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ITMO Academy: pilot course » Two Pointers Method » Step 3 » Practice

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,\ldots,a_n , and m items of weight B and costs b_1,\ldots,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 ($1 \le n, m \le 10^5$, $1 \le s, A, B \le 10^9$).

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

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

Output

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

Example

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

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