

825. Friends Of Appropriate Ages

Description

There are `n` persons on a social media website. You are given an integer array `ages` where `ages[i]` is the age of the `ith` person.

A Person `x` will not send a friend request to a person `y` (`x != y`) if any of the following conditions is true:

- `age[y] <= 0.5 * age[x] + 7`
- `age[y] > age[x]`
- `age[y] > 100 && age[x] < 100`

Otherwise, `x` will send a friend request to `y` .

Note that if `x` sends a request to `y` , `y` will not necessarily send a request to `x` . Also, a person will not send a friend request to themselves.

Return *the total number of friend requests made* .

Example 1:

Input: `ages = [16,16]`
Output: `2`
Explanation: 2 people friend request each other.

Example 2:

Input: `ages = [16,17,18]`
Output: `2`
Explanation: Friend requests are made 17 -> 16, 18 -> 17.

Example 3:

Input: `ages = [20,30,100,110,120]`
Output: `3`
Explanation: Friend requests are made 110 -> 100, 120 -> 110, 120 -> 100.

Constraints:

- `n == ages.length`
- `1 <= n <= 2 * 104`
- `1 <= ages[i] <= 120`

