Amplitude Hackathon Winter '24 Problem 1 - Twila's Walk

Time limit: 0.25s   **Memory limit:** 1G

For those not in the know, Twila is one of the many #doggosofamplitude that you might see in a Dr. Pepper costume.

Jessica is taking Twila out for an afternoon walk! For today's walk, Jessica has planned a walk that is x miles long.

Twila prefers longer walks to shorter walks - when her walk is y miles long, she gains y^2 units of happiness.

How many units of happiness will Twila gain on today's walk?

Constraints

$1 \leq x \leq 10$

Input Specification

The first and only line of input contains a positive integer x.

Output Specification

Output the number of units of happiness Twila gains on the walk.

Sample Input 1

```
1
```

Sample Output 1

```
1
```

Sample Explanation 1

If Twila walks for 1 mile, she gains $1^2 = 1$ unit of happiness.

Sample Input 2

```
10
```

Sample Output 2

```
100
```

Sample Explanation 2

If Twila walks for 10 miles, she gains $10^2 = 100$ units of happiness.