

Rookiesworld - Exam

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Rookiesworld

Test Name : Rise Engineering Short CodI...

Section 1 of 139m 37s

suresh

Section 1 of 1 : Section 1

Q : 1/2 (10 Marks)

12

Finish Test

Title

Nazeer with his critical job in MNC

Direction

Write and submit a Program on the given question (problem statement) for any one of the several programming languages provided. You can also evaluate the program against your custom test cases

Question

Nazeer is working for an MNC and he is taking an exam for his promotion. He has to solve 2 algorithmic problems. He has managed to solve one but the second one is a bit tough for him as he fears prime numbers. The question asked to him is given a prime number, print the sum of the prime number just greater than the given prime number and the prime number just lesser than the given prime. See the sample test cases for more clarity.

Input

The first line of input contains a number T which denotes the number of test cases. The next T lines contain a number N.

Output

Each test case will the sum of a prime number just greater than N and the prime number

Program

Console

Program Area

(Press CTRL+Space for auto suggest)

C (gcc 4.8.5)

```
1 #include <stdio.h>
2 int main(void) {
3     // write your code here
4     return 0;
5 }
```

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases

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Output

Each test case will the sum of a prime number just greater than N and the prime number just lesser than N.

Constraints

1<=T<=105

3<=N<105

(N will be a prime number)

Sample Test Case

Input

2

5

9

Output

10

18

Explanation

In the first test case, N=5 so the prime number greater than 5 is 7 and prime number less

Program

Console

Program Area

(Press CTRL-Space for auto suggest)

C (gcc 4.8.5)

1#include <stdio.h>

2int main(void) {

3// write your code here

4return 0;

5}

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases

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1<=I<=105
3<=N<105
(N will be a prime number)

Sample Test Case

Input

2

5

9

Output

10

18

Explanation

In the first test case, N=5 so the prime number greater than 5 is 7 and prime number less than 5 is 3. So the sum is 5+3=10.

In the second test case, N=9 so the prime number greater than 9 is 11 and prime number less than 9 is 7. So the sum is 11+7=18.

Program Console

Program Area (Press CTRL-Space for auto suggest) C (gcc 4.8.5)

```
1 #include <stdio.h>
2 int main(void) {
3     // write your code here
4     return 0;
5 }
```

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases

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Section 1 of 1 : Section 1

Q : 2/2 (10 Marks)

12

Finish Test

Title

Income and Taxes

Direction

Write and submit a Program on the given question (problem statement) for any one of the several programming languages provided. You can also evaluate the program against your custom test cases

Question

A Microsoft employee from the state of California in USA, if he gets net income less than \$1500 pays 5% of Net income as state tax and 15% of Net income as federal tax. If his net income is more than or equal to \$1500 he pays \$100 as state tax and 20% of Net income as federal tax. Write a program to find out the gross income of the employee when we input his net income. The formulae to calculate gross income is

$$\text{Gross Income} = \text{Net Income} + \text{State Tax} + \text{Federal Tax}.$$

Input

The first line will have integer n (number of test cases). Then follow n lines, each line contains an integer i (Net Income).

Program

Console

Program Area (Press CTRL-Space for auto suggest) C (gcc 4.8.5)

```
1 #include <stdio.h>
2 int main(void) {
3     // write your code here
4     return 0;
5 }
```

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases

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Q : 2/2 (10 Marks)

12

Finish Test

Input

The first line will have integer n (number of test cases). Then follow n lines, each line contains an integer i (Net Income).

Output

Output the Gross income based on the Net Income

Constraints

0 < n < 1000
1 < i < 100000 (i should be always positive)

Example

Input

3
1200
1500
1800

Output

1440

Program

Console

Program Area

(Press CTRL+Space for auto suggest)

C (gcc 4.8.5)

1#include <stdio.h>

2int main(void) {

3// write your code here

4return 0;

5}

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases

Support

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Run

Submit

Reset

Output

Output the Gross income based on the Net Income

Constraints

$0 < n < 1000$

$1 < i < 100000$ (i should be always positive)

Example

Input

3

1200

1500

1800

Output

1440

1900

2260

Program

Console

Program Area

(Press CTRL+Space for auto suggest)

C (gcc 4.8.5)



```
1 #include <stdio.h>
2 int main(void) {
3     // write your code here
4     return 0;
5 }
```

Line : 1 Col : 1

Multiple submits are allowed

+ Custom Test Cases