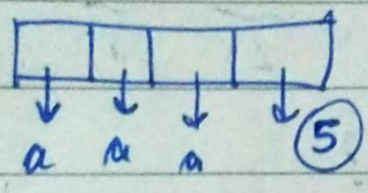
a, i, o, u

n = 4



start → a

5 + 4 + 3 + 2 + 1

start → e

4 + 3 + 2 + 1

~~start →~~ i

3 + 2 + 1

o

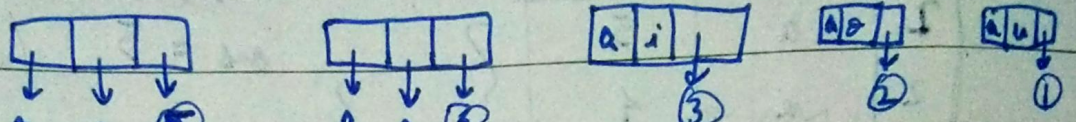
2 + 1

u

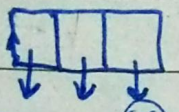
1

5 } 10
15 } 20
35 } 35
70 } 46
126

n = 3



a, e, i, o, u e, i, o, u 5+4+3+2+1 = 15



e i → 3 e o → 2 e u → 1

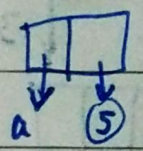
4+3+2+1 = 10

o o 3+2+1

i i 2+1

u u 1

n = 2



e 4

i 3

o 2

u 1

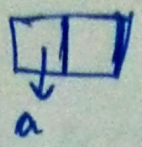
= 15

for n in range (1, N+1):

e += $\frac{n(n+1)}{2}$

n = 3 → 35

n=2



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Date
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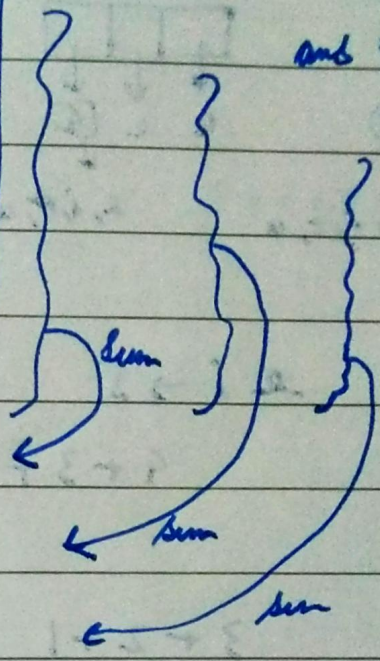
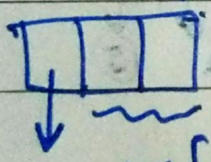
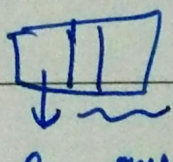
n	prev	ans
2	a	5
2	e	4
2	i	3
2	o	2
2	u	1
3	a	15
3	e	10
3	i	6
3	o	3
3	u	1

n=1, prev = null
ans = 5

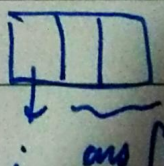




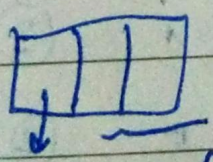
a ans[(2, a)]
+ ... ans[(2, u)]



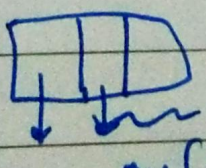
e ans[(2, e)]



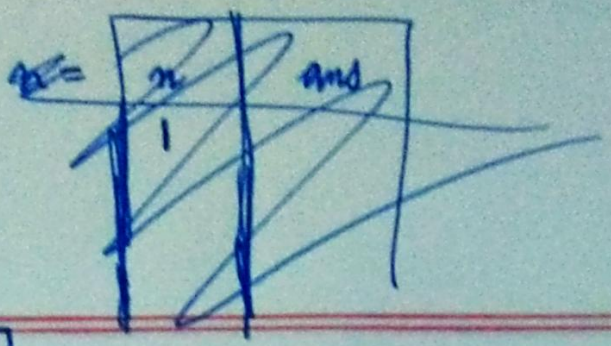
i ans[(2, i)]



o ans[(2, o)]



u ans[(2, u)]



[1, 3, 6, 10, 15]

$dp[(3,1)] = dp[(2,1)] + dp[(2,2)] + \dots + dp[(2,5)]$

$dp[(3,2)] = dp[(2,2)] + \dots + dp[(2,5)]$

encode →

$n * 10 +$ (1, 2, 3, 4, 5)