# Tournament

Input File: tournament.txt

You are organizing a head to head meta-foosball competition. It has the format of a double round robin tournament, in which every entrant plays everyone else twice.

Since each match costs \$5 to set up, large tournaments could get costly. Let the total cost of all the rounds be *C*. You will charge the lowest whole-dollar amount to each entrant such that the total amount collected from the entrants is at least half of *C*. Your sponsor will then pay the rest of the set up costs.

### Input:

An integer, *n*, the number of lines. For the next *n* lines: An integer, a possible number of competitors.

### Output:

The amount, in dollars, the sponsor will pay for each number of competitors; one amount per line.

### Sample Input:

## Sample Output:

50 220 24700