s]
18%		2700/15000 [00:46<03:09, 64.89it/s]
18%		2707/15000 [00:46<03:15, 62.81it/s]
18%		2716/15000 [00:46<02:58, 68.96it/s]
18%		2724/15000 [00:46<03:04, 66.53it/s]
18%		2731/15000 [00:47<03:31, 57.88it/s]
18%		2739/15000 [00:47<03:20, 61.14it/s]
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18%		2753/15000 [00:47<03:25, 59.53it/s]
18%		2760/15000 [00:47<03:32, 57.47it/s]
18%		2767/15000 [00:47<03:24, 59.80it/s]
18%		2774/15000 [00:47<03:20, 60.85it/s]
19%		2781/15000 [00:47<03:23, 60.12it/s]
19%		2788/15000 [00:48<03:30, 58.05it/s]
19%		2794/15000 [00:48<03:48, 53.32it/s]
19%		2801/15000 [00:48<03:35, 56.57it/s]
19%		2810/15000 [00:48<03:15, 62.50it/s]
19%		2819/15000 [00:48<02:58, 68.08it/s]
19%		2827/15000 [00:48<03:09, 64.39it/s]

19% ███████████	2835/15000 [00:48<03:01, 66.89it/s]
19% ███████████	2842/15000 [00:48<03:08, 64.50it/s]
19% ███████████	2849/15000 [00:49<03:19, 60.84it/s]
19% ███████████	2856/15000 [00:49<03:32, 57.14it/s]
19% ███████████	2862/15000 [00:49<03:35, 56.38it/s]
19% ███████████	2868/15000 [00:49<03:42, 54.41it/s]
19% ███████████	2876/15000 [00:49<03:21, 60.15it/s]
19% ███████████	2883/15000 [00:49<03:20, 60.55it/s]
19% ███████████	2890/15000 [00:49<03:38, 55.50it/s]
19% ███████████	2896/15000 [00:49<03:49, 52.64it/s]
19% ███████████	2902/15000 [00:50<03:41, 54.54it/s]
19% ███████████	2908/15000 [00:50<03:47, 53.07it/s]
19% ███████████	2914/15000 [00:50<03:46, 53.47it/s]
19% ███████████	2920/15000 [00:50<03:55, 51.35it/s]
20% ███████████	2928/15000 [00:50<03:32, 56.83it/s]
20% ███████████	2934/15000 [00:50<03:33, 56.49it/s]
20% ███████████	2941/15000 [00:50<03:25, 58.80it/s]
20% ███████████	2948/15000 [00:50<03:34, 56.30it/s]
20% ███████████	2957/15000 [00:50<03:13, 62.28it/s]
20% ███████████	2964/15000 [00:51<03:17, 61.09it/s]
20% ███████████	2971/15000 [00:51<03:17, 60.76it/s]
20% ███████████	2978/15000 [00:51<03:16, 61.21it/s]
20% ███████████	2985/15000 [00:51<03:28, 57.55it/s]
20% ███████████	2991/15000 [00:51<03:29, 57.22it/s]
20% ███████████	2999/15000 [00:51<03:12, 62.31it/s]
20% ███████████	3006/15000 [00:51<03:25, 58.34it/s]
20% ███████████	3013/15000 [00:51<03:40, 54.24it/s]

20% ███████████	3019/15000 [00:52<03:40, 54.34it/s]
20% ███████████	3025/15000 [00:52<04:06, 48.55it/s]
20% ███████████	3031/15000 [00:52<03:55, 50.78it/s]
20% ███████████	3039/15000 [00:52<03:38, 54.66it/s]
20% ███████████	3046/15000 [00:52<03:29, 57.08it/s]
20% ███████████	3052/15000 [00:52<03:55, 50.63it/s]
20% ███████████	3060/15000 [00:52<03:30, 56.59it/s]
20% ███████████	3067/15000 [00:52<03:29, 56.87it/s]
20% ███████████	3074/15000 [00:53<03:23, 58.49it/s]
21% ███████████	3081/15000 [00:53<03:41, 53.79it/s]
21% ███████████	3090/15000 [00:53<03:15, 60.83it/s]
21% ███████████	3097/15000 [00:53<03:28, 57.17it/s]
21% ███████████	3105/15000 [00:53<03:10, 62.42it/s]
21% ███████████	3112/15000 [00:53<03:31, 56.32it/s]
21% ███████████	3119/15000 [00:53<03:22, 58.68it/s]
21% ███████████	3126/15000 [00:53<03:32, 55.82it/s]
21% ███████████	3132/15000 [00:54<03:55, 50.30it/s]
21% ███████████	3138/15000 [00:54<04:01, 49.02it/s]
21% ███████████	3145/15000 [00:54<03:45, 52.62it/s]
21% ███████████	3154/15000 [00:54<03:20, 58.95it/s]
21% ███████████	3161/15000 [00:54<03:21, 58.77it/s]
21% ███████████	3170/15000 [00:54<03:12, 61.56it/s]
21% ███████████	3177/15000 [00:54<03:15, 60.53it/s]
21% ███████████	3184/15000 [00:54<03:16, 60.06it/s]
21% ███████████	3192/15000 [00:54<03:02, 64.80it/s]
21% ███████████	3199/15000 [00:55<03:15, 60.34it/s]
21% ███████████	3207/15000 [00:55<03:03, 64.24it/s]
21% ███████████	3214/15000 [00:55<03:10, 61.91it/s]

21%| [REDACTED]

| 3221/15000 [00:55<03:30, 56.03it/s]

22%| [REDACTED]

| 3228/15000 [00:55<03:23, 57.73it/s]

22%| [REDACTED]

| 3234/15000 [00:55<03:21, 58.27it/s]

22%| [REDACTED]

| 3240/15000 [00:55<03:38, 53.82it/s]

22%| [REDACTED]

| 3248/15000 [00:55<03:22, 58.09it/s]

22%| [REDACTED]

| 3255/15000 [00:56<03:11, 61.18it/s]

22%| [REDACTED]

| 3262/15000 [00:56<03:04, 63.57it/s]

22%| [REDACTED]

| 3271/15000 [00:56<03:02, 64.11it/s]

22%| [REDACTED]

| 3278/15000 [00:56<03:05, 63.34it/s]

22%| [REDACTED]

| 3285/15000 [00:56<03:18, 59.16it/s]

22%| [REDACTED]

| 3294/15000 [00:56<02:58, 65.42it/s]

22%| [REDACTED]

| 3301/15000 [00:56<02:58, 65.53it/s]

22%| [REDACTED]

| 3308/15000 [00:56<03:02, 64.22it/s]

22%| [REDACTED]

| 3315/15000 [00:56<03:10, 61.38it/s]

22%| [REDACTED]

| 3322/15000 [00:57<03:15, 59.76it/s]

22%| [REDACTED]

| 3330/15000 [00:57<03:07, 62.30it/s]

22%| [REDACTED]

| 3337/15000 [00:57<03:20, 58.17it/s]

22%| [REDACTED]

| 3343/15000 [00:57<03:18, 58.63it/s]

22%| [REDACTED]

| 3350/15000 [00:57<03:14, 59.95it/s]

22%| [REDACTED]

| 3357/15000 [00:57<03:10, 61.01it/s]

22%| [REDACTED]

| 3364/15000 [00:57<03:13, 60.14it/s]

22%| [REDACTED]

| 3371/15000 [00:57<03:20, 58.12it/s]

23%| [REDACTED]

| 3377/15000 [00:58<03:26, 56.34it/s]

23%| [REDACTED]

| 3384/15000 [00:58<03:16, 59.00it/s]

23%| [REDACTED]

| 3390/15000 [00:58<03:23, 56.96it/s]

23%| [REDACTED]

| 3397/15000 [00:58<03:15, 59.45it/s]

23%| [REDACTED]

| 3406/15000 [00:58<03:00, 64.30it/s]

23%		3413/15000 [00:58<03:04, 62.81it/s]
23%		3420/15000 [00:58<03:03, 63.11it/s]
23%		3427/15000 [00:58<03:28, 55.59it/s]
23%		3433/15000 [00:59<03:36, 53.46it/s]
23%		3441/15000 [00:59<03:20, 57.61it/s]
23%		3447/15000 [00:59<03:47, 50.69it/s]
23%		3455/15000 [00:59<03:26, 55.91it/s]
23%		3461/15000 [00:59<03:28, 55.38it/s]
23%		3467/15000 [00:59<03:28, 55.33it/s]
23%		3474/15000 [00:59<03:23, 56.65it/s]
23%		3481/15000 [00:59<03:15, 59.00it/s]
23%		3488/15000 [00:59<03:27, 55.46it/s]
23%		3494/15000 [01:00<03:34, 53.74it/s]
23%		3503/15000 [01:00<03:10, 60.24it/s]
23%		3510/15000 [01:00<03:23, 56.40it/s]
23%		3517/15000 [01:00<03:14, 58.98it/s]
23%		3524/15000 [01:00<03:39, 52.18it/s]
24%		3530/15000 [01:00<03:54, 48.99it/s]
24%		3537/15000 [01:00<03:34, 53.55it/s]
24%		3545/15000 [01:00<03:16, 58.42it/s]
24%		3552/15000 [01:01<03:53, 48.97it/s]
24%		3559/15000 [01:01<03:34, 53.46it/s]
24%		3566/15000 [01:01<03:25, 55.59it/s]
24%		3574/15000 [01:01<03:13, 59.02it/s]
24%		3581/15000 [01:01<03:20, 56.85it/s]
24%		3587/15000 [01:01<03:21, 56.72it/s]
24%		3597/15000 [01:01<02:59, 63.43it/s]
24%		3606/15000 [01:01<02:47, 68.09it/s]

24%	3614/15000 [01:02<02:48, 67.69it/s]
24%	3622/15000 [01:02<03:14, 58.59it/s]
24%	3631/15000 [01:02<03:00, 63.08it/s]
24%	3641/15000 [01:02<02:46, 68.23it/s]
24%	3649/15000 [01:02<03:02, 62.23it/s]
24%	3656/15000 [01:02<03:06, 60.95it/s]
24%	3667/15000 [01:02<02:42, 69.59it/s]
24%	3675/15000 [01:03<02:50, 66.48it/s]
25%	3683/15000 [01:03<02:46, 68.01it/s]
25%	3691/15000 [01:03<02:53, 65.01it/s]
25%	3698/15000 [01:03<03:00, 62.45it/s]
25%	3705/15000 [01:03<03:03, 61.53it/s]
25%	3712/15000 [01:03<03:16, 57.40it/s]
25%	3718/15000 [01:03<03:26, 54.60it/s]
25%	3727/15000 [01:03<03:08, 59.82it/s]
25%	3734/15000 [01:04<03:31, 53.23it/s]
25%	3742/15000 [01:04<03:10, 59.07it/s]
25%	3751/15000 [01:04<02:57, 63.27it/s]
25%	3759/15000 [01:04<02:49, 66.37it/s]
25%	3767/15000 [01:04<02:42, 69.09it/s]
25%	3775/15000 [01:04<02:52, 65.23it/s]
25%	3782/15000 [01:04<02:59, 62.35it/s]
25%	3789/15000 [01:04<02:54, 64.28it/s]
25%	3796/15000 [01:04<03:01, 61.78it/s]
25%	3803/15000 [01:05<02:55, 63.97it/s]
25%	3810/15000 [01:05<02:53, 64.59it/s]
25%	3817/15000 [01:05<02:58, 62.56it/s]

26% ███████████	3825/15000 [01:05<02:46, 66.92it/s]
26% ███████████	3832/15000 [01:05<02:51, 65.14it/s]
26% ███████████	3839/15000 [01:05<02:57, 62.97it/s]
26% ███████████	3846/15000 [01:05<03:49, 48.56it/s]
26% ███████████	3853/15000 [01:05<03:38, 51.05it/s]
26% ███████████	3859/15000 [01:06<03:29, 53.06it/s]
26% ███████████	3865/15000 [01:06<04:03, 45.67it/s]
26% ███████████	3871/15000 [01:06<03:50, 48.22it/s]
26% ███████████	3877/15000 [01:06<03:47, 48.84it/s]
26% ███████████	3883/15000 [01:06<03:48, 48.62it/s]
26% ███████████	3889/15000 [01:06<03:43, 49.80it/s]
26% ███████████	3895/15000 [01:06<03:38, 50.89it/s]
26% ███████████	3901/15000 [01:06<03:46, 48.92it/s]
26% ███████████	3906/15000 [01:07<03:58, 46.44it/s]
26% ███████████	3912/15000 [01:07<03:51, 47.95it/s]
26% ███████████	3918/15000 [01:07<03:42, 49.74it/s]
26% ███████████	3926/15000 [01:07<03:17, 56.10it/s]
26% ███████████	3933/15000 [01:07<03:15, 56.74it/s]
26% ███████████	3939/15000 [01:07<03:33, 51.86it/s]
26% ███████████	3947/15000 [01:07<03:16, 56.24it/s]
26% ███████████	3956/15000 [01:07<02:59, 61.46it/s]
26% ███████████	3963/15000 [01:08<03:04, 59.92it/s]
26% ███████████	3970/15000 [01:08<03:08, 58.59it/s]
27% ███████████	3977/15000 [01:08<03:05, 59.30it/s]
27% ███████████	3984/15000 [01:08<03:05, 59.28it/s]
27% ███████████	3991/15000 [01:08<03:13, 56.88it/s]
27% ███████████	3998/15000 [01:08<03:07, 58.71it/s]
27% ███████████	4006/15000 [01:08<03:00, 61.07it/s]

27%	4013/15000 [01:08<03:04, 59.56it/s]
27%	4020/15000 [01:08<03:02, 60.01it/s]
27%	4027/15000 [01:09<02:57, 61.91it/s]
27%	4034/15000 [01:09<02:57, 61.70it/s]
27%	4041/15000 [01:09<03:12, 57.00it/s]
27%	4048/15000 [01:09<03:02, 59.94it/s]
27%	4057/15000 [01:09<02:48, 64.93it/s]
27%	4064/15000 [01:09<02:57, 61.53it/s]
27%	4071/15000 [01:09<02:59, 60.97it/s]
27%	4078/15000 [01:09<02:53, 62.85it/s]
27%	4085/15000 [01:10<03:04, 59.10it/s]
27%	4095/15000 [01:10<02:47, 65.25it/s]
27%	4102/15000 [01:10<02:48, 64.82it/s]
27%	4109/15000 [01:10<03:35, 50.52it/s]
27%	4117/15000 [01:10<03:11, 56.76it/s]
27%	4124/15000 [01:10<03:10, 57.24it/s]
28%	4131/15000 [01:10<03:14, 55.76it/s]
28%	4137/15000 [01:10<03:21, 53.79it/s]
28%	4144/15000 [01:11<03:15, 55.57it/s]
28%	4153/15000 [01:11<02:54, 62.26it/s]
28%	4160/15000 [01:11<02:57, 61.07it/s]
28%	4167/15000 [01:11<02:57, 60.88it/s]
28%	4174/15000 [01:11<03:18, 54.42it/s]
28%	4180/15000 [01:11<03:24, 53.01it/s]
28%	4186/15000 [01:11<03:29, 51.54it/s]
28%	4193/15000 [01:11<03:21, 53.59it/s]
28%	4199/15000 [01:12<03:37, 49.63it/s]

