

# Sum The Amazing Series

Consider the series

$$(1 / 5) + (5 / 6) + (9 / 11) + (24 / 31) + (50 / 43) + \dots$$

## Input

First line of input is t (**t < 5001**). Next t lines contains a positive integer n (**n < 6001**).

## Output

Output is sum of the series upto n terms, upto 2 decimal places.

## Example

### Input:

```
6  
1  
2  
3  
4  
5  
6
```

### Output:

```
0.20  
1.03  
1.85  
2.63  
3.79  
5.00
```