

CSE 208: Data Structure Lab (Sec-2)
Department of Computer Science and Engineering
University of Liberal Arts Bangladesh

Course Title: Data Structure Lab

Course Code: CSE 208

Total Marks: 20

Time: 50 minutes

Name: _____ **ID:** _____

1. You are given a queue of N integers such that the first element represents the front of the queue. 10
You need to dequeue at least one element from the queue. At any one moment, you can convert the queue into a stack. The last element of the queue represents the top of the stack. Your task is to remove exactly K elements such that the sum of the K removed elements is maximized.

Input format:

- The first line consists of two space-separated integers N and K .
- The second line consists of N space-separated integers denoting the elements of the stack.

Output format:

- Print the maximum possible sum of the K removed elements

Constraints:

- $1 \leq N \leq 10^5$
- $1 \leq K \leq N$
- $1 \leq A_i \leq 10^9$

SAMPLE INPUT	SAMPLE OUTPUT
10 5 10 9 1 2 3 4 5 6 7 8	40

2. Interview

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