28%	4205/15000 [01:12<03:45, 47.87it/s]
28%	4211/15000 [01:12<03:31, 50.96it/s]
28%	4218/15000 [01:12<03:28, 51.78it/s]
28%	4225/15000 [01:12<03:16, 54.87it/s]
28%	4231/15000 [01:12<03:13, 55.63it/s]
28%	4237/15000 [01:12<03:16, 54.75it/s]
28%	4244/15000 [01:12<03:17, 54.39it/s]
28%	4250/15000 [01:13<03:20, 53.61it/s]
28%	4259/15000 [01:13<02:59, 59.71it/s]
28%	4266/15000 [01:13<02:54, 61.68it/s]
28%	4273/15000 [01:13<02:48, 63.66it/s]
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29%	4308/15000 [01:13<02:49, 63.22it/s]
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29%	4334/15000 [01:14<03:29, 50.86it/s]
29%	4340/15000 [01:14<03:21, 52.82it/s]
29%	4346/15000 [01:14<03:30, 50.59it/s]
29%	4352/15000 [01:14<03:29, 50.94it/s]
29%	4358/15000 [01:14<03:19, 53.32it/s]
29%	4365/15000 [01:14<03:06, 56.89it/s]
29%	4371/15000 [01:15<03:22, 52.44it/s]
29%	4379/15000 [01:15<03:03, 57.87it/s]
29%	4387/15000 [01:15<02:50, 62.22it/s]

29%	4396/15000 [01:15<02:39, 66.42it/s]
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29%	4410/15000 [01:15<03:32, 49.72it/s]
29%	4416/15000 [01:15<03:39, 48.17it/s]
29%	4422/15000 [01:16<03:32, 49.70it/s]
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30%	4437/15000 [01:16<03:01, 58.05it/s]
30%	4445/15000 [01:16<02:47, 63.00it/s]
30%	4453/15000 [01:16<02:41, 65.20it/s]
30%	4460/15000 [01:16<02:48, 62.69it/s]
30%	4469/15000 [01:16<02:34, 68.08it/s]
30%	4477/15000 [01:16<02:56, 59.49it/s]
30%	4484/15000 [01:16<02:58, 59.04it/s]
30%	4492/15000 [01:17<02:50, 61.60it/s]
30%	4499/15000 [01:17<03:08, 55.72it/s]
30%	4505/15000 [01:17<03:10, 55.11it/s]
30%	4511/15000 [01:17<03:29, 50.17it/s]
30%	4522/15000 [01:17<02:58, 58.54it/s]
30%	4529/15000 [01:17<02:50, 61.29it/s]
30%	4536/15000 [01:17<02:46, 62.69it/s]
30%	4544/15000 [01:17<02:40, 64.96it/s]
30%	4551/15000 [01:18<02:41, 64.61it/s]
30%	4558/15000 [01:18<02:55, 59.46it/s]
30%	4565/15000 [01:18<02:55, 59.47it/s]
30%	4573/15000 [01:18<02:48, 61.79it/s]
31%	4582/15000 [01:18<02:33, 67.78it/s]
31%	4590/15000 [01:18<02:47, 62.02it/s]

31%	4597/15000 [01:18<02:48, 61.73it/s]
31%	4604/15000 [01:18<02:46, 62.25it/s]
31%	4611/15000 [01:18<02:43, 63.37it/s]
31%	4618/15000 [01:19<02:43, 63.40it/s]
31%	4625/15000 [01:19<02:43, 63.49it/s]
31%	4632/15000 [01:19<03:00, 57.30it/s]
31%	4638/15000 [01:19<03:10, 54.39it/s]
31%	4644/15000 [01:19<03:18, 52.13it/s]
31%	4651/15000 [01:19<03:03, 56.43it/s]
31%	4657/15000 [01:19<03:13, 53.48it/s]
31%	4664/15000 [01:19<03:02, 56.76it/s]
31%	4670/15000 [01:20<03:30, 48.99it/s]
31%	4678/15000 [01:20<03:10, 54.12it/s]
31%	4684/15000 [01:20<03:11, 54.00it/s]
31%	4691/15000 [01:20<03:03, 56.20it/s]
31%	4697/15000 [01:20<03:08, 54.68it/s]
31%	4704/15000 [01:20<02:59, 57.41it/s]
31%	4712/15000 [01:20<02:50, 60.40it/s]
31%	4719/15000 [01:20<02:45, 62.29it/s]
32%	4729/15000 [01:20<02:29, 68.81it/s]
32%	4737/15000 [01:21<02:32, 67.15it/s]
32%	4745/15000 [01:21<02:25, 70.50it/s]
32%	4753/15000 [01:21<02:31, 67.52it/s]
32%	4760/15000 [01:21<02:47, 61.13it/s]
32%	4767/15000 [01:21<02:51, 59.62it/s]
32%	4774/15000 [01:21<03:02, 56.16it/s]
32%	4783/15000 [01:21<02:43, 62.68it/s]
32%	4792/15000 [01:21<02:31, 67.53it/s]

32%	4800/15000 [01:22<02:39, 64.01it/s]
32%	4807/15000 [01:22<02:36, 65.11it/s]
32%	4814/15000 [01:22<02:48, 60.37it/s]
32%	4821/15000 [01:22<02:46, 61.20it/s]
32%	4828/15000 [01:22<02:45, 61.63it/s]
32%	4835/15000 [01:22<02:44, 61.94it/s]
32%	4842/15000 [01:22<02:58, 57.01it/s]
32%	4851/15000 [01:22<02:39, 63.55it/s]
32%	4858/15000 [01:23<02:41, 62.85it/s]
32%	4865/15000 [01:23<02:46, 60.76it/s]
32%	4872/15000 [01:23<02:46, 61.00it/s]
33%	4879/15000 [01:23<02:58, 56.72it/s]
33%	4886/15000 [01:23<02:55, 57.66it/s]
33%	4893/15000 [01:23<02:50, 59.15it/s]
33%	4899/15000 [01:23<02:59, 56.36it/s]
33%	4905/15000 [01:23<02:59, 56.32it/s]
33%	4911/15000 [01:24<03:21, 49.98it/s]
33%	4918/15000 [01:24<03:07, 53.82it/s]
33%	4926/15000 [01:24<02:49, 59.58it/s]
33%	4935/15000 [01:24<02:33, 65.76it/s]
33%	4943/15000 [01:24<03:06, 54.06it/s]
33%	4950/15000 [01:24<02:58, 56.25it/s]
33%	4959/15000 [01:24<02:39, 62.78it/s]
33%	4966/15000 [01:24<02:40, 62.39it/s]
33%	4974/15000 [01:25<02:37, 63.58it/s]
33%	4981/15000 [01:25<02:41, 61.91it/s]
33%	4988/15000 [01:25<02:47, 59.62it/s]

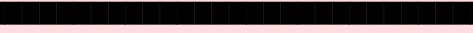
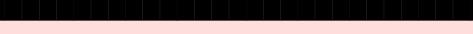
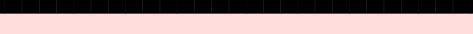
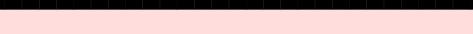
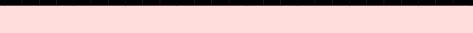
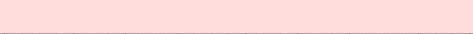
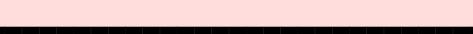
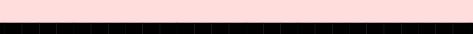
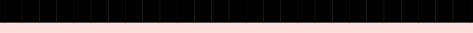
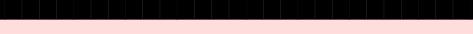
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33%	5008/15000 [01:25<02:47, 59.69it/s]
33%	5015/15000 [01:25<02:40, 62.41it/s]
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34%	5029/15000 [01:25<02:35, 64.04it/s]
34%	5036/15000 [01:26<02:53, 57.58it/s]
34%	5045/15000 [01:26<02:37, 63.21it/s]
34%	5054/15000 [01:26<02:26, 67.84it/s]
34%	5062/15000 [01:26<02:21, 70.34it/s]
34%	5070/15000 [01:26<02:40, 61.94it/s]
34%	5077/15000 [01:26<02:47, 59.11it/s]
34%	5084/15000 [01:26<02:41, 61.35it/s]
34%	5091/15000 [01:26<02:38, 62.60it/s]
34%	5102/15000 [01:27<02:20, 70.60it/s]
34%	5110/15000 [01:27<02:33, 64.34it/s]
34%	5117/15000 [01:27<02:44, 60.15it/s]
34%	5126/15000 [01:27<02:30, 65.41it/s]
34%	5133/15000 [01:27<02:30, 65.76it/s]
34%	5140/15000 [01:27<02:33, 64.36it/s]
34%	5147/15000 [01:27<02:49, 58.19it/s]
34%	5154/15000 [01:27<02:40, 61.17it/s]
34%	5161/15000 [01:28<02:52, 57.03it/s]
34%	5168/15000 [01:28<02:43, 60.12it/s]
34%	5175/15000 [01:28<02:42, 60.39it/s]
35%	5182/15000 [01:28<02:52, 56.90it/s]
35%	5188/15000 [01:28<02:53, 56.46it/s]
35%	5195/15000 [01:28<02:44, 59.75it/s]

35% ███████████	5203/15000 [01:28<02:35, 63.09it/s]
35% ███████████	5211/15000 [01:28<02:25, 67.14it/s]
35% ███████████	5218/15000 [01:28<02:28, 66.06it/s]
35% ███████████	5225/15000 [01:29<02:42, 60.24it/s]
35% ███████████	5232/15000 [01:29<02:43, 59.64it/s]
35% ███████████	5239/15000 [01:29<02:44, 59.27it/s]
35% ███████████	5248/15000 [01:29<02:35, 62.76it/s]
35% ███████████	5255/15000 [01:29<02:38, 61.50it/s]
35% ███████████	5262/15000 [01:29<02:40, 60.51it/s]
35% ███████████	5270/15000 [01:29<02:31, 64.14it/s]
35% ███████████	5277/15000 [01:29<02:39, 60.85it/s]
35% ███████████	5284/15000 [01:29<02:41, 60.27it/s]
35% ███████████	5291/15000 [01:30<02:44, 59.12it/s]
35% ███████████	5297/15000 [01:30<02:54, 55.64it/s]
35% ███████████	5303/15000 [01:30<02:51, 56.60it/s]
35% ███████████	5309/15000 [01:30<03:10, 50.90it/s]
35% ███████████	5315/15000 [01:30<03:22, 47.85it/s]
35% ███████████	5320/15000 [01:30<03:31, 45.79it/s]
36% ███████████	5328/15000 [01:30<03:06, 51.96it/s]
36% ███████████	5334/15000 [01:30<03:08, 51.36it/s]
36% ███████████	5341/15000 [01:31<02:57, 54.51it/s]
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36% ███████████	5353/15000 [01:31<02:56, 54.65it/s]
36% ███████████	5361/15000 [01:31<02:43, 59.06it/s]
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36% ███████████	5376/15000 [01:31<02:30, 63.86it/s]
36% ███████████	5383/15000 [01:31<03:00, 53.24it/s]

36%	5389/15000 [01:31<02:59, 53.60it/s]
36%	5395/15000 [01:32<02:55, 54.88it/s]
36%	5403/15000 [01:32<02:39, 60.14it/s]
36%	5410/15000 [01:32<02:52, 55.67it/s]
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36%	5423/15000 [01:32<02:52, 55.41it/s]
36%	5430/15000 [01:32<02:46, 57.54it/s]
36%	5436/15000 [01:32<02:48, 56.66it/s]
36%	5442/15000 [01:32<02:47, 56.95it/s]
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36%	5457/15000 [01:33<02:36, 60.91it/s]
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36%	5470/15000 [01:33<02:52, 55.22it/s]
37%	5477/15000 [01:33<02:43, 58.09it/s]
37%	5483/15000 [01:33<02:53, 54.82it/s]
37%	5490/15000 [01:33<02:44, 57.78it/s]
37%	5497/15000 [01:33<02:45, 57.48it/s]
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37%	5511/15000 [01:34<02:56, 53.78it/s]
37%	5517/15000 [01:34<02:55, 54.01it/s]
37%	5524/15000 [01:34<02:45, 57.42it/s]
37%	5532/15000 [01:34<02:33, 61.67it/s]
37%	5540/15000 [01:34<02:27, 64.31it/s]
37%	5547/15000 [01:34<02:39, 59.13it/s]
37%	5554/15000 [01:34<02:40, 58.90it/s]
37%	5561/15000 [01:34<02:37, 59.77it/s]
37%	5568/15000 [01:34<02:40, 58.64it/s]
37%	5574/15000 [01:35<03:00, 52.17it/s]

37% ███████████	5580/15000 [01:35<03:08, 50.00it/s]
37% ███████████	5587/15000 [01:35<02:56, 53.47it/s]
37% ███████████	5594/15000 [01:35<02:47, 56.20it/s]
37% ███████████	5601/15000 [01:35<02:42, 57.86it/s]
37% ███████████	5608/15000 [01:35<02:38, 59.15it/s]
37% ███████████	5615/15000 [01:35<02:35, 60.18it/s]
37% ███████████	5622/15000 [01:35<02:33, 61.07it/s]
38% ███████████	5629/15000 [01:36<02:41, 57.91it/s]
38% ███████████	5638/15000 [01:36<02:30, 62.16it/s]
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38% ███████████	5659/15000 [01:36<02:32, 61.31it/s]
38% ███████████	5666/15000 [01:36<02:34, 60.41it/s]
38% ███████████	5673/15000 [01:36<02:40, 58.12it/s]
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38% ███████████	5688/15000 [01:37<02:31, 61.64it/s]
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38% ███████████	5703/15000 [01:37<02:23, 64.97it/s]
38% ███████████	5710/15000 [01:37<02:32, 60.98it/s]
38% ███████████	5717/15000 [01:37<02:27, 62.80it/s]
38% ███████████	5724/15000 [01:37<02:31, 61.28it/s]
38% ███████████	5732/15000 [01:37<02:21, 65.38it/s]
38% ███████████	5739/15000 [01:37<02:26, 63.43it/s]
38% ███████████	5746/15000 [01:37<02:32, 60.63it/s]
38% ███████████	5753/15000 [01:38<02:34, 59.96it/s]
38% ███████████	5762/15000 [01:38<02:21, 65.15it/s]
38% ███████████	5769/15000 [01:38<02:30, 61.44it/s]

