

Toy shop

One day, during a boring class in school, Ivancho stumbled upon an ad about the new toy store in town. He browsed it and saw some really interesting toys he wanted to buy. However, when he decided to check the price, he saw that some of the text was scratched and unreadable. Eventually he learned all prices of toys, thought he could not understand which toy had which price.

Ivancho really wants to go to the shop, but he doesn't want to bring too much money. Help him by writing a program **toys**, that finds the minimum amount of money he must bring to be sure he can buy all the toys he wants.

Input: The first row of the input file **toys.in** will contain two integers - **N** and **M** - the number of toys Ivancho wants to buy and the number of toys in the store correspondingly.

The next row will contain N integers C_i - the amount of the i -th toy Ivancho wants to buy

The next row will contain M integers P_j - the prices of all toys in the shop, in random order.

Output: The output file **toys.out** should contain only one integer - the sum of money.

Limits:

$N \leq M \leq 5000$

$1 \leq C_i \leq N$

$1 \leq P_j < M$

Time limit: 0.2 sec.

Memory limit: 256 MiB.

Remark: Reading and writing to a file can be done using the appropriate statement. You can use the *freopen* statement from the standard library *cstdio* by adding the flowing two lines at the beginning of your main function:

```
freopen("board.in", "r", stdin);
freopen("board.out", "w", stdout);
```

Number of preliminary tests: 4

Number of final tests: 10

Example test:

toys.in	toys.out
3 6 1 2 1 1 2 3 4 5 6	21