- Exercise

Let's solve a template specialization problem in this lesson.

we'll cover the following ↑

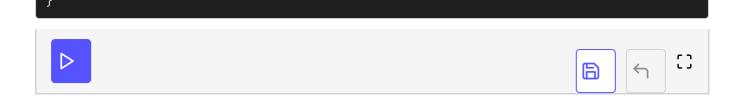
Problem Statement

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The class template Type in the code below returns the name unknown to each type. .

- Use the class template Type as a starting point to write a type introspection system with the help of partial and full specialization.
- We'll need to write code for int, double, an arbitrary classes named Account, pointer, const, and string.

```
#include <iostream>
#include <string>
// Implement with full and partial specialization
// Write your code here
template<typename T>
struct Type{
  std::string getName() const {
    return "unknown";
};
int main(){
  std::cout << std::boolalpha << std::endl;</pre>
  // call objects for each defined templetes here
  // An example of float is given below which returns "unknown"
  Type<float> tFloat;
  std::cout << "tFloat.getName(): " << tFloat.getName() << std::endl;</pre>
  std::cout << std::endl;</pre>
```



In the next lesson, we'll look at the solution to this exercise.