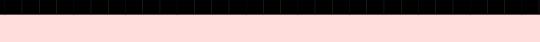
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39%	[REDACTED]	5790/15000 [01:38<02:23, 64.10it/s]
39%	[REDACTED]	5797/15000 [01:38<02:27, 62.26it/s]
39%	[REDACTED]	5805/15000 [01:38<02:20, 65.34it/s]
39%	[REDACTED]	5812/15000 [01:39<02:42, 56.62it/s]
39%	[REDACTED]	5820/15000 [01:39<02:28, 61.74it/s]
39%	[REDACTED]	5827/15000 [01:39<02:24, 63.44it/s]
39%	[REDACTED]	5834/15000 [01:39<02:30, 61.06it/s]
39%	[REDACTED]	5841/15000 [01:39<02:26, 62.36it/s]
39%	[REDACTED]	5849/15000 [01:39<02:19, 65.51it/s]
39%	[REDACTED]	5856/15000 [01:39<02:50, 53.76it/s]
39%	[REDACTED]	5862/15000 [01:39<02:46, 54.89it/s]
39%	[REDACTED]	5868/15000 [01:39<02:42, 56.25it/s]
39%	[REDACTED]	5875/15000 [01:40<02:39, 57.15it/s]
39%	[REDACTED]	5881/15000 [01:40<02:42, 56.06it/s]
39%	[REDACTED]	5887/15000 [01:40<02:48, 54.04it/s]
39%	[REDACTED]	5894/15000 [01:40<02:39, 57.20it/s]
39%	[REDACTED]	5900/15000 [01:40<02:43, 55.72it/s]
39%	[REDACTED]	5906/15000 [01:40<02:42, 56.02it/s]
39%	[REDACTED]	5912/15000 [01:40<03:01, 49.99it/s]
39%	[REDACTED]	5919/15000 [01:40<02:49, 53.70it/s]
40%	[REDACTED]	5926/15000 [01:41<02:45, 54.67it/s]
40%	[REDACTED]	5932/15000 [01:41<02:53, 52.18it/s]
40%	[REDACTED]	5938/15000 [01:41<03:19, 45.32it/s]
40%	[REDACTED]	5944/15000 [01:41<03:13, 46.72it/s]
40%	[REDACTED]	5952/15000 [01:41<02:53, 52.26it/s]
40%	[REDACTED]	5959/15000 [01:41<02:46, 54.23it/s]

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40%		5973/15000 [01:41<02:32, 59.08it/s]
40%		5980/15000 [01:41<02:33, 58.61it/s]
40%		5987/15000 [01:42<02:40, 56.32it/s]
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40%		6001/15000 [01:42<02:29, 60.07it/s]
40%		6008/15000 [01:42<02:45, 54.33it/s]
40%		6015/15000 [01:42<02:36, 57.28it/s]
40%		6022/15000 [01:42<02:40, 55.93it/s]
40%		6030/15000 [01:42<02:27, 60.86it/s]
40%		6037/15000 [01:42<02:32, 58.63it/s]
40%		6044/15000 [01:43<02:39, 56.22it/s]
40%		6050/15000 [01:43<02:45, 54.21it/s]
40%		6056/15000 [01:43<02:42, 55.17it/s]
40%		6063/15000 [01:43<02:33, 58.24it/s]
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41%	6155/15000 [01:44<02:21, 62.47it/s]
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41%	6221/15000 [01:46<02:23, 61.07it/s]
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42%	6234/15000 [01:46<02:39, 55.13it/s]
42%	6242/15000 [01:46<02:33, 56.97it/s]
42%	6250/15000 [01:46<02:22, 61.58it/s]
42%	6260/15000 [01:46<02:06, 68.93it/s]
42%	6268/15000 [01:46<02:09, 67.23it/s]
42%	6276/15000 [01:46<02:03, 70.48it/s]
42%	6285/15000 [01:46<01:56, 74.87it/s]
42%	6293/15000 [01:47<02:18, 62.91it/s]
42%	6300/15000 [01:47<02:21, 61.68it/s]
42%	6307/15000 [01:47<02:20, 61.81it/s]
42%	6314/15000 [01:47<02:23, 60.52it/s]
42%	6322/15000 [01:47<02:16, 63.47it/s]
42%	6329/15000 [01:47<02:39, 54.30it/s]
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42%	6348/15000 [01:48<02:33, 56.28it/s]
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42%		6362/15000 [01:48<02:37, 54.97it/s]
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42%		6374/15000 [01:48<02:31, 56.86it/s]
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43%		6387/15000 [01:48<02:35, 55.27it/s]
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43%		6401/15000 [01:49<02:28, 57.83it/s]
43%		6408/15000 [01:49<02:40, 53.70it/s]
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43%		6450/15000 [01:49<02:24, 59.22it/s]
43%		6457/15000 [01:50<02:47, 51.15it/s]
43%		6463/15000 [01:50<02:46, 51.29it/s]
43%		6472/15000 [01:50<02:27, 57.76it/s]
43%		6479/15000 [01:50<02:23, 59.45it/s]
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43%		6524/15000 [01:51<02:18, 61.19it/s]
44%		6533/15000 [01:51<02:09, 65.63it/s]
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44%		6549/15000 [01:51<02:14, 63.01it/s]

44%		6556/15000 [01:51<02:24, 58.47it/s]
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44%		6571/15000 [01:51<02:19, 60.22it/s]
44%		6578/15000 [01:52<02:32, 55.39it/s]
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44%		6603/15000 [01:52<02:17, 61.13it/s]
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44%		6625/15000 [01:52<02:26, 56.98it/s]
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44%		6639/15000 [01:53<02:16, 61.36it/s]
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44%		6661/15000 [01:53<02:21, 59.06it/s]
44%		6668/15000 [01:53<02:23, 57.93it/s]
45%		6676/15000 [01:53<02:14, 61.68it/s]
45%		6685/15000 [01:53<02:05, 66.04it/s]
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45%		6699/15000 [01:54<02:23, 57.76it/s]
45%		6706/15000 [01:54<02:20, 59.00it/s]
45%		6713/15000 [01:54<02:20, 58.85it/s]
45%		6720/15000 [01:54<02:14, 61.52it/s]
45%		6727/15000 [01:54<02:37, 52.67it/s]
45%		6734/15000 [01:54<02:31, 54.41it/s]
45%		6741/15000 [01:54<02:25, 56.80it/s]
45%		6748/15000 [01:54<02:17, 60.18it/s]
45%		6757/15000 [01:55<02:11, 62.71it/s]

45%		6764/15000 [01:55<02:16, 60.31it/s]
45%		6771/15000 [01:55<02:14, 61.28it/s]
45%		6779/15000 [01:55<02:13, 61.37it/s]
45%		6786/15000 [01:55<02:15, 60.44it/s]
45%		6793/15000 [01:55<02:25, 56.30it/s]
45%		6799/15000 [01:55<02:29, 54.88it/s]
45%		6805/15000 [01:55<02:33, 53.26it/s]
45%		6811/15000 [01:56<02:57, 46.24it/s]
45%		6818/15000 [01:56<02:40, 51.03it/s]
46%		6825/15000 [01:56<02:36, 52.31it/s]
46%		6831/15000 [01:56<02:39, 51.13it/s]
46%		6841/15000 [01:56<02:17, 59.19it/s]
46%		6848/15000 [01:56<02:14, 60.50it/s]
46%		6855/15000 [01:56<02:30, 54.26it/s]
46%		6863/15000 [01:56<02:15, 60.05it/s]
46%		6870/15000 [01:56<02:10, 62.17it/s]
46%		6878/15000 [01:57<02:04, 65.11it/s]
46%		6885/15000 [01:57<02:04, 65.15it/s]
46%		6892/15000 [01:57<02:05, 64.64it/s]
46%		6899/15000 [01:57<02:19, 58.00it/s]
46%		6906/15000 [01:57<02:17, 59.01it/s]
46%		6913/15000 [01:57<02:10, 61.90it/s]
46%		6920/15000 [01:57<02:17, 58.70it/s]
46%		6927/15000 [01:57<02:15, 59.53it/s]
46%		6934/15000 [01:58<02:18, 58.18it/s]
46%		6941/15000 [01:58<02:13, 60.27it/s]
46%		6948/15000 [01:58<02:17, 58.75it/s]

46% ███████████	6954/15000 [01:58<02:25, 55.25it/s]
46% ███████████	6962/15000 [01:58<02:14, 59.58it/s]
46% ███████████	6969/15000 [01:58<02:09, 62.25it/s]
47% ███████████	6978/15000 [01:58<01:59, 67.25it/s]
47% ███████████	6985/15000 [01:58<02:14, 59.71it/s]
47% ███████████	6994/15000 [01:58<02:01, 66.16it/s]
47% ███████████	7002/15000 [01:59<02:14, 59.53it/s]
47% ███████████	7011/15000 [01:59<02:01, 65.94it/s]
47% ███████████	7019/15000 [01:59<02:05, 63.53it/s]
47% ███████████	7026/15000 [01:59<02:07, 62.76it/s]
47% ███████████	7033/15000 [01:59<02:10, 60.94it/s]
47% ███████████	7040/15000 [01:59<02:05, 63.27it/s]
47% ███████████	7047/15000 [01:59<02:05, 63.26it/s]
47% ███████████	7055/15000 [01:59<02:00, 66.04it/s]
47% ███████████	7062/15000 [02:00<02:07, 62.39it/s]
47% ███████████	7069/15000 [02:00<02:04, 63.66it/s]
47% ███████████	7076/15000 [02:00<02:16, 58.02it/s]
47% ███████████	7082/15000 [02:00<02:16, 57.97it/s]
47% ███████████	7089/15000 [02:00<02:18, 56.99it/s]
47% ███████████	7096/15000 [02:00<02:15, 58.36it/s]
47% ███████████	7102/15000 [02:00<02:21, 56.01it/s]
47% ███████████	7110/15000 [02:00<02:11, 60.16it/s]
47% ███████████	7117/15000 [02:00<02:07, 61.75it/s]
47% ███████████	7124/15000 [02:01<02:26, 53.73it/s]
48% ███████████	7130/15000 [02:01<02:21, 55.47it/s]
48% ███████████	7138/15000 [02:01<02:12, 59.17it/s]
48% ███████████	7145/15000 [02:01<02:13, 59.02it/s]
48% ███████████	7152/15000 [02:01<02:08, 60.88it/s]

48%	7159/15000 [02:01<02:20, 55.80it/s]
48%	7165/15000 [02:01<02:26, 53.38it/s]
48%	7173/15000 [02:01<02:12, 58.94it/s]
48%	7181/15000 [02:02<02:04, 62.68it/s]
48%	7188/15000 [02:02<02:02, 63.53it/s]
48%	7196/15000 [02:02<02:01, 64.03it/s]
48%	7203/15000 [02:02<02:18, 56.34it/s]
48%	7209/15000 [02:02<02:17, 56.46it/s]
48%	7215/15000 [02:02<02:22, 54.55it/s]
48%	7222/15000 [02:02<02:16, 57.00it/s]
48%	7228/15000 [02:02<02:29, 52.09it/s]
48%	7234/15000 [02:03<02:29, 51.82it/s]
48%	7240/15000 [02:03<02:34, 50.08it/s]
48%	7248/15000 [02:03<02:19, 55.56it/s]
48%	7255/15000 [02:03<02:12, 58.60it/s]
48%	7262/15000 [02:03<02:21, 54.73it/s]
48%	7268/15000 [02:03<02:23, 53.84it/s]
49%	7277/15000 [02:03<02:07, 60.41it/s]
49%	7285/15000 [02:03<02:00, 64.22it/s]
49%	7292/15000 [02:04<02:26, 52.53it/s]
49%	7299/15000 [02:04<02:16, 56.24it/s]
49%	7306/15000 [02:04<02:21, 54.29it/s]
49%	7313/15000 [02:04<02:14, 57.25it/s]
49%	7320/15000 [02:04<02:11, 58.39it/s]
49%	7327/15000 [02:04<02:14, 57.01it/s]
49%	7337/15000 [02:04<01:59, 64.37it/s]
49%	7344/15000 [02:04<02:03, 62.11it/s]

49%	7351/15000 [02:05<02:17, 55.76it/s]
49%	7357/15000 [02:05<02:19, 54.82it/s]
49%	7365/15000 [02:05<02:07, 59.68it/s]
49%	7372/15000 [02:05<02:05, 60.79it/s]
49%	7379/15000 [02:05<02:01, 62.60it/s]
49%	7387/15000 [02:05<02:01, 62.89it/s]
49%	7394/15000 [02:05<02:05, 60.82it/s]
49%	7401/15000 [02:05<02:06, 60.10it/s]
49%	7409/15000 [02:05<01:57, 64.86it/s]
49%	7416/15000 [02:06<01:56, 65.24it/s]
49%	7423/15000 [02:06<02:00, 63.11it/s]
50%	7430/15000 [02:06<01:57, 64.28it/s]
50%	7437/15000 [02:06<02:01, 62.25it/s]
50%	7444/15000 [02:06<02:07, 59.44it/s]
50%	7451/15000 [02:06<02:10, 57.73it/s]
50%	7459/15000 [02:06<02:03, 60.84it/s]
50%	7466/15000 [02:06<02:12, 56.93it/s]
50%	7472/15000 [02:07<02:19, 54.11it/s]
50%	7479/15000 [02:07<02:12, 56.71it/s]
50%	7485/15000 [02:07<02:16, 55.05it/s]
50%	7491/15000 [02:07<02:31, 49.44it/s]
50%	7499/15000 [02:07<02:15, 55.42it/s]
50%	7507/15000 [02:07<02:08, 58.39it/s]
50%	7514/15000 [02:07<02:14, 55.81it/s]
50%	7521/15000 [02:07<02:06, 58.99it/s]
50%	7528/15000 [02:08<02:08, 58.21it/s]
50%	7534/15000 [02:08<02:11, 56.91it/s]
50%	7540/15000 [02:08<02:14, 55.50it/s]

