```
# Define the size of DP array
N = 10000
# Initialize DP array on GPU
dp = cp.zeros(N, dtype=cp.int32)
# Base cases
dp[0] = 1
dp[1] = 1
dp[2] = 1
dp[3] = 2
# Sequential loop on GPU with CuPy array
for i in range(4, N):
  dp[i] = dp[i - 1] + dp[i - 3] + dp[i - 4]
# Copy result to CPU and print first few values
result = cp.asnumpy(dp)
print(result[:20])
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Implement Non-Serial Polyadic Dynamic Programming With GPU Parallelization
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Step 1: Setup Google Colab
Go to Runtime > Change runtime type > GPU.
```

import cupy as cp