

July 2023 CSE 208

Online 3 Max Flow Set 3

Time: 25min

Mark: 10

Statement:

You have M tasks and N workers. Each task requires an amount of strength to complete the task. Each of the workers has a strength. You're given the strength of the workers and the strength each job required to be completed. One worker can only do one task. Find the maximum number of tasks that can be assigned to the workers.

Input:

First line of input contains 2 integers N and M — denoting respectively the number of workers and the number of tasks.

Second line contains N space separated integers denoting the strength of the workers.

Third line contains M space separated integers denoting the strength required for each of the M jobs to be completed.

Output:

Maximum number of tasks that can be assigned to the workers.

Sample input/output:

Sample input	Sample output
4 3 2 5 7 10 4 9 7	3
2 3 2 3 4 5 6	0
4 4 9 5 7 10 9 4 9 7	4