

H. A-B Knapsack

time limit per test: 1 second
memory limit per test: 256 megabytes

Given n items of weight A and costs a_1, \dots, a_n , and m items of weight B and costs b_1, \dots, b_m .

They fill a knapsack that can withstand a weight of no more than s . Determine what the maximum total cost of the items in the knapsack can be.

Input

The first line contains integers n, m, s, A , and B ($1 \leq n, m \leq 10^5, 1 \leq s, A, B \leq 10^9$).

The second line contains n integers a_i ($1 \leq a_i \leq 10^9$).

The third line contains m integers b_i ($1 \leq b_i \leq 10^9$).

Output

Print one number, the maximum total cost of items that can be put into a knapsack.

Example

input	Copy
6 7 23 3 5 7 4 3 1 5 8 10 12 7 3 8 9 7	
output	Copy
47	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

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