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## ITERATIVE sum of odd values until an odd value

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Write an **ITERATIVE** (using `while` or `for`) function such that given an odd integer  $n \geq 1$ , computes  $1 + 3 + 5 + \dots + (n - 2) + n$ . Also, write a program that reads several positive odd integers  $n$  and shows the result of the function for each of them.

The main function should be of the following form, where `your_function_name` should be replaced by the name you have chosen for the function.

```
int main()
{
    int n;
    while (cin>>n) {
        cout<<your_function_name(n)<<endl;
    }
}
```

**Note:** A program accepted by the judge that solves the problem without using an **ITERATIVE** (using `while` or `for`) function will be considered invalid and will have a final score 0.

**Note:** Recall that at this point of the course using vectors or any other method to store massive data is not allowed.

**Exam score: 2 Automatic part: 100%**

### Input

The input has several lines, each one with an odd integer  $n \geq 1$ .

### Output

The output has the result of the function in a different line for each  $n$ .

#### Sample input

1  
3  
5  
7  
9

#### Sample output

1  
4  
9  
16  
25

### Problem information

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