## 825. Friends Of Appropriate Ages

<u>DescriptionHintsSubmissionsDiscussSolution</u>

Some people will make friend requests. The list of their ages is given and ages[i] is the age of the ith person.

Person A will NOT friend request person B (B != A) if any of the following conditions are true:

```
• age[B] \le 0.5 * age[A] + 7

    age[B] > age[A]

• age[B] > 100 \&\& age[A] < 100
```

Otherwise, A will friend request B.

Note that if A requests B, B does not necessarily request A. Also, people will not friend request themselves.

How many total friend requests are made?

```
Example 1:
```

```
Input: [16,16]
Output: 2
Explanation: 2 people friend request each other.
Example 2:
Input: [16, 17, 18]
Output: 2
Explanation: Friend requests are made 17 -> 16, 18 -> 17.
Example 3:
Input: [20, 30, 100, 110, 120]
Explanation: Friend requests are made 110 -> 100, 120 -> 110, 120 -> 100.
```

Notes:

```
    1 <= ages.length <= 20000.</li>

    • 1 <= ages[i] <= 120.
class Solution {
public:
  int numFriendRequests(vector<int>& ages) {
    sort(ages.begin(),ages.end());
   int left=0,right=0;
   int res = 0;
    for(int i=0;i<(int)ages.size();++i)</pre>
```