**Problem:**

Elif prefers shopping through an online website. On this website, the same product is sold by more than one seller (stores). The cost of a specific product to sellers is 75 TL, but the selling price of this product to the customers is calculated separately for each seller. The selling price for each vendor is calculated with the formula: ***“the current number of products in stock \* the cost of prodcut”***. Initially, there are X vendors selling that product and Y customers to buy them. According to the given information, find the maximum possible income obtained from the sales.

**Input:**

X : the number of sellers

Y: the number of customers

The next line includes X space separated numbers Q[1], Q[2], Q[3], ...., Q[X] where Q[i] denotes the number of products in stock for the ith seller.

**Constraint:**

> Y, where i is the number of sellers.

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| X = 3 Y = 4  Remaining Quantity per Seller:  1 2 4 | 11\*75 = 825 TL |

**Explanation:**

In the given scenario, the number of sellers (X) is given as 3 and the number of customers (Y) who want to buy a specific dress is given as 4. Initially, the maximum cost of the dress is 4 \* 75 TL because the remaining quantity of dresses at the stock is 4 and it is the maximum value among these sellers. After buying the dress from the third seller, the stocks are updated as follows (1, 2, 3) and there are still 3 people who are going to buy this dress. Second person can now buy this dress from the third seller again by paying 3 \* 75 TL and the stocks are updated as (1, 2, 2). The scenario is repeated in the same manner for the remaining two people. The next person can buy this dress from the second or the third seller because they have the same number of dresses at their stocks so that the payment for this transaction is 2 \* 75 TL. Finally, the stocks are now (1, 1, 2) and the last person can buy this dress by paying 2 \* 75 TL. In total, (4 + 3 + 2 + 2) \* 75 TL is paid by 4 people to these three sellers.

**Question:**

According to the above scenario, complete the blank parts in the given code segments to obtain the desired output.

**What to do:**

get the number of sellers from user

get the number of customers from user

get the number of the products for each seller.

Display the initial Priority Queue after the insertion.

Find the maximum possible income for the input.

ALL CREDITS FOR THIS PROBLEM TO:

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