

Problem Set 2 Exercise #13: Square Number

Reference: Lecture 5 notes

Learning objective: Repetition statements

Estimated completion time: 30 minutes

Problem statement:

Write a program **square_number.c** that asks the user to input a positive integer. Thereafter, your program should print out whether this integer is a perfect square.

A perfect square is the square of an integer. Examples are 9 ($= 3 \times 3$), 4 ($= 2 \times 2$), and 1 ($= 1 \times 1$).

Sample run #1:

```
Enter an integer: 80
80 is not a perfect square
```

Sample run #2:

```
Enter an integer: 81
81 is a perfect square
```