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] <= 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]

**Output:**

**Explanation:** Friend requests are made 110 -> 100, 120 -> 110, 120 -> 100.

Notes:

* 1 <= ages.length <= 20000.
* 1 <= ages[i] <= 120.