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class Solution {
    public int numPairsDivisibleBy60(int[] time) {
        int c[] = new int[60], res = 0;
        for (int t : time) {
            res += c[(60 - t % 60) % 60];
            c[t % 60] += 1;
        }
        return res;
    }
}

```

In a list of songs, the i -th song has a duration of $time[i]$ seconds.

Return the number of pairs of songs for which their total duration in seconds is divisible by 60. Formally, we want the number of indices $i < j$ with $(time[i] + time[j]) \% 60 == 0$.

Example 1:

Input: [30,20,150,100,40]

Output: 3

Explanation: Three pairs have a total duration divisible by 60:

($time[0] = 30$, $time[2] = 150$): total duration 180

($time[1] = 20$, $time[3] = 100$): total duration 120

($time[1] = 20$, $time[4] = 40$): total duration 60