50%	7546/15000 [02:08<02:36, 47.57it/s]
50%	7555/15000 [02:08<02:22, 52.34it/s]
50%	7563/15000 [02:08<02:11, 56.55it/s]
50%	7571/15000 [02:08<02:04, 59.46it/s]
51%	7578/15000 [02:08<02:09, 57.29it/s]
51%	7584/15000 [02:09<02:20, 52.88it/s]
51%	7593/15000 [02:09<02:02, 60.31it/s]
51%	7600/15000 [02:09<02:05, 58.94it/s]
51%	7610/15000 [02:09<01:49, 67.22it/s]
51%	7618/15000 [02:09<02:01, 60.82it/s]
51%	7625/15000 [02:09<01:57, 62.68it/s]
51%	7632/15000 [02:09<02:14, 54.64it/s]
51%	7640/15000 [02:09<02:02, 59.85it/s]
51%	7647/15000 [02:10<02:08, 57.04it/s]
51%	7654/15000 [02:10<02:15, 54.30it/s]
51%	7661/15000 [02:10<02:06, 58.14it/s]
51%	7668/15000 [02:10<02:01, 60.32it/s]
51%	7675/15000 [02:10<01:57, 62.39it/s]
51%	7685/15000 [02:10<01:48, 67.36it/s]
51%	7692/15000 [02:10<01:47, 68.13it/s]
51%	7699/15000 [02:10<02:05, 58.09it/s]
51%	7706/15000 [02:10<02:02, 59.54it/s]
51%	7714/15000 [02:11<01:58, 61.28it/s]
51%	7721/15000 [02:11<01:59, 61.04it/s]
52%	7728/15000 [02:11<02:11, 55.40it/s]
52%	7735/15000 [02:11<02:10, 55.76it/s]
52%	7741/15000 [02:11<02:09, 56.05it/s]

52%	7747/15000 [02:11<02:07, 56.74it/s]
52%	7755/15000 [02:11<01:56, 62.10it/s]
52%	7762/15000 [02:11<01:53, 63.63it/s]
52%	7769/15000 [02:12<02:01, 59.42it/s]
52%	7776/15000 [02:12<02:02, 59.04it/s]
52%	7783/15000 [02:12<01:59, 60.42it/s]
52%	7790/15000 [02:12<02:00, 59.87it/s]
52%	7797/15000 [02:12<01:59, 60.36it/s]
52%	7805/15000 [02:12<01:52, 64.04it/s]
52%	7813/15000 [02:12<01:48, 66.45it/s]
52%	7821/15000 [02:12<01:42, 69.98it/s]
52%	7829/15000 [02:12<01:53, 63.35it/s]
52%	7837/15000 [02:13<01:50, 65.03it/s]
52%	7845/15000 [02:13<01:45, 68.09it/s]
52%	7853/15000 [02:13<01:41, 70.21it/s]
52%	7861/15000 [02:13<01:45, 67.37it/s]
52%	7868/15000 [02:13<02:03, 57.52it/s]
53%	7876/15000 [02:13<01:54, 61.95it/s]
53%	7885/15000 [02:13<01:45, 67.56it/s]
53%	7893/15000 [02:13<01:53, 62.76it/s]
53%	7900/15000 [02:14<02:01, 58.50it/s]
53%	7908/15000 [02:14<01:55, 61.19it/s]
53%	7916/15000 [02:14<01:52, 63.23it/s]
53%	7923/15000 [02:14<01:55, 61.08it/s]
53%	7930/15000 [02:14<02:02, 57.54it/s]
53%	7938/15000 [02:14<01:53, 62.29it/s]
53%	7947/15000 [02:14<01:47, 65.64it/s]
53%	7954/15000 [02:14<01:57, 60.01it/s]

53%		7961/15000 [02:15<01:55, 60.90it/s]
53%		7968/15000 [02:15<01:53, 61.84it/s]
53%		7975/15000 [02:15<02:04, 56.56it/s]
53%		7981/15000 [02:15<02:02, 57.47it/s]
53%		7988/15000 [02:15<01:55, 60.69it/s]
53%		7995/15000 [02:15<02:07, 55.10it/s]
53%		8001/15000 [02:15<02:14, 52.03it/s]
53%		8008/15000 [02:15<02:09, 53.83it/s]
53%		8015/15000 [02:16<02:02, 56.92it/s]
53%		8021/15000 [02:16<02:07, 54.63it/s]
54%		8027/15000 [02:16<02:14, 51.80it/s]
54%		8033/15000 [02:16<02:22, 48.78it/s]
54%		8040/15000 [02:16<02:12, 52.41it/s]
54%		8046/15000 [02:16<02:25, 47.94it/s]
54%		8052/15000 [02:16<02:16, 51.01it/s]
54%		8058/15000 [02:16<02:30, 46.03it/s]
54%		8068/15000 [02:17<02:08, 54.03it/s]
54%		8075/15000 [02:17<02:05, 55.28it/s]
54%		8082/15000 [02:17<02:10, 53.06it/s]
54%		8090/15000 [02:17<01:58, 58.28it/s]
54%		8099/15000 [02:17<01:48, 63.33it/s]
54%		8106/15000 [02:17<01:50, 62.36it/s]
54%		8114/15000 [02:17<01:48, 63.55it/s]
54%		8121/15000 [02:17<01:49, 62.93it/s]
54%		8128/15000 [02:17<01:45, 64.83it/s]
54%		8135/15000 [02:18<01:51, 61.77it/s]
54%		8143/15000 [02:18<01:47, 64.03it/s]

54%		8150/15000 [02:18<01:48, 62.94it/s]
54%		8157/15000 [02:18<01:55, 59.25it/s]
54%		8165/15000 [02:18<01:48, 62.85it/s]
54%		8172/15000 [02:18<01:47, 63.63it/s]
55%		8179/15000 [02:18<01:53, 60.16it/s]
55%		8186/15000 [02:18<02:00, 56.39it/s]
55%		8192/15000 [02:19<02:05, 54.38it/s]
55%		8199/15000 [02:19<01:57, 57.70it/s]
55%		8206/15000 [02:19<01:54, 59.39it/s]
55%		8213/15000 [02:19<01:52, 60.18it/s]
55%		8220/15000 [02:19<02:00, 56.36it/s]
55%		8227/15000 [02:19<01:56, 58.26it/s]
55%		8238/15000 [02:19<01:42, 65.78it/s]
55%		8245/15000 [02:19<01:40, 66.94it/s]
55%		8252/15000 [02:19<01:40, 67.06it/s]
55%		8259/15000 [02:20<01:53, 59.49it/s]
55%		8266/15000 [02:20<02:02, 54.83it/s]
55%		8274/15000 [02:20<01:51, 60.53it/s]
55%		8282/15000 [02:20<01:50, 60.84it/s]
55%		8292/15000 [02:20<01:38, 68.35it/s]
55%		8300/15000 [02:20<01:51, 59.89it/s]
55%		8307/15000 [02:20<01:50, 60.43it/s]
55%		8314/15000 [02:21<02:00, 55.49it/s]
55%		8321/15000 [02:21<01:54, 58.24it/s]
56%		8328/15000 [02:21<02:02, 54.24it/s]
56%		8334/15000 [02:21<01:59, 55.80it/s]
56%		8342/15000 [02:21<01:51, 59.49it/s]
56%		8349/15000 [02:21<01:51, 59.73it/s]

56%		8356/15000 [02:21<02:07, 52.14it/s]
56%		8365/15000 [02:21<01:52, 58.88it/s]
56%		8372/15000 [02:22<01:51, 59.19it/s]
56%		8379/15000 [02:22<01:56, 56.76it/s]
56%		8385/15000 [02:22<01:55, 57.08it/s]
56%		8391/15000 [02:22<02:01, 54.36it/s]
56%		8397/15000 [02:22<02:01, 54.46it/s]
56%		8403/15000 [02:22<01:58, 55.59it/s]
56%		8412/15000 [02:22<01:45, 62.30it/s]
56%		8420/15000 [02:22<01:40, 65.33it/s]
56%		8427/15000 [02:22<01:51, 58.91it/s]
56%		8434/15000 [02:23<02:05, 52.18it/s]
56%		8441/15000 [02:23<01:56, 56.44it/s]
56%		8450/15000 [02:23<01:47, 60.97it/s]
56%		8458/15000 [02:23<01:40, 65.01it/s]
56%		8465/15000 [02:23<01:45, 61.85it/s]
56%		8472/15000 [02:23<01:42, 63.40it/s]
57%		8479/15000 [02:23<01:41, 64.21it/s]
57%		8486/15000 [02:23<01:42, 63.34it/s]
57%		8493/15000 [02:24<01:46, 60.93it/s]
57%		8500/15000 [02:24<01:45, 61.58it/s]
57%		8507/15000 [02:24<01:48, 59.88it/s]
57%		8514/15000 [02:24<01:48, 60.04it/s]
57%		8521/15000 [02:24<01:54, 56.68it/s]
57%		8528/15000 [02:24<01:50, 58.55it/s]
57%		8534/15000 [02:24<01:58, 54.41it/s]
57%		8542/15000 [02:24<01:47, 59.98it/s]

57%		8550/15000 [02:24<01:46, 60.35it/s]
57%		8557/15000 [02:25<01:44, 61.59it/s]
57%		8565/15000 [02:25<01:37, 65.71it/s]
57%		8573/15000 [02:25<01:34, 68.24it/s]
57%		8580/15000 [02:25<01:40, 64.10it/s]
57%		8587/15000 [02:25<01:43, 61.97it/s]
57%		8595/15000 [02:25<01:36, 66.18it/s]
57%		8603/15000 [02:25<01:34, 67.38it/s]
57%		8611/15000 [02:25<01:35, 67.18it/s]
57%		8618/15000 [02:26<01:47, 59.37it/s]
58%		8626/15000 [02:26<01:39, 63.95it/s]
58%		8634/15000 [02:26<01:33, 67.99it/s]
58%		8643/15000 [02:26<01:30, 70.43it/s]
58%		8651/15000 [02:26<01:36, 65.83it/s]
58%		8660/15000 [02:26<01:30, 69.96it/s]
58%		8669/15000 [02:26<01:25, 74.32it/s]
58%		8677/15000 [02:26<01:39, 63.67it/s]
58%		8684/15000 [02:27<01:48, 58.17it/s]
58%		8693/15000 [02:27<01:38, 64.27it/s]
58%		8700/15000 [02:27<01:43, 60.94it/s]
58%		8707/15000 [02:27<01:42, 61.20it/s]
58%		8714/15000 [02:27<01:39, 62.88it/s]
58%		8721/15000 [02:27<01:43, 60.46it/s]
58%		8728/15000 [02:27<01:41, 61.75it/s]
58%		8735/15000 [02:27<01:38, 63.67it/s]
58%		8742/15000 [02:27<01:35, 65.33it/s]
58%		8750/15000 [02:28<01:31, 68.07it/s]
58%		8757/15000 [02:28<01:34, 65.96it/s]

58%		8764/15000 [02:28<01:46, 58.79it/s]
58%		8771/15000 [02:28<01:43, 60.13it/s]
59%		8778/15000 [02:28<01:52, 55.32it/s]
59%		8786/15000 [02:28<01:44, 59.51it/s]
59%		8793/15000 [02:28<01:46, 58.51it/s]
59%		8800/15000 [02:28<01:54, 54.20it/s]
59%		8809/15000 [02:29<01:41, 60.71it/s]
59%		8816/15000 [02:29<01:40, 61.36it/s]
59%		8826/15000 [02:29<01:29, 68.66it/s]
59%		8834/15000 [02:29<01:30, 68.45it/s]
59%		8842/15000 [02:29<01:33, 66.11it/s]
59%		8849/15000 [02:29<01:45, 58.53it/s]
59%		8856/15000 [02:29<01:40, 61.27it/s]
59%		8864/15000 [02:29<01:35, 64.45it/s]
59%		8871/15000 [02:29<01:37, 63.09it/s]
59%		8879/15000 [02:30<01:34, 65.03it/s]
59%		8886/15000 [02:30<01:35, 64.05it/s]
59%		8894/15000 [02:30<01:31, 67.00it/s]
59%		8901/15000 [02:30<01:44, 58.36it/s]
59%		8908/15000 [02:30<01:41, 59.90it/s]
59%		8917/15000 [02:30<01:31, 66.57it/s]
60%		8925/15000 [02:30<01:31, 66.19it/s]
60%		8932/15000 [02:30<01:34, 64.55it/s]
60%		8939/15000 [02:31<01:55, 52.61it/s]
60%		8946/15000 [02:31<01:52, 53.75it/s]
60%		8955/15000 [02:31<01:40, 60.25it/s]
60%		8962/15000 [02:31<01:39, 60.48it/s]

60%		8969/15000 [02:31<01:39, 60.33it/s]
60%		8976/15000 [02:31<01:47, 55.78it/s]
60%		8982/15000 [02:31<01:53, 53.14it/s]
60%		8988/15000 [02:31<01:49, 54.96it/s]
60%		8994/15000 [02:32<01:51, 53.87it/s]
60%		9000/15000 [02:32<01:49, 54.92it/s]
60%		9007/15000 [02:32<01:43, 57.85it/s]
60%		9013/15000 [02:32<01:45, 56.79it/s]
60%		9019/15000 [02:32<01:46, 56.13it/s]
60%		9026/15000 [02:32<01:43, 57.59it/s]
60%		9032/15000 [02:32<01:55, 51.45it/s]
60%		9039/15000 [02:32<01:49, 54.54it/s]
60%		9047/15000 [02:32<01:38, 60.30it/s]
60%		9054/15000 [02:33<01:36, 61.30it/s]
60%		9061/15000 [02:33<01:42, 58.22it/s]
60%		9069/15000 [02:33<01:35, 61.97it/s]
61%		9076/15000 [02:33<01:37, 60.92it/s]
61%		9084/15000 [02:33<01:30, 65.48it/s]
61%		9091/15000 [02:33<01:38, 60.19it/s]
61%		9099/15000 [02:33<01:31, 64.38it/s]
61%		9106/15000 [02:33<01:31, 64.76it/s]
61%		9113/15000 [02:34<01:38, 59.94it/s]
61%		9120/15000 [02:34<01:44, 56.02it/s]
61%		9126/15000 [02:34<01:42, 57.15it/s]
61%		9133/15000 [02:34<01:38, 59.61it/s]
61%		9140/15000 [02:34<01:36, 60.76it/s]
61%		9148/15000 [02:34<01:29, 65.47it/s]
61%		9157/15000 [02:34<01:24, 68.98it/s]

