

Bottles

Program Name: `Bottles.java`

Input File: `bottles.dat`

Given a sequence of n bottles, their volumes are v_0 through v_{n-1} . Drink as much as you can, given that you cannot drink from any 2 adjacent bottles. In the example below, you can drink at most 103 ounces by choosing to drink from the highlighted bottles.



<i>index</i>	0	1	2	3	4	5	6	7	8	9	10	11
v_n	15	20	5	18	19	27	31	21	3	0	17	16

Input

The input file consists of a single integer c , which is the number of test cases, $1 \leq c \leq 10$. Following that is c lines, where each line is a sequence of integers. The first integer for each test case gives the number of bottles, n , where $1 \leq n \leq 100$. The next n integers give the drinkable volume, $0 \leq v_n \leq 32$, for each corresponding bottle in the line.

Output

The output contains one line for each input test case. Each output line contains a single integer, which is the maximum drinkable volume possible for that input.

Sample Input

```
4
5 2 5 2 5 12
6 1 1 3 3 1 1
6 3 1 3 7 2 4
12 15 20 5 18 19 27 31 21 3 0 17 16
```

Sample Output

```
17
5
14
103
```