

# Subset Sum

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            **2 seconds**  
Memory limit:         **256 megabytes**

Chiaki has  $n$  integers  $a_1, a_2, \dots, a_n$  and another integer  $c$ , and she would like to choose a subset of the  $n$  integers whose sum does not exceed  $c$ . Find the maximum possible sum of the chosen subset.

## Input

There are multiple test cases. The first line of the input contains an integer  $T$  ( $1 \leq T \leq 2 \times 10^4$ ), indicating the number of test cases. For each test case:

The first line contains two integers  $n$  and  $c$  ( $1 \leq n \leq 2 \times 10^4$ ,  $1 \leq c \leq 10^9$ ). The second line contains  $n$  integers  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq 2 \times 10^4$ ).

The sum of all  $n$  does not exceed  $2 \times 10^4$ .

## Output

For each test case, output an integer denoting the answer.

## Example

standard input	standard output
3	5
3 5	0
2 3 4	9
3 1	
2 3 4	
3 1000000000	
2 3 4	