- Exercise

In this lesson, we'll solve an exercise on type erasure.

WE'LL COVER THE FOLLOWING

Problem Statement

Compare the implementations of type erasure:

Implement a type deduction system with the help of type erasure which returns a string representation corresponding to each data type. You need to write the function for `int`, `long long`, `char`, `void`, and `float`.

```
#include <iostream>
#include <iostream>
#include <memory>
#include <string>
#include <typeinfo>
#include <vector>

// Implement the object struct

int main() {
  // uncomment these lines after implementing object struct

  /*
  printType(Object::Model<int>{});
  printType(Object::Model<double>{});
  printType(Object::Model<void>{});
  printType(Object::Model<Test>{});
  printType(Object::Model<Object>{});
  printType(Object::Model<long long>{});
  printType(Object::Model<std::string>{});
  printType(Object::Model<std::vector<int>>{});
  */
}
```

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