61%	9165/15000 [02:34<01:32, 63.31it/s]
61%	9172/15000 [02:34<01:35, 60.84it/s]
61%	9179/15000 [02:35<01:41, 57.15it/s]
61%	9185/15000 [02:35<01:44, 55.63it/s]
61%	9191/15000 [02:35<01:44, 55.37it/s]
61%	9198/15000 [02:35<01:39, 58.20it/s]
61%	9204/15000 [02:35<01:41, 57.04it/s]
61%	9210/15000 [02:35<01:51, 51.90it/s]
61%	9216/15000 [02:35<01:50, 52.13it/s]
61%	9222/15000 [02:35<01:56, 49.40it/s]
62%	9230/15000 [02:36<01:45, 54.68it/s]
62%	9236/15000 [02:36<01:55, 50.01it/s]
62%	9242/15000 [02:36<02:00, 47.60it/s]
62%	9249/15000 [02:36<01:50, 51.96it/s]
62%	9256/15000 [02:36<01:47, 53.26it/s]
62%	9264/15000 [02:36<01:38, 58.39it/s]
62%	9271/15000 [02:36<01:47, 53.19it/s]
62%	9277/15000 [02:36<01:55, 49.52it/s]
62%	9284/15000 [02:37<01:48, 52.61it/s]
62%	9290/15000 [02:37<01:47, 52.94it/s]
62%	9296/15000 [02:37<01:46, 53.74it/s]
62%	9302/15000 [02:37<01:48, 52.46it/s]
62%	9310/15000 [02:37<01:38, 57.53it/s]
62%	9318/15000 [02:37<01:35, 59.24it/s]
62%	9325/15000 [02:37<01:37, 57.99it/s]
62%	9331/15000 [02:37<01:44, 54.19it/s]
62%	9337/15000 [02:38<01:44, 54.26it/s]
62%	9345/15000 [02:38<01:44, 52.52it/s]

62%		9345/15000 [02:38<01:36, 58.52it/s]
62%		9352/15000 [02:38<01:33, 60.48it/s]
62%		9359/15000 [02:38<01:40, 55.86it/s]
62%		9366/15000 [02:38<01:37, 57.60it/s]
62%		9372/15000 [02:38<01:38, 56.86it/s]
63%		9379/15000 [02:38<01:37, 57.62it/s]
63%		9388/15000 [02:38<01:28, 63.56it/s]
63%		9395/15000 [02:38<01:34, 59.37it/s]
63%		9402/15000 [02:39<01:35, 58.56it/s]
63%		9409/15000 [02:39<01:34, 58.99it/s]
63%		9416/15000 [02:39<01:32, 60.49it/s]
63%		9423/15000 [02:39<01:35, 58.13it/s]
63%		9429/15000 [02:39<01:40, 55.43it/s]
63%		9435/15000 [02:39<01:46, 52.32it/s]
63%		9442/15000 [02:39<01:43, 53.54it/s]
63%		9448/15000 [02:39<01:45, 52.53it/s]
63%		9454/15000 [02:40<01:49, 50.78it/s]
63%		9461/15000 [02:40<01:41, 54.83it/s]
63%		9468/15000 [02:40<01:38, 56.38it/s]
63%		9475/15000 [02:40<01:33, 59.30it/s]
63%		9482/15000 [02:40<01:33, 58.95it/s]
63%		9488/15000 [02:40<01:46, 51.88it/s]
63%		9496/15000 [02:40<01:35, 57.86it/s]
63%		9503/15000 [02:40<01:31, 60.01it/s]
63%		9510/15000 [02:41<01:39, 55.26it/s]
63%		9517/15000 [02:41<01:36, 56.96it/s]
63%		9524/15000 [02:41<01:32, 59.43it/s]
64%		9531/15000 [02:41<01:37, 55.98it/s]

64% ███████████	9537/15000 [02:41<01:43, 52.86it/s]
64% ███████████	9545/15000 [02:41<01:35, 57.10it/s]
64% ███████████	9552/15000 [02:41<01:33, 58.02it/s]
64% ███████████	9558/15000 [02:41<01:36, 56.33it/s]
64% ███████████	9565/15000 [02:41<01:30, 59.78it/s]
64% ███████████	9572/15000 [02:42<01:34, 57.17it/s]
64% ███████████	9579/15000 [02:42<01:32, 58.39it/s]
64% ███████████	9588/15000 [02:42<01:24, 64.33it/s]
64% ███████████	9595/15000 [02:42<01:32, 58.62it/s]
64% ███████████	9603/15000 [02:42<01:29, 60.02it/s]
64% ███████████	9610/15000 [02:42<01:31, 58.93it/s]
64% ███████████	9617/15000 [02:42<01:35, 56.43it/s]
64% ███████████	9623/15000 [02:42<01:45, 50.98it/s]
64% ███████████	9629/15000 [02:43<01:55, 46.47it/s]
64% ███████████	9635/15000 [02:43<01:51, 48.02it/s]
64% ███████████	9642/15000 [02:43<01:42, 52.42it/s]
64% ███████████	9648/15000 [02:43<01:38, 54.45it/s]
64% ███████████	9656/15000 [02:43<01:32, 57.67it/s]
64% ███████████	9662/15000 [02:43<01:32, 57.68it/s]
64% ███████████	9668/15000 [02:43<01:34, 56.62it/s]
65% ███████████	9677/15000 [02:43<01:25, 62.16it/s]
65% ███████████	9685/15000 [02:44<01:23, 63.35it/s]
65% ███████████	9692/15000 [02:44<01:27, 60.76it/s]
65% ███████████	9700/15000 [02:44<01:21, 64.74it/s]
65% ███████████	9710/15000 [02:44<01:14, 70.75it/s]
65% ███████████	9718/15000 [02:44<01:23, 63.58it/s]
65% ███████████	9725/15000 [02:44<01:24, 62.46it/s]
65% ███████████	9732/15000 [02:44<01:25, 61.25it/s]

65%		9732/15000 [02:44<01:25, 61.85it/s]
65%		9740/15000 [02:44<01:24, 62.24it/s]
65%		9748/15000 [02:44<01:18, 66.64it/s]
65%		9755/15000 [02:45<01:22, 63.83it/s]
65%		9762/15000 [02:45<01:28, 58.94it/s]
65%		9773/15000 [02:45<01:18, 66.46it/s]
65%		9781/15000 [02:45<01:22, 63.37it/s]
65%		9788/15000 [02:45<01:22, 63.43it/s]
65%		9795/15000 [02:45<01:21, 63.50it/s]
65%		9802/15000 [02:45<01:46, 48.79it/s]
65%		9808/15000 [02:46<01:42, 50.80it/s]
65%		9817/15000 [02:46<01:30, 57.14it/s]
65%		9824/15000 [02:46<01:33, 55.49it/s]
66%		9831/15000 [02:46<01:29, 58.03it/s]
66%		9838/15000 [02:46<01:29, 57.60it/s]
66%		9845/15000 [02:46<01:27, 58.88it/s]
66%		9852/15000 [02:46<01:23, 61.56it/s]
66%		9859/15000 [02:46<01:29, 57.53it/s]
66%		9865/15000 [02:46<01:29, 57.64it/s]
66%		9871/15000 [02:47<01:28, 58.24it/s]
66%		9877/15000 [02:47<01:28, 57.77it/s]
66%		9883/15000 [02:47<01:35, 53.68it/s]
66%		9889/15000 [02:47<01:44, 48.75it/s]
66%		9898/15000 [02:47<01:30, 56.38it/s]
66%		9905/15000 [02:47<01:25, 59.85it/s]
66%		9912/15000 [02:47<01:21, 62.56it/s]
66%		9919/15000 [02:47<01:26, 58.89it/s]
66%		9927/15000 [02:48<01:20, 62.94it/s]

66%|

| 9934/15000 [02:48<01:22, 61.21it/s]

66%|

| 9941/15000 [02:48<01:25, 59.00it/s]

66%|

| 9948/15000 [02:48<01:26, 58.11it/s]

66%|
s]

| 9954/15000 [02:48<01:35, 52.70it/s]
| 9961/15000 [02:48<01:29, 56.40it/s]

66%|
s]

| 9967/15000 [02:48<01:35, 52.97it/s]
| 9978/15000 [02:48<01:20, 62.72it/s]

67%|
s]

| 9986/15000 [02:49<01:29, 55.81it/s]
| 9993/15000 [02:49<01:28, 56.59it/s]

67%|
]

| 10000/15000 [02:49<01:31, 54.45it/s]
| 10010/15000 [02:49<01:19, 63.04it/s]

67%|
]

| 10018/15000 [02:49<01:19, 62.58it/s]
| 10025/15000 [02:49<01:35, 52.14it/s]

67%|
]

| 10031/15000 [02:49<01:37, 51.07it/s]
| 10037/15000 [02:49<01:32, 53.42it/s]

67%|
]

| 10043/15000 [02:50<01:34, 52.32it/s]
| 10051/15000 [02:50<01:24, 58.37it/s]

67%|
]

| 10058/15000 [02:50<01:25, 57.79it/s]
| 10065/15000 [02:50<01:22, 59.47it/s]

67%|
]

| 10072/15000 [02:50<01:33, 52.93it/s]
| 10078/15000 [02:50<01:39, 49.43it/s]

67%|
]

| 10086/15000 [02:50<01:29, 54.73it/s]
| 10086/15000 [02:50<01:29, 54.73it/s]

67% [redacted] s]	10092/15000 [02:50<01:29, 54.63it/
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67% [redacted] s]	10107/15000 [02:51<01:22, 59.03it/
67% [redacted] s]	10114/15000 [02:51<01:31, 53.33it/
67% [redacted] s]	10120/15000 [02:51<01:35, 51.05it/
68% [redacted] s]	10126/15000 [02:51<01:34, 51.55it/
68% [redacted] s]	10133/15000 [02:51<01:27, 55.61it/
68% [redacted] s]	10139/15000 [02:51<01:31, 52.88it/
68% [redacted] s]	10145/15000 [02:51<01:35, 50.97it/
68% [redacted] s]	10151/15000 [02:52<01:48, 44.72it/
68% [redacted] s]	10159/15000 [02:52<01:35, 50.69it/
68% [redacted] s]	10166/15000 [02:52<01:27, 55.17it/
68% [redacted] s]	10175/15000 [02:52<01:18, 61.34it/
68% [redacted] s]	10182/15000 [02:52<01:20, 59.56it/
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68% [redacted] s]	10196/15000 [02:52<01:29, 53.57it/
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68% [redacted] s]	10209/15000 [02:53<01:25, 56.33it/
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69% t/s]	10339/15000 [02:55<01:23, 55.92i
69% t/s]	10346/15000 [02:55<01:19, 58.61i
69% t/s]	10353/15000 [02:55<01:17, 60.01i
69% t/s]	10360/15000 [02:55<01:48, 42.85i
69% t/s]	10366/15000 [02:55<01:49, 42.48i

69%|
t/s]

| 10371/15000 [02:56<01:44, 44.38i

69%|
t/s]

| 10376/15000 [02:56<01:43, 44.86i

69%|
t/s]

| 10385/15000 [02:56<01:28, 51.92i

69%|
t/s]

| 10391/15000 [02:56<01:25, 54.07i

69%|
t/s]

| 10398/15000 [02:56<01:21, 56.53i

69%|
t/s]

| 10405/15000 [02:56<01:18, 58.24i

69%|
t/s]

| 10412/15000 [02:56<01:17, 59.54i

69%|
t/s]

| 10420/15000 [02:56<01:16, 60.06i

70%|
t/s]

| 10428/15000 [02:56<01:10, 64.90i

70%|
t/s]

| 10435/15000 [02:57<01:14, 61.17i

70%|
t/s]

| 10442/15000 [02:57<01:18, 58.21i

70%|
t/s]

| 10449/15000 [02:57<01:14, 61.30i

70%|
t/s]

| 10456/15000 [02:57<01:19, 57.21i

70%|
t/s]

| 10464/15000 [02:57<01:13, 61.34i

70%|
t/s]

| 10471/15000 [02:57<01:16, 59.50i

70%|
t/s]

| 10478/15000 [02:57<01:16, 59.09i

70%|
t/s]

| 10485/15000 [02:57<01:16, 59.06i

70%|
0it/s]

| 10491/15000 [02:58<01:23, 54.3

70%|
3it/s]

| 10498/15000 [02:58<01:19, 56.3

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5it/s]

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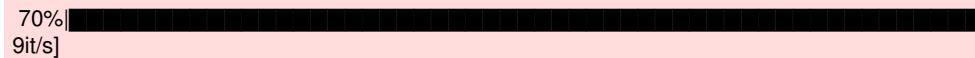
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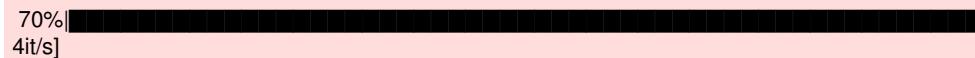
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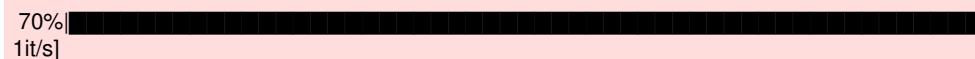
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| 10613/15000 [03:00<01:27, 50.2



