

← Practice Programming Problems / K-Distribution

K-Distribution

Submissions Attempted by: 211 | Solved by: 73 | Partially Solved by: 122 | ★★★★☆

Combinatorics Dynamic Programming Hard Math Number Theory & Edit

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₱ June Clash '15

You are given N positive integers A₁, A₂, ... A_N. Find the number of ways to distribute them in 2 groups in such a way that sum of numbers in each group is greater or equal K. The answer can be large so output it modulo $10^9 + 7$.

Input

The first line contains two space-separated integers N and K. The second e contains N spaceseparated integers: A₁, A₂, ... A_N.

Output

Output one integer - answer for the question modulo $10^9 + 7$.

Constraints

- 0 < N ≤ 100
- $0 < A_i \le 10^9$
- $0 < K \le 10^5$
- $0 < N \le 20$ in 28 % of the test data.

Sample Input (Plaintext Link)

2 5

6 6

Sample Output (Plaintext Link)

2

Time Limit: 1 sec(s) for each input file.

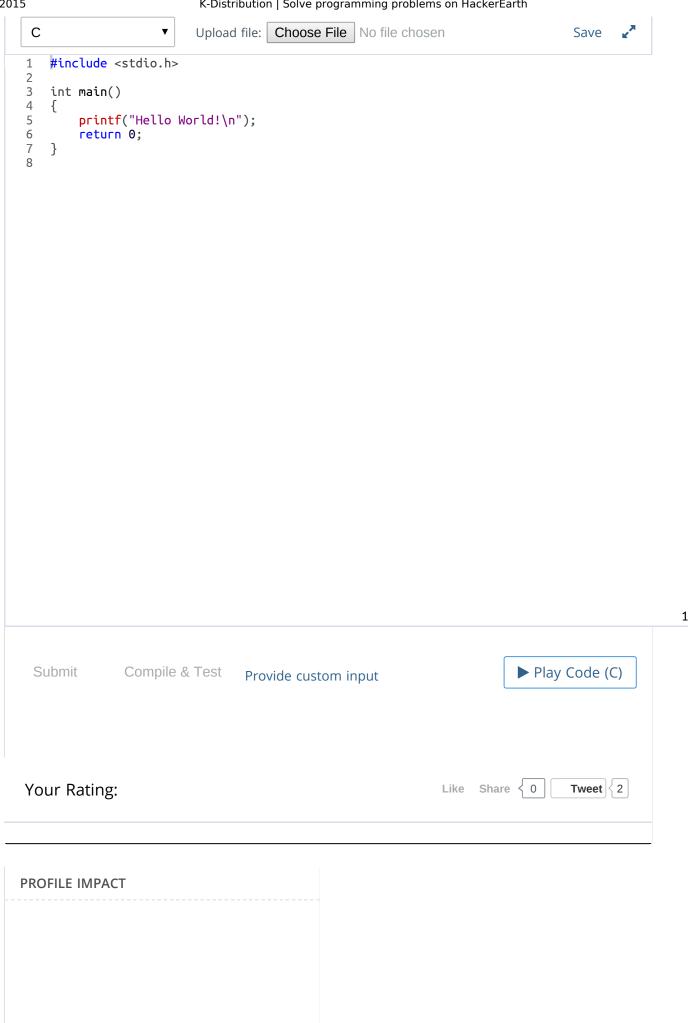
Memory Limit: 256 MB Source Limit: 1024 KB

Marking Scheme: Marks are awarded if any testcase passes.

Allowed languages: C, CPP, CLOJURE, CSHARP, GO, HASKELL, JAVA, JAVASCRIPT, JAVASCRIPT_NODE, LISP,

OBJECTIVEC, PASCAL, PERL, PHP, PYTHON, RUBY, R, RUST, SCALA

Problem Author: Pavel Sheftelevich Problem Tester: Bohdan Pryshchenko



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PROBLEMS SUGGESTED FOR YOU

The function problem

Solved by 249

Game Of Strengths

Solved by 497

Putting matrix

Solved by 17

more...

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User	Result	Time	Lang
Swapnil		2.7472	C++
Roman Bi		1.7096	С
Himadri		13.4437	C++
Himadri		13.4778	C++
Parag Go		1.7106	C++
Parag Go		1.71	C++
Parag Go		2.2292	C++
View All			

TRENDING NOTES

Number Theory - III

written by Boris Sokolov

Exact String Matching Algorithms

written by Alei Reyes

Binary Indexed Tree or Fenwick Tree

written by Chandan Mittal

Small tricks in for loop

written by Rangeesh

Strings And String Functions

written by Vinay Singh

more ...

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