

Challenge 1: Calculate the Power of a Number

Let's solve a slightly easy challenge in this lesson.

We'll cover the following ^

- Problem statement
 - Input
 - Output
 - Sample input
 - Sample output
- Coding exercise

Problem statement

In this challenge, you are given a base and an exponent. Your task is to calculate the power of the number.

Input

We have already initialized the input variables `base` and `exponent` at the backend.

Output

We have declared the variable `result` for you. Your task is to store your output in the `result`.

Sample input


```
int base = 2;  
int exponent = 3;
```

Sample output

```
result = 8
```


Coding exercise

Before diving directly into the solution, first, try to solve it yourself, and then check if your code passes all the test cases. If you get stuck, you can always see the given solution.

 Please use the variables **base** and **exponent** for the input and **result** for the output; otherwise, your code will not execute.

Good Luck! 

```
/* We have already declared the input variable 'base' and 'exponent'
at the backend.
int base, exponent;
Calculate the power and then
store your output in a variable 'result'
*/
// Write your code here
int result;
```



 You have just solved your first challenge related to loops. Give yourself a round of applause!

In case you are stuck, let's go over the solution review in the next lesson.