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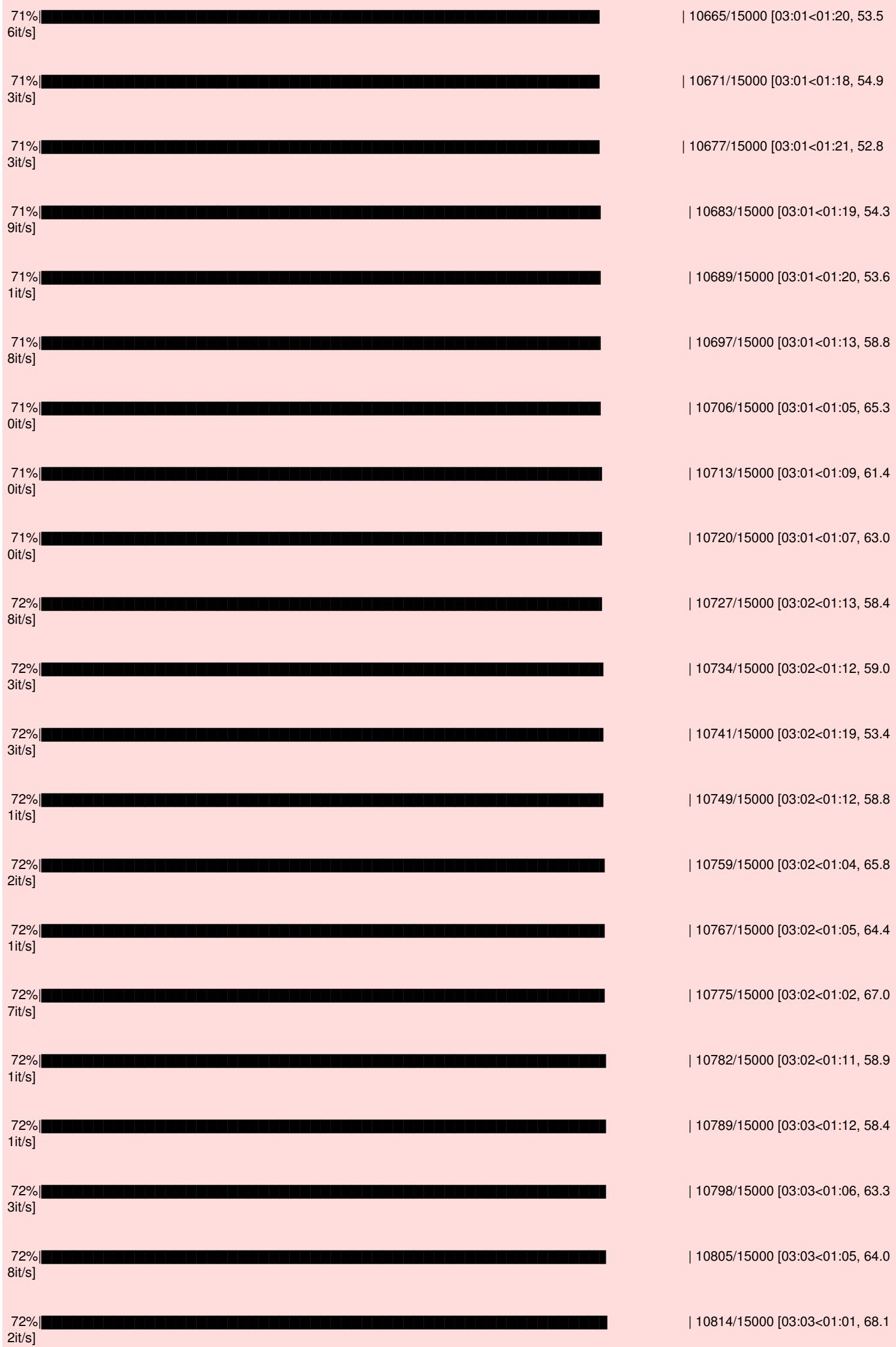
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| 10651/15000 [03:00<01:08, 63.0



| 10658/15000 [03:00<01:27, 49.6



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72% [redacted] 0it/s]	10829/15000 [03:03<01:04, 65.1
72% [redacted] 3it/s]	10836/15000 [03:03<01:07, 61.6
72% [redacted] 1it/s]	10843/15000 [03:03<01:06, 62.2
72% [redacted] 0it/s]	10850/15000 [03:03<01:04, 64.3
72% [redacted] 8it/s]	10857/15000 [03:04<01:08, 60.7
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72% [redacted] 6it/s]	10871/15000 [03:04<01:08, 60.5
73% [redacted] 4it/s]	10878/15000 [03:04<01:07, 61.4
73% [redacted] 51it/s]	10885/15000 [03:04<01:11, 57.
73% [redacted] 79it/s]	10892/15000 [03:04<01:11, 57.
73% [redacted] 91it/s]	10898/15000 [03:04<01:12, 56.
73% [redacted] 39it/s]	10904/15000 [03:04<01:15, 54.
73% [redacted] 31it/s]	10910/15000 [03:05<01:13, 55.
73% [redacted] 23it/s]	10916/15000 [03:05<01:34, 43.
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73% [redacted] 37it/s]	10932/15000 [03:05<01:13, 55.
73% [redacted] 38it/s]	10939/15000 [03:05<01:10, 57.
73% [redacted] 88it/s]	10946/15000 [03:05<01:16, 52.
73% [redacted] 62it/s]	10955/15000 [03:05<01:09, 58.
73% [redacted]	10963/15000 [03:05<01:04, 62.

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73% 32it/s]	10978/15000 [03:06<01:05, 61.
73% 25it/s]	10986/15000 [03:06<01:01, 65.
73% 31it/s]	10993/15000 [03:06<01:09, 57.
73% 04it/s]	11000/15000 [03:06<01:10, 57.
73% 99it/s]	11006/15000 [03:06<01:13, 53.
73% 92it/s]	11015/15000 [03:06<01:06, 59.
73% 00it/s]	11022/15000 [03:06<01:04, 62.
74% 39it/s]	11029/15000 [03:07<01:04, 61.
74% 56it/s]	11036/15000 [03:07<01:05, 60.
74% 39it/s]	11043/15000 [03:07<01:10, 56.
74% 08it/s]	11050/15000 [03:07<01:06, 59.
74% 46it/s]	11057/15000 [03:07<01:08, 57.
74% 20it/s]	11063/15000 [03:07<01:11, 55.
74% 34it/s]	11071/15000 [03:07<01:05, 60.
74% 2.59it/s]	11078/15000 [03:07<01:02, 6
74% 0.27it/s]	11085/15000 [03:07<01:04, 6
74% 6.27it/s]	11092/15000 [03:08<01:09, 5
74% 6.82it/s]	11099/15000 [03:08<01:08, 5
74% 3.78it/s]	11105/15000 [03:08<01:12, 5

74%|
2.53it/s]

| 11111/15000 [03:08<01:14, 5

74%|
4.16it/s]

| 11118/15000 [03:08<01:11, 5

74%|
2.87it/s]

| 11124/15000 [03:08<01:13, 5

74%|
1.49it/s]

| 11130/15000 [03:08<01:15, 5

74%|
2.71it/s]

| 11136/15000 [03:09<01:30, 4

74%|
3.48it/s]

| 11141/15000 [03:09<01:28, 4

74%|
9.44it/s]

| 11149/15000 [03:09<01:17, 4

74%|
2.97it/s]

| 11156/15000 [03:09<01:12, 5

74%|
1.27it/s]

| 11162/15000 [03:09<01:14, 5

74%|
8.41it/s]

| 11171/15000 [03:09<01:05, 5

75%|
9.22it/s]

| 11178/15000 [03:09<01:04, 5

75%|
0.57it/s]

| 11185/15000 [03:09<01:02, 6

75%|
4.81it/s]

| 11192/15000 [03:09<01:09, 5

75%|
0.50it/s]

| 11200/15000 [03:10<01:02, 6

75%|
9.88it/s]

| 11207/15000 [03:10<01:03, 5

75%|
0.29it/s]

| 11214/15000 [03:10<01:02, 6

75%|
5.42it/s]

| 11221/15000 [03:10<01:08, 5

75%|
3.68it/s]

| 11227/15000 [03:10<01:10, 5

75%|
9.93it/s]

| 11233/15000 [03:10<01:15, 4

75%|
3.86it/s]

| 11240/15000 [03:10<01:09, 5

75%|
1.23it/s]

| 11249/15000 [03:10<01:01, 6

75% 4.25it/s]	11256/15000 [03:11<01:09, 5
75% 4.26it/s]	11262/15000 [03:11<01:08, 5
75% 9.27it/s]	11270/15000 [03:11<01:02, 5
75% 54.82it/s]	11277/15000 [03:11<01:07,
75% 58.27it/s]	11284/15000 [03:11<01:03,
75% 54.53it/s]	11291/15000 [03:11<01:08,
75% 48.31it/s]	11297/15000 [03:11<01:16,
75% 49.94it/s]	11303/15000 [03:11<01:14,
75% 49.38it/s]	11309/15000 [03:12<01:14,
75% 49.00it/s]	11315/15000 [03:12<01:15,
75% 47.24it/s]	11321/15000 [03:12<01:17,
76% 55.77it/s]	11331/15000 [03:12<01:05,
76% 58.69it/s]	11338/15000 [03:12<01:02,
76% 60.04it/s]	11345/15000 [03:12<01:00,
76% 61.03it/s]	11352/15000 [03:12<00:59,
76% 57.94it/s]	11359/15000 [03:12<01:02,
76% 57.90it/s]	11366/15000 [03:13<01:02,
76% 56.83it/s]	11372/15000 [03:13<01:03,
76% 56.15it/s]	11378/15000 [03:13<01:04,
76% 52.74it/s]	11384/15000 [03:13<01:08,

76% 55.47it/s]	11391/15000 [03:13<01:05,
76% 60.65it/s]	11399/15000 [03:13<00:59,
76% 60.61it/s]	11406/15000 [03:13<00:59,
76% 67.13it/s]	11415/15000 [03:13<00:53,
76% 67.01it/s]	11423/15000 [03:13<00:53,
76% 62.41it/s]	11430/15000 [03:14<00:57,
76% 62.78it/s]	11437/15000 [03:14<00:56,
76% 62.42it/s]	11444/15000 [03:14<00:56,
76% 61.07it/s]	11451/15000 [03:14<00:58,
76% 62.48it/s]	11458/15000 [03:14<00:56,
76% 63.88it/s]	11465/15000 [03:14<00:55,
76% 67.00it/s]	11473/15000 [03:14<00:52,
77% 64.72it/s]	11480/15000 [03:14<00:54,
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77% 60.98it/s]	11494/15000 [03:15<00:57,
77% 61.56it/s]	11501/15000 [03:15<00:56,
77% 65.53it/s]	11509/15000 [03:15<00:53,
77% 70.93it/s]	11518/15000 [03:15<00:49,
77% 62.63it/s]	11526/15000 [03:15<00:55,
77% 62.15it/s]	11533/15000 [03:15<00:55,
77% 66.07it/s]	11541/15000 [03:15<00:52,

77%|
68.59it/s]

| 11549/15000 [03:15<00:50,

77%|
67.27it/s]

| 11557/15000 [03:16<00:51,

77%|
65.09it/s]

| 11564/15000 [03:16<00:52,

77%|
61.28it/s]

| 11571/15000 [03:16<00:55,

77%|
58.27it/s]

| 11578/15000 [03:16<00:58,

77%|
60.34it/s]

| 11585/15000 [03:16<00:56,

77%|
55.69it/s]

| 11592/15000 [03:16<01:01,

77%|
53.55it/s]

| 11598/15000 [03:16<01:03,

77%|
57.56it/s]

| 11606/15000 [03:16<00:58,

77%|
54.96it/s]

| 11612/15000 [03:17<01:01,

77%|
54.28it/s]

| 11618/15000 [03:17<01:02,

77%|
50.95it/s]

| 11624/15000 [03:17<01:06,

78%|
52.70it/s]

| 11630/15000 [03:17<01:03,

78%|
52.49it/s]

| 11636/15000 [03:17<01:04,

78%|
56.94it/s]

| 11644/15000 [03:17<00:58,

78%|
56.40it/s]

| 11650/15000 [03:17<00:59,

78%|
49.41it/s]

| 11656/15000 [03:17<01:07,

78%|
53.24it/s]

| 11663/15000 [03:17<01:02,

78%|
52.68it/s]

| 11669/15000 [03:18<01:03,

78%|
, 56.91it/s]

| 11677/15000 [03:18<00:58

78%|
52.68it/s]

| 11686/15000 [03:18<00:55

, 59.92it/s]		
78% , 56.06it/s]	11693/15000 [03:18<00:58	
78% , 61.56it/s]	11701/15000 [03:18<00:53	
78% , 63.82it/s]	11708/15000 [03:18<00:51	
78% , 65.01it/s]	11715/15000 [03:18<00:50	
78% , 60.51it/s]	11722/15000 [03:18<00:54	
78% , 64.32it/s]	11730/15000 [03:19<00:50	
78% , 62.42it/s]	11737/15000 [03:19<00:52	
78% , 62.10it/s]	11744/15000 [03:19<00:52	
78% , 59.37it/s]	11751/15000 [03:19<00:54	
78% , 61.98it/s]	11759/15000 [03:19<00:52	
78% , 65.78it/s]	11767/15000 [03:19<00:49	
78% , 64.11it/s]	11774/15000 [03:19<00:50	
79% , 64.62it/s]	11781/15000 [03:19<00:49	
79% , 62.32it/s]	11788/15000 [03:19<00:51	
79% , 68.07it/s]	11797/15000 [03:20<00:47	
79% , 66.19it/s]	11805/15000 [03:20<00:48	
79% , 69.94it/s]	11814/15000 [03:20<00:45	
79% , 68.80it/s]	11822/15000 [03:20<00:46	
79% , 67.01it/s]	11830/15000 [03:20<00:47	
79% , 63.50it/s]	11837/15000 [03:20<00:49	

79% , 59.61it/s]	11844/15000 [03:20<00:52
79% , 61.04it/s]	11851/15000 [03:20<00:51
79% , 57.35it/s]	11858/15000 [03:21<00:54
79% , 63.04it/s]	11867/15000 [03:21<00:4
79% , 52.96it/s]	11874/15000 [03:21<00:5
79% , 57.95it/s]	11882/15000 [03:21<00:5
79% , 62.40it/s]	11890/15000 [03:21<00:4
79% , 63.52it/s]	11898/15000 [03:21<00:4
79% , 67.63it/s]	11906/15000 [03:21<00:4
79% , 65.64it/s]	11914/15000 [03:21<00:4
79% , 64.27it/s]	11921/15000 [03:22<00:4
80% , 59.26it/s]	11928/15000 [03:22<00:5
80% , 64.25it/s]	11936/15000 [03:22<00:4
80% , 65.78it/s]	11944/15000 [03:22<00:4
80% , 66.85it/s]	11951/15000 [03:22<00:4
80% , 62.29it/s]	11958/15000 [03:22<00:4
80% , 62.34it/s]	11966/15000 [03:22<00:4
80% , 62.36it/s]	11973/15000 [03:22<00:4
80% , 61.10it/s]	11980/15000 [03:22<00:4
80% , 57.32it/s]	11987/15000 [03:23<00:5
80% , 61.17it/s]	11995/15000 [03:23<00:4

80% [6, 64.22it/s]	12003/15000 [03:23<00:4
80% [5, 65.94it/s]	12011/15000 [03:23<00:4
80% [1, 57.44it/s]	12018/15000 [03:23<00:5
80% [7, 62.48it/s]	12028/15000 [03:23<00:4
80% [2, 56.85it/s]	12035/15000 [03:23<00:5
80% [0, 58.92it/s]	12042/15000 [03:23<00:5
80% [0, 58.94it/s]	12049/15000 [03:24<00:5
80% [2, 56.26it/s]	12056/15000 [03:24<00:5
80% [8, 60.40it/s]	12064/15000 [03:24<00:4
80% [49, 59.51it/s]	12071/15000 [03:24<00:
81% [49, 59.35it/s]	12078/15000 [03:24<00:
81% [48, 59.69it/s]	12085/15000 [03:24<00:
81% [50, 57.86it/s]	12092/15000 [03:24<00:
81% [51, 56.87it/s]	12098/15000 [03:24<00:
81% [59, 48.81it/s]	12104/15000 [03:25<00:
81% [57, 50.69it/s]	12110/15000 [03:25<00:
81% [52, 54.93it/s]	12117/15000 [03:25<00:
81% [48, 58.92it/s]	12125/15000 [03:25<00:
81% [52, 54.42it/s]	12132/15000 [03:25<00:
81% [50, 56.79it/s]	12139/15000 [03:25<00:
81% [12146/15000 [03:25<00:

