

# Lvalues and Rvalues Exercises

- Explain what is meant by the terms "lvalue" and "rvalue" in traditional C++
- Identify the lvalues and rvalues in the following. Explain your answers

```
int x = 2;
```

```
const int& x = 2;
```

```
const char *x = "test";
```

```
X x = func();
```

```
// func() returns an instance of X by value
```

- Explain what is meant by the terms "prvalue", "xvalue", "lvalue" and "glvalue" in modern C++
- For each of the following, state whether x is an lvalue, xvalue or a prvalue. Explain your answers

`int x = 2;`

`const int& x = 2;`

`const char *x = "test";`

`X x = func();`