

# PRATA - Roti Prata

*no tags*

IEEE is having its AGM next week and the president wants to serve cheese prata after the meeting. The subcommittee members are asked to go to food connection and get  $P(P \leq 1000)$  pratas packed for the function. The stall has  $L$  cooks ( $L \leq 50$ ) and each cook has a rank  $R(1 \leq R \leq 8)$ . A cook with a rank  $R$  can cook 1 prata in the first  $R$  minutes 1 more prata in the next  $2R$  minutes, 1 more prata in  $3R$  minutes and so on (he can only cook a complete prata) ( For example if a cook is ranked 2.. he will cook one prata in 2 minutes one more prata in the next 4 mins an one more in the next 6 minutes hence in total 12 minutes he cooks 3 pratas in 13 minutes also he can cook only 3 pratas as he does not have enough time for the 4th prata). The webmaster wants to know the minimum time to get the order done. Please write a program to help him out.

## Input

The first line tells the number of test cases. Each test case consist of 2 lines. In the first line of the test case we have  $P$  the number of prata ordered. In the next line the first integer denotes the number of cooks  $L$  and  $L$  integers follow in the same line each denoting the rank of a cook.

## Output

Print an integer which tells the number of minutes needed to get the order done.

## Example

**Input:**

```
3
10
4 1 2 3 4
8
1 1
8
8 1 1 1 1 1 1 1
```

**Output:**

```
12
36
1
```

---

[Submit solution!](#)

From <<https://www.spoj.com/problems/PRATA/>>