48, 58.39it/s]

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81%	44, 63.32it/s]	12172/15000 [03:26<00:
81%	41, 67.53it/s]	12180/15000 [03:26<00:
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81%	45, 61.32it/s]	12195/15000 [03:26<00:
81%	48, 58.02it/s]	12202/15000 [03:26<00:
81%	46, 59.70it/s]	12209/15000 [03:26<00:
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81%	43, 64.19it/s]	12224/15000 [03:26<00:
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82%	44, 61.81it/s]	12246/15000 [03:27<00:
82%	45, 60.15it/s]	12253/15000 [03:27<00:
82%	:41, 65.52it/s]	12262/15000 [03:27<00:
82%	:42, 64.46it/s]	12269/15000 [03:27<00
82%	:46, 58.77it/s]	12276/15000 [03:27<00
82%	:48, 56.02it/s]	12283/15000 [03:27<00
82%	:51, 52.97it/s]	12289/15000 [03:28<00
82%	:45, 59.86it/s]	12298/15000 [03:28<00

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82% :48, 55.62it/s]	12318/15000 [03:28<00
82% :51, 52.31it/s]	12324/15000 [03:28<00
82% :45, 58.83it/s]	12333/15000 [03:28<00
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83% :44, 58.65it/s]	12390/15000 [03:29<00
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83% :42, 60.34it/s]	12423/15000 [03:30<00
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83% 0:42, 57.59it/s]	12524/15000 [03:32<0
84% 0:44, 55.28it/s]	12530/15000 [03:32<0
84% 0:39, 62.80it/s]	12540/15000 [03:32<0
84% 0:40, 60.33it/s]	12547/15000 [03:32<0
84% 0:37, 64.86it/s]	12555/15000 [03:32<0
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84% 0:38, 62.27it/s]	12577/15000 [03:32<0
84% 0:39, 61.58it/s]	12584/15000 [03:32<0
84% 0:38, 63.21it/s]	12591/15000 [03:33<0
84% 0:44, 54.47it/s]	12598/15000 [03:33<0
84%	12606/15000 [03:33<0

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84% 0:42, 55.26it/s]	12628/15000 [03:33<0
84% 0:42, 56.25it/s]	12634/15000 [03:33<0
84% 0:41, 57.19it/s]	12641/15000 [03:33<0
84% 0:40, 57.52it/s]	12648/15000 [03:34<0
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84% 00:39, 59.63it/s]	12669/15000 [03:34<0
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85% 00:41, 55.24it/s]	12714/15000 [03:35<0
85% 00:42, 53.32it/s]	12720/15000 [03:35<0
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85% 00:35, 64.18it/s]	12742/15000 [03:35<0

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86% 00:34, 61.98it/s]	12844/15000 [03:37<
86% 00:38, 56.46it/s]	12851/15000 [03:37<
86% <00:36, 59.45it/s]	12858/15000 [03:37
86% <00:37, 57.47it/s]	12865/15000 [03:37
86% <00:36, 58.37it/s]	12872/15000 [03:37
86% <00:33, 63.47it/s]	12880/15000 [03:38
86% <00:35, 60.27it/s]	12887/15000 [03:38
86% <00:37, 56.75it/s]	12894/15000 [03:38

86% <00:37, 56.05it/s]	12900/15000 [03:38
86% <00:33, 62.75it/s]	12909/15000 [03:38
86% <00:32, 63.61it/s]	12916/15000 [03:38
86% <00:33, 62.00it/s]	12923/15000 [03:38
86% <00:31, 66.22it/s]	12932/15000 [03:38
86% <00:32, 63.01it/s]	12939/15000 [03:38
86% <00:32, 62.91it/s]	12946/15000 [03:39
86% <00:30, 67.09it/s]	12954/15000 [03:39
86% <00:30, 67.02it/s]	12961/15000 [03:39
86% <00:32, 62.49it/s]	12968/15000 [03:39
86% <00:35, 57.62it/s]	12975/15000 [03:39
87% <00:33, 60.11it/s]	12982/15000 [03:39
87% <00:38, 52.20it/s]	12989/15000 [03:39
87% <00:34, 58.34it/s]	12998/15000 [03:39
87% <00:32, 60.73it/s]	13005/15000 [03:40
87% <00:32, 60.58it/s]	13012/15000 [03:40
87% <00:37, 53.37it/s]	13019/15000 [03:40
87% <00:39, 50.64it/s]	13025/15000 [03:40
87% <00:36, 53.73it/s]	13032/15000 [03:40
87% <00:33, 58.46it/s]	13040/15000 [03:40

87% <00:32, 59.53it/s]	13047/15000 [03:40]
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87% 1<00:31, 60.83it/s]	13062/15000 [03:4]
87% 1<00:30, 62.47it/s]	13069/15000 [03:4]
87% 1<00:32, 59.44it/s]	13076/15000 [03:4]
87% 1<00:31, 61.69it/s]	13083/15000 [03:4]
87% 1<00:33, 57.61it/s]	13090/15000 [03:4]
87% 1<00:35, 52.96it/s]	13096/15000 [03:4]
87% 1<00:32, 58.87it/s]	13104/15000 [03:4]
87% 1<00:32, 58.57it/s]	13111/15000 [03:4]
87% 1<00:32, 58.46it/s]	13118/15000 [03:4]
88% 2<00:29, 63.47it/s]	13127/15000 [03:4]
88% 2<00:29, 62.47it/s]	13134/15000 [03:4]
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88% 2<00:34, 54.17it/s]	13156/15000 [03:4]
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88% [44<00:25, 67.52it/s]	13268/15000 [03:
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89% [44<00:23, 73.30it/s]	13303/15000 [03:
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45<00:27, 59.33it/s]

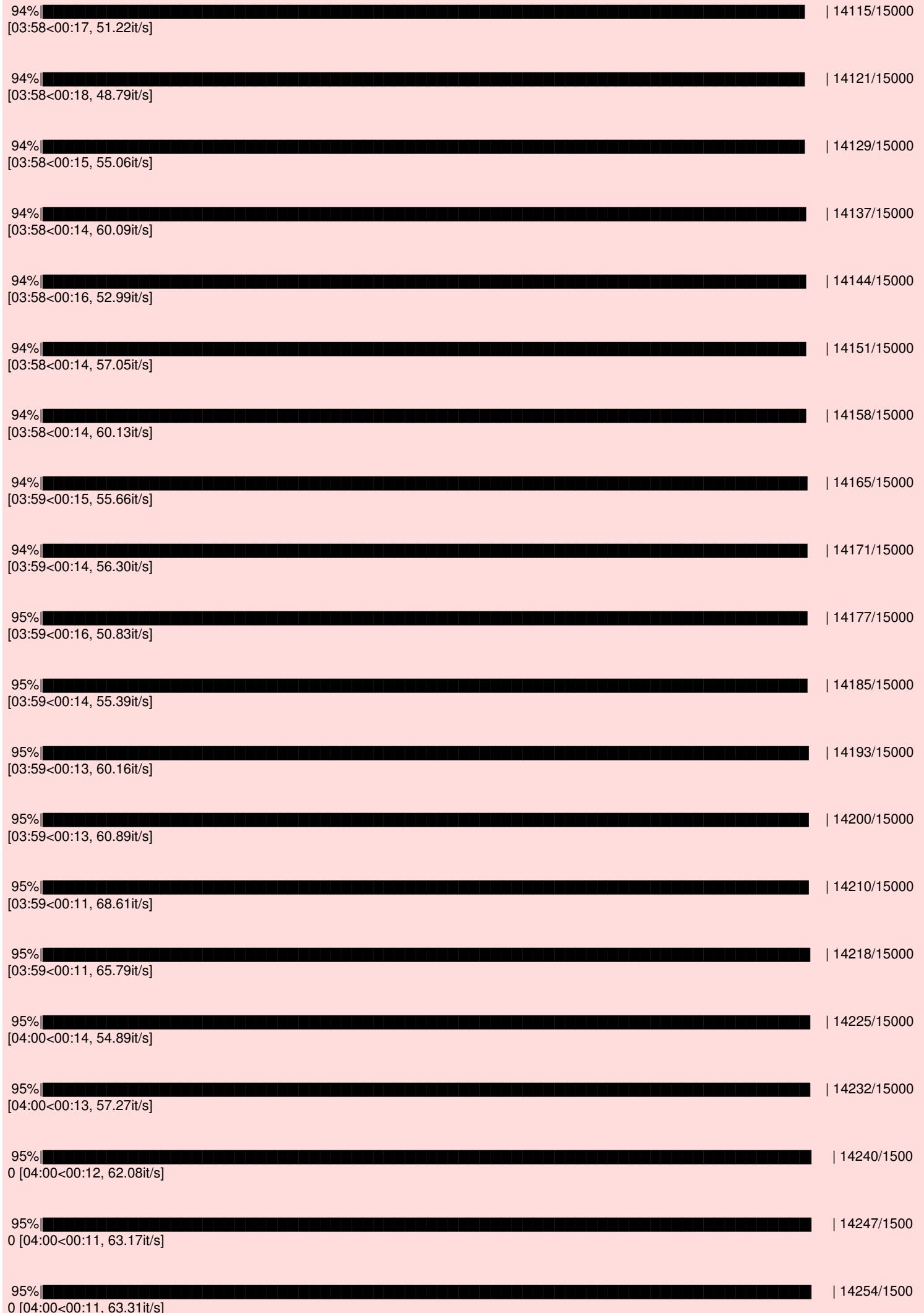
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00 [04:07<00:04, 63.09it/s] | 14690/150

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98%|
00 [04:07<00:04, 67.13it/s] | 14706/150



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000 [04:12<00:00, 60.86it/s]

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000 [04:12<00:00, 59.31it/s]

In [315]:

```
Set1_tfidf2vec_Xtrain = hstack((categories_one_hot, subcategories_one_hot, state_one_hot, grade_one_hot, teacher_one_hot, normalized_price_Xtrain, normalized_teacherspost_Xtrain, normalized_qty_Xtrain, tfidf_w2v_vectors_essay, tfidf_w2v_vectors))
Set1_tfidf2vec_Xcv = hstack((categories_one_hot_Xcv, subcategories_one_hot_Xcv, state_one_hot_Xcv, grade_one_hot_Xcv, teacher_one_hot_Xcv, normalized_price_Xcv, normalized_teacherspost_Xcv, normalized_qty_Xcv, tfidf_w2v_vectors_essay_cv, tfidf_w2v_vectors_cv))
Set1_tfidf2vec_Xtest = hstack((categories_one_hot_Xtest, subcategories_one_hot_Xtest, state_one_hot_Xtest, grade_one_hot_Xtest, teacher_one_hot_Xtest, normalized_price_Xtest, normalized_teacherspost_Xtest, normalized_qty_Xtest, tfidf_w2v_vectors_essay_test, tfidf_w2v_vectors_test))
```

In [316]:

```
X_train_tfidf2vec_new = Set1_tfidf2vec_Xtrain.toarray()
X_cv_tfidf2vec_new = Set1_tfidf2vec_Xcv.toarray()
X_test_tfidf2vec_new = Set1_tfidf2vec_Xtest.toarray()
```

In [317]:

```
print(X_train_tfidf2vec_new.shape)
print(X_cv_tfidf2vec_new.shape)
print(X_test_tfidf2vec_new.shape)
```

```
(24500, 203)
(10500, 203)
(15000, 203)
```

In []:

```
#Training to find best value of K for Tfidf2vec model
```

In [318]:

```
train7_auc = []
cv7_auc = []
K7 = [3, 15, 25, 51, 101]
for i in tqdm(K7):
    neigh7 = KNeighborsClassifier(n_neighbors=i, algorithm='brute', n_jobs=-1)
    neigh7.fit(X_train_tfidf2vec_new, y_train)

    y_train_pred = batch_predict(neigh7, X_train_tfidf2vec_new)
    y_cv_pred = batch_predict(neigh7, X_cv_tfidf2vec_new)

    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
    # not the predicted outputs
    train7_auc.append(roc_auc_score(y_train, y_train_pred))
    cv7_auc.append(roc_auc_score(y_cv, y_cv_pred))

plt.plot(K7, train7_auc, label='Train AUC')
plt.plot(K7, cv7_auc, label='CV AUC')

plt.scatter(K7, train7_auc, label='Train AUC points')
plt.scatter(K7, cv7_auc, label='CV AUC points')

plt.legend()
plt.xlabel("K: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```

0%|

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| 1/5 [02:28<09:53, 148.48s/it]

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| 2/5 [05:05<07:33, 151.06s/it]

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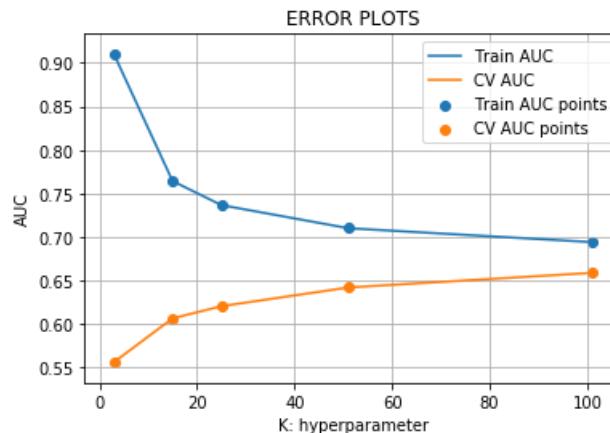
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| 4/5 [10:20<02:

24.154.16s/it]

100%
 █ 5/5 [12:58<00:00, 155.33s/it]



In [319]:

```
# Selecting the Value of Hyperparameter K as 101 since it provides the min difference in Train Auc And Cross Val AUC.
#Also during majority voting picking odd value of K gives clear winner in selecting class label
```

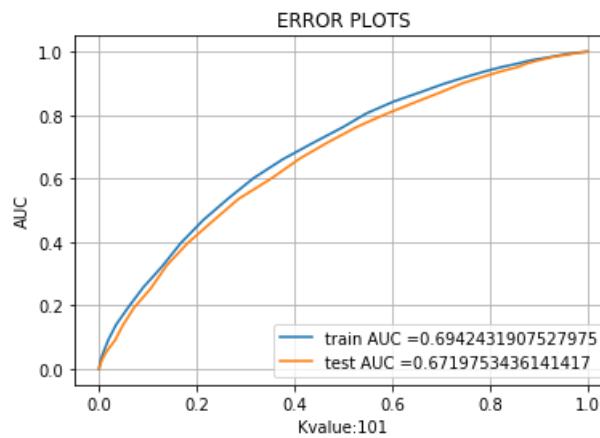
```
from sklearn.metrics import roc_curve, auc
```

