

3147. Taking Maximum Energy from the M

→ Maximum possible energy

→ energy: $\{5, 2, -10, -5, 1\}$

k : 3

Let's start at index $i=0$:

$$\text{Energy} = 5 + (-5) = 0$$

Let's start at index $i=1$:

$$\text{Energy} = 2 + 1 = 3$$

Let's start at index $i=2$:

..

..

Mystic Dungeon.

Max

$$\text{Energy} = -10$$

Let's start at index $i = 3$:

$$\text{Energy} = -5$$

Let's start at index $i = 4$:

$$\text{Energy} = 1$$

$$1 \leq \text{energy.length} \leq 10^5$$

$$-1000 \leq \text{energy}[i] \leq 1000$$

$$1 \leq k \leq \text{energy.length} - 1$$

Naive approach:

$$\text{ans} = \text{float}(" -\infty")$$

$$n = \text{len}(\text{energy})$$

for i in range(n):

temp_ans = 0

for j in range (i, n, k):

temp_ans += energy[j]

ans = max(ans, temp_ans)

return ans.

→ $O(N^2)$

→ Use recursion with memoization to

ans = max (ans, solve_recursively (

J

reduce run time.

(energy, k, i, n, memo))



1 D array.