## **Problem: Party**

**Time Limit:** 1 second  
**Memory Limit:** 256 MB

### **Problem Statement**

Polycarp is organizing a party and wants to invite his friends. He has **n** friends numbered from 1 to n. Each friend has a unique integer associated with them representing their level of enthusiasm to attend the party.

Polycarp aims to maximize the total enthusiasm at his party. However, there is a constraint: he wants the total enthusiasm to be **at least** a certain value **k**. Determine the **minimum number of friends** Polycarp needs to invite to achieve a total enthusiasm of at least **k**. If it's impossible to reach the desired enthusiasm, output -1.

### **Input**

* The first line contains two integers **n** and **k** (1 ≤ n ≤ 10^5, 1 ≤ k ≤ 10^9) — the number of friends and the minimum total enthusiasm Polycarp wants to achieve.
* The second line contains **n** integers a\_1, a\_2, ..., a\_n (1 ≤ a\_i ≤ 10^4) — the enthusiasm levels of each friend.

### **Output**

* Print a single integer representing the minimum number of friends Polycarp needs to invite to achieve a total enthusiasm of at least **k**. If it's impossible, print -1.

### **Subtasks**

* **Subtask 1 (30 points):**
  + 1 ≤ n ≤ 1000
  + 1 ≤ a\_i ≤ 1000
* **Subtask 2 (70 points):**
  + Original constraints.

### **Examples**

**Example 1**

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Input:

5 12

1 2 3 4 5

Output:

3

**Explanation:**Polycarp can invite friends with enthusiasm levels 5, 4, and 3. The total enthusiasm is 5 + 4 + 3 = 12, which meets the requirement with the minimum number of friends invited.

**Example 2**

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Input:

3 15

4 4 4

Output:

-1

**Explanation:**The total possible enthusiasm is 4 + 4 + 4 = 12, which is less than 15. Hence, it's impossible to meet the requirement.

**Example 3**

makefile

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Input:

4 7

2 2 1 3

Output:

3

**Explanation:**One optimal way is to invite friends with enthusiasm levels 3, 2, and 2, totaling 7.