

# Throwing Exceptions

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The C++ **exception handling** feature allows programs to deal with real life circumstances. The system is broken into three parts:

- **try** blocks
- **catch** blocks
- **throw** statements

Let's start by looking at **throw** statements, so we can finish up our functions. