

“Chef and Interesting Subsequences”

(CHEFINSQ)

(Codechef)

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[“ Hello World ”]

Interesting Subsequences

Chef has a Sequence $A_1, A_2, A_3, \dots, A_n$

Total Number of subsequence = 2^N

Find the Sub sequence of size exactly 'k'

Having sub sequence has a smaller sum

Example,

0	1	2	3	4	5	6	7	8	9
2	1	2	5	5	3	2	1	1	3

$K = 5,$

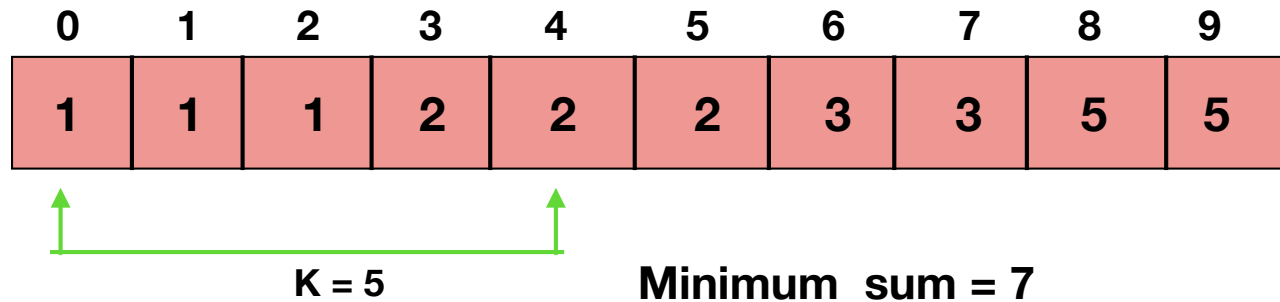
It means we have to find the sub sequence of length '5' having minimum sum

What we do is , SORT the given sequence first

0	1	2	3	4	5	6	7	8	9
1	1	1	2	2	2	3	3	5	5

Interesting Subsequences

Now, we have $K = 5$,



Problem present in the last elements

There are three types of '2' is present

- '2' having index '3'
- '2' having index '4'
- '2' having index '5'

Total Number of '2' in the sequence = 3

But we want, only = 2

Total number of combination is : $3C_2$ That's the ans.

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*“ If you feel any problem then comments in my video
I will reply as soon as possible “*

- Prince Agarwal