

\downarrow smallest
 $[2, 3, 4, 7, 9]$
 target = 11

def findall combination (target, ~~big~~)
 if target < 1: return []

Here: ~~target~~ $\rightarrow [4, 7]$
 \rightarrow find (target - 9) $\rightarrow [2, 3]$
 \rightarrow find (target - 7) $\rightarrow [2, 4]$
 \rightarrow find (target - 2) $\rightarrow [9]$

QD:

def find (trg, big) return type

Ini:
~~There~~ for x in [2, 3, 4, 7, 9]:
 If x < big:
 find (trg - x, x) + pushback (x)
 Induction:
~~[4, 4]~~
 [1, 2, 3, 4, 5]
 to be!

上: ① ~~我~~ ~~用~~ ~~一~~ ~~个~~ ~~表~~ ~~字~~ :

找出那些數可以被 i 個 區間 裡頭的數。

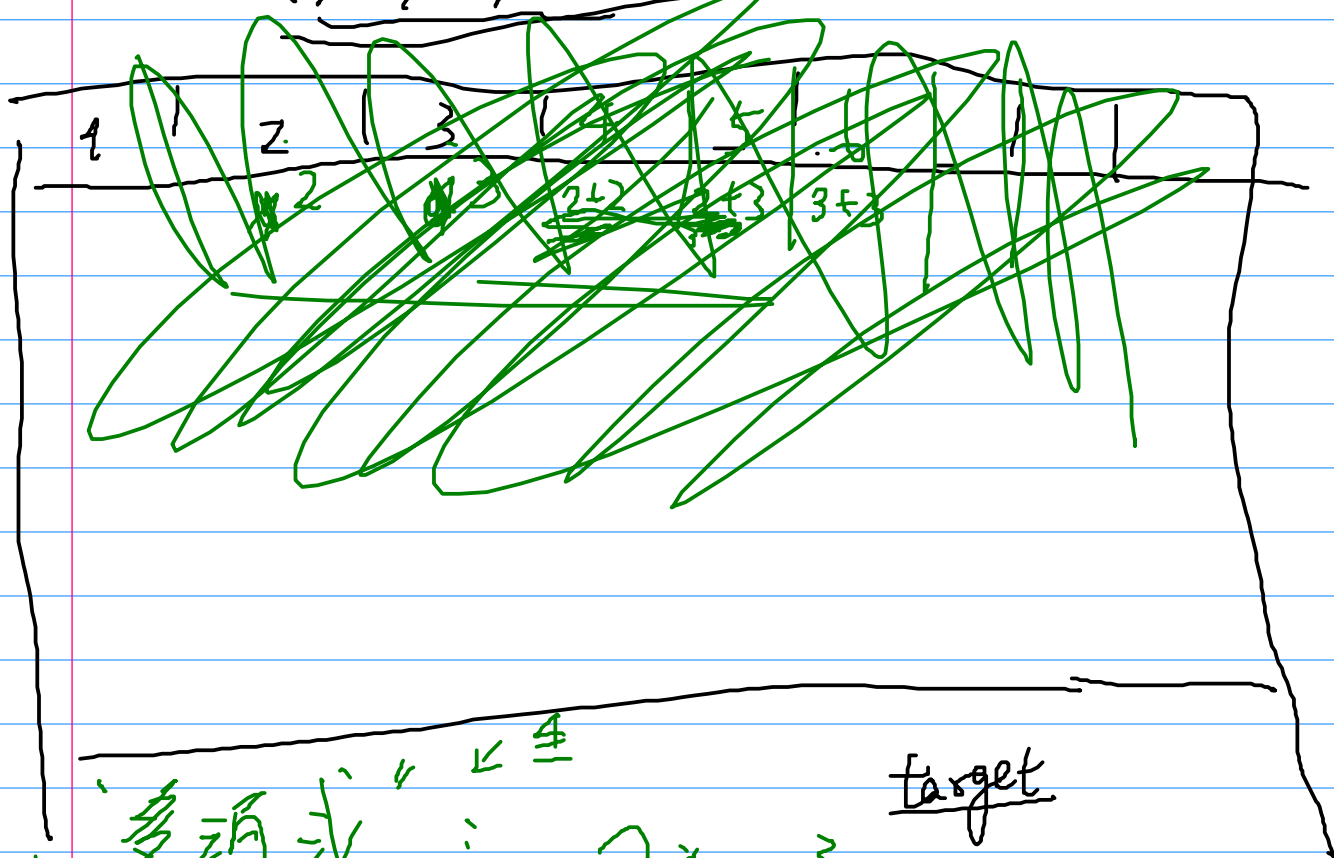
一
二

$$[\{ \dots, \dots \}]$$

152

$\therefore 2$

$[4, 6, 8, 14, 18, 5, 9, 11, \dots]$



多項式: $2x^4 + 3x^3 + \dots$ target

$$P_2(X) \triangleq 1 + x^2 + x^4 + \dots + x^f + x^{2n} + \dots$$

$$P_3(x) = 1 + x^3 + x^6 + \dots + x^{23} + \dots$$

$$P_2 \times \mathbb{B} = 1 + x^2 + x^3 + x^4 + x^5 + x^6 + x^7 + 2x^8$$

$$2: \begin{cases} 2+2+2+2 \leq 8 \\ 3+3+2 \end{cases}$$

$$P_4 = 1 + x^4 + \dots + x^{4n} + \dots$$

$$P_7 = 1 + x^7 + \dots$$

$$\underline{P_2 \cdot P_3 \cdot P_4 \cdot P_7 \cdot P_9 = \sum_{k=0}^{\infty} x^k}$$

$$|x| < 1$$

$$P_2 = \frac{1}{1-x^2}$$

$$P_3 = \frac{1}{1-x^3} \dots$$

~~***~~

$$\left[\frac{1}{1-x} \cdot \frac{1}{1-x^2} \cdot \frac{1}{1-x^3} \cdot \dots \cdot \frac{1}{1-x^9} \right]$$

$$\frac{1}{1-x^9}$$

$$[10]$$

$$[2, 1, 8, 7]$$

$$[1, 2, \dots]$$

$$[N]$$

$$[1, 4, 8, 11, 14]$$

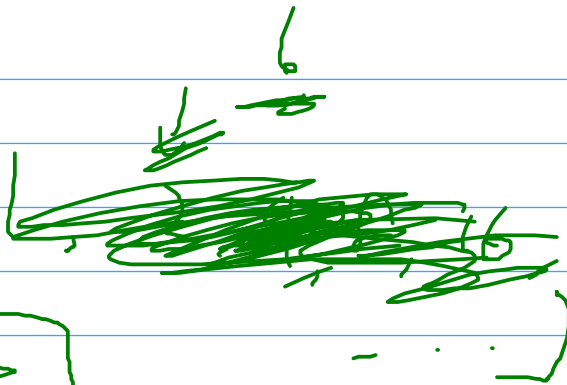
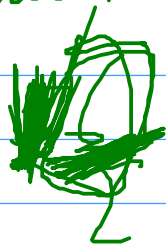
$$\# []$$

$$1 - 4026$$

You are grower.

eg:

1, 10, 5, 50, 100



1

10

1

1 - 1000

995

1, 2, 5, 6

1

2

9, 1, 9, 9

19

1, 2, 5, 10

1, 2, 5

995, 19, 9