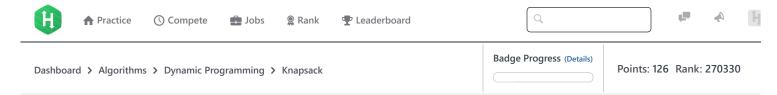
16/11/2017 HackerRank







Problem Submissions Leaderboard Discussions Editorial

Given a list of n integers, $A = \{a_1, a_2, \dots, a_n\}$, and another integer, k representing the *expected sum*. Select zero or more numbers from A such that the sum of these numbers is as near as possible, but not exceeding, to the *expected sum* (k).

Note

- Each element of A can be selected multiple times.
- If no element is selected then the sum is 0.

Input Format

The first line contains $oldsymbol{T}$ the number of test cases.

Each test case comprises of two lines. First line contains two integers, n k, representing the length of list A and expected sum, respectively. Second line consists of n space separated integers, a_1, a_2, \ldots, a_n , representing the elements of list A.

Constraints

 $1 \le T \le 10$

 $1 \le n \le 2000$

 $1 \le k \le 2000$

 $1 \leq a_i \leq 2000, where i \in [1, n]$

Output Format

Output T lines, the maximum sum for each test case which is as near as possible, but not exceeding, to the expected sum (k).

Sample Input

3 12

1 6 9

5 9

3 4 4 4 8

Sample Output

12

9

Explanation

In the first test case, one can pick {6, 6}. In the second, we can pick {3,3,3}.

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Submissions: <u>11648</u>

Max Score:60

16/11/2017 HackerRank

Difficulty: Medium
Rate This Challenge:
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```
Current Buffer (saved locally, editable) & • •
                                                                                            Java 7
                                                                                                                              \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
    }
12
                                                                                                                      Line: 1 Col: 1
                       Test against custom input
                                                                                                         Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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