

Umang and His Lucky Numbers

Problem Statement

Umang loves the number 2, it being the unique even prime number. It has always been his *luckiest number* since childhood. He also loves the prime factorization problem. He has some *lucky numbers* too. These are the set of all those numbers that contain 2 as its only prime factor.

Being the stubborn and superstitious child that he is, he always does transactions of an amount of money equalling a *lucky number*.

Umang goes to a shop to buy some items his mother asked him to get. The shopkeeper gives him a list of the prices of those items. Help him find out the minimum amount he needs to pay to the shopkeeper. It is given that the shopkeeper won't offer any discounts.

Edit: A lucky number is a strictly positive integer which has only 2 as its prime factor. It even **may not have any prime factor**.

Input Format

The input contains 2 lines.

The first line contains the number of items, N , *Umang's* mother asked him to get.

The second line contains the prices of those items, $A[1..N]$, as quoted by the shopkeeper.

Constraints:

$$0 \leq N \leq 10^6$$

$$0 \leq A[i] \leq 10^9$$

Output Format

Output in a single line the amount that *Umang* will pay to the shopkeeper in order to buy the said items.

Sample Input

```
5
2 4 3 7 15
```

Sample Output

```
32
```

Explanation

The shopkeeper needs ₹31.

₹32 is the minimum amount that satisfies the required conditions.