```
neigh8 = KNeighborsClassifier(n_neighbors=101, algorithm='brute', n_jobs=-1)
neigh8.fit(X_train_tfidf2vec_new, y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
# not the predicted outputs

y_train_pred8 = batch_predict(neigh8, X_train_tfidf2vec_new)
y_test_pred8 = batch_predict(neigh8, X_test_tfidf2vec_new)

train_fpr8, train_tpr8, tr_thresholds8 = roc_curve(y_train, y_train_pred8)
test_fpr8, test_tpr8, te_thresholds8 = roc_curve(y_test, y_test_pred8)

plt.plot(train_fpr8, train_tpr8, label="train AUC =" + str(auc(train_fpr8, train_tpr8)))
plt.plot(test_fpr8, test_tpr8, label="test AUC =" + str(auc(test_fpr8, test_tpr8)))
plt.legend()
plt.xlabel("Kvalue:101")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```



In [320]:

```
print("*" * 100)
from sklearn.metrics import confusion_matrix
best_t3 = find_best_threshold(tr_thresholds8, train_fpr8, train_tpr8)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred8, best_t3)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred8, best_t3)))
```

```
=====
```

the maximum value of tpr*(1-fpr) 0.41221744265996363 for threshold 0.851

Train confusion matrix

```
[[ 2448 1475]
```

```
[ 6984 13593]]
```

Test confusion matrix

```
[[1414 988]
```

```
[4240 8358]]
```

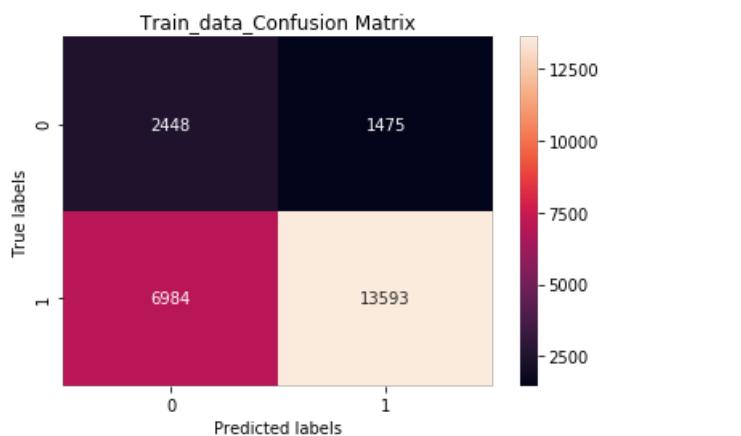
In [321]:

```
cm_tfidf2vec_train = confusion_matrix(y_train, predict_with_best_t(y_train_pred8, best_t3))
cm_tfidf2vec_test = confusion_matrix(y_test, predict_with_best_t(y_test_pred8, best_t3))
```

In [322]:

```
#Sea born heat map train confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf2vec_train, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

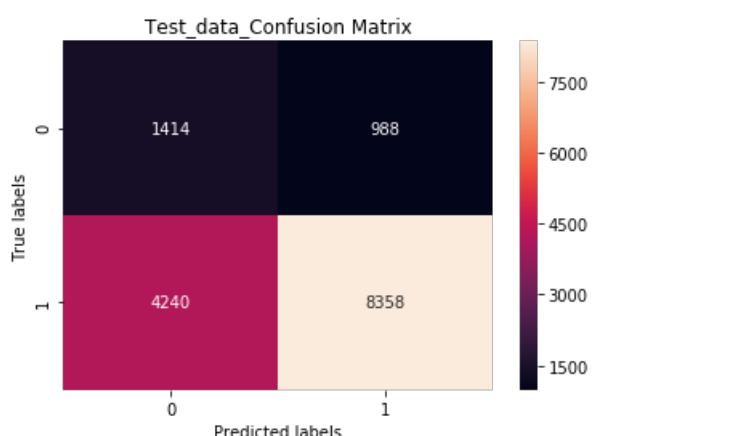
# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Train_data_Confusion Matrix');
```



In [333]:

```
#Sea born heat map test confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf2vec_test, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Test_data_Confusion Matrix');
```



2.5 Feature selection with `SelectKBest`

In []:

```
# please write all the code with proper documentation, and proper titles for each subsection
# go through documentations and blogs before you start coding
# first figure out what to do, and then think about how to do
```

```
# first figure out what to do, and then think about how to do.  
# reading and understanding error messages will be very much helpfull in debugging your code
```

```
# when you plot any graph make sure you use  
# a. Title, that describes your plot, this will be very helpful to the reader  
# b. Legends if needed  
# c. X-axis label  
# d. Y-axis label
```

In [324]:

```
print(X_train_tfidf_new.shape)
```

(24500, 10436)

In [325]:

```
#https://machinelearningmastery.com/feature-selection-machine-learning-python/  
from sklearn.feature_selection import SelectKBest, chi2
```

```
# feature extraction using selectkbest to get top 2000 feautures  
test = SelectKBest(chi2, k=2000)  
test.fit(X_train_tfidf_new, y_train)
```

```
Xtrain_filterd = test.transform(X_train_tfidf_new)
```

```
Xcv_filterd = test.transform(X_cv_tfidf_new)
```

```
Xtest_filterd = test.transform(X_test_tfidf_new)
```

```
print(Xtrain_filterd.shape)
```

```
print(Xcv_filterd.shape)
```

```
print(Xtest_filterd.shape)
```

```
# summarize scores
```

```
#np.set_printoptions(precision=3)
```

```
#Xtrain_filter = fit
```

(24500, 2000)

(10500, 2000)

(15000, 2000)

In []:

```
#Training to find value of K for TFIDF model with top 2000 features
```

In [326]:

```
train9_auc = []
```

```
cv9_auc = []
```

```
K9 = [3, 15, 25, 51, 101]
```

```
for i in tqdm(K9):
```

```
    neigh9 = KNeighborsClassifier(n_neighbors=i, algorithm='brute', n_jobs=-1)  
    neigh9.fit(Xtrain_filterd, y_train)
```

```
y_train_pred = batch_predict(neigh9, Xtrain_filterd)
```

```
y_cv_pred = batch_predict(neigh9, Xcv_filterd)
```

```
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class  
# not the predicted outputs
```

```
train9_auc.append(roc_auc_score(y_train, y_train_pred))  
cv9_auc.append(roc_auc_score(y_cv, y_cv_pred))
```

```
plt.plot(K9, train9_auc, label='Train AUC')
```

```
plt.plot(K9, cv9_auc, label='CV AUC')
```

```
plt.scatter(K9, train9_auc, label='Train AUC points')
```

```
plt.scatter(K9, cv9_auc, label='CV AUC points')
```

```
plt.legend()
```

```
plt.xlabel("K: hyperparameter")
```

```
plt.ylabel("AUC")
```

```
plt.title("ERROR PLOTS")
```

```
plt.grid()
```

```
plt.show()
```

40%|

| 2/5 [10:57<16:33, 331.12s/it]

60%|

| 3/5 [15:58<10:43, 321.95s/it]

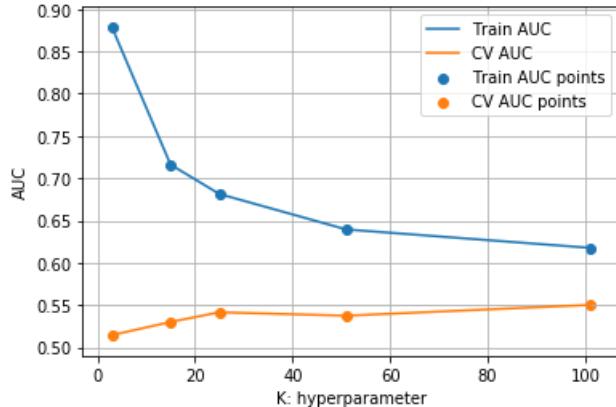
80%|

15, 315.04s/it]

| 4/5 [20:57<05:

100%|

■ 5/5 [25:52<00:00, 309.19s/it]

ERROR PLOTS

In [327]:

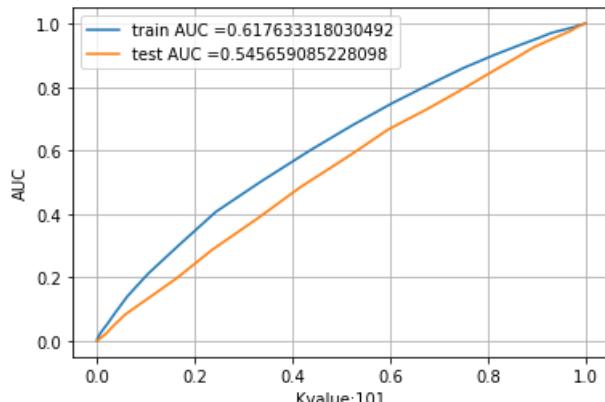
```
# Selecting the Value of Hyperparamter K as 101 since it provides the min differece in Train Auc And Cross Val AUC.
#Also during majority voting picking odd value of K gives clear winner in selcting class label
from sklearn.metrics import roc_curve, auc
```

```
neigh10 = KNeighborsClassifier(n_neighbors=101,algorithm='brute', n_jobs=-1)
neigh10.fit(Xtrain_filterd, y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the positive class
# not the predicted outputs

y_train_pred10 = batch_predict(neigh10, Xtrain_filterd)
y_test_pred10 = batch_predict(neigh10, Xtest_filterd)

train_fpr10, train_tpr10, tr_thresholds10 = roc_curve(y_train, y_train_pred10)
test_fpr10, test_tpr10, te_thresholds10 = roc_curve(y_test, y_test_pred10)

plt.plot(train_fpr10, train_tpr10, label="train AUC =" + str(auc(train_fpr10, train_tpr10)))
plt.plot(test_fpr10, test_tpr10, label="test AUC =" + str(auc(test_fpr10, test_tpr10)))
plt.legend()
plt.xlabel("Kvalue:101")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```

ERROR PLOTS

In [328]:

In [328]:

```
print("=*100)
from sklearn.metrics import confusion_matrix
best_t4 = find_best_threshold(tr_thresholds10, train_fpr10, train_tpr10)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred10, best_t4)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred10, best_t4)))
```

=====
the maximum value of tpr*(1-fpr) 0.3386582092608366 for threshold 0.842

Train confusion matrix

```
[[ 2210 1713]
 [ 8207 12370]]
```

Test confusion matrix

```
[[1159 1243]
 [5232 7366]]
```

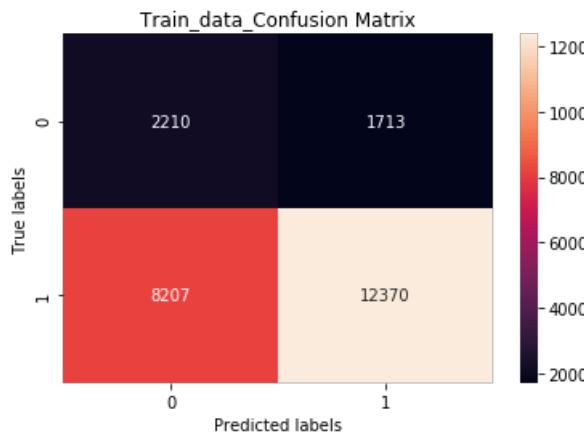
In [329]:

```
cm_tfidf2k_train = confusion_matrix(y_train, predict_with_best_t(y_train_pred10, best_t4))
cm_tfidf2k_test = confusion_matrix(y_test, predict_with_best_t(y_test_pred10, best_t4))
```

In [330]:

```
#Sea born heat map train confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf2k_train, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

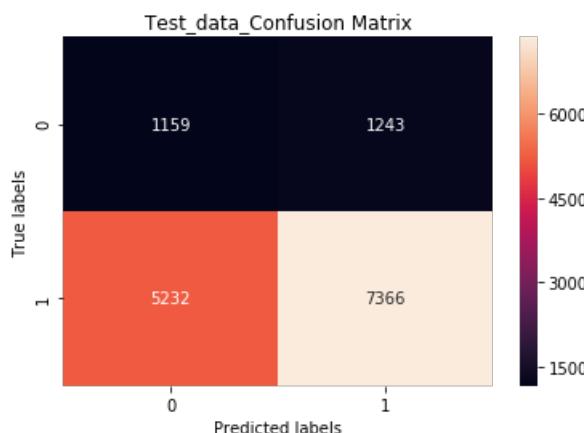
# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Train_data_Confusion Matrix');
```



In [331]:

```
#Sea born heat map train confusion matrix
ax= plt.subplot()
sns.heatmap(cm_tfidf2k_test, annot=True, ax = ax,fmt ='g'); #annot=True to annotate cells

# labels, title and ticks
ax.set_xlabel('Predicted labels');ax.set_ylabel('True labels');
ax.set_title('Test_data_Confusion Matrix');
```



In [339]:

```
##http://zetcode.com/python/prettytable/  
from prettytable import PrettyTable
```

```
x = PrettyTable()
```

In [340]:

```
x.field_names = ["Vectorizer", "Model", "Hyperparameter", "Test_AUC"]  
x.add_row(["BOW", "neigh1", 101, 64.207])  
x.add_row(["TFIDF", "neigh4", 101, 57.801])  
x.add_row(["AvgW2vec", "neigh6", 101, 64.015])  
x.add_row(["TFIDFW2vec", "neigh8", 101, 67.19])  
x.add_row(["TFIDF_KBest", "neigh10", 101, 54.565])
```

In [341]:

```
print(x)
```

Vectorizer	Model	Hyperparameter	Test_AUC
BOW	neigh1	101	64.207
TFIDF	neigh4	101	57.801
AvgW2vec	neigh6	101	64.015
TFIDFW2vec	neigh8	101	67.19
TFIDF_KBest	neigh10	101	54.565

3. Conclusions

- From the table above we can conclude that TFIDFW2vec provides the best performance .Since it provides better generalization.
- When Comparing TFIDF and TFIDF_Kbest,both gives more or less same performance since AUC are 57.801 and 54.565.But TFIDF_Kbest model will consume less memory since lesser no of feautures are present.So instead of going for TFIDF ,we can use TFIDF_Kbest instead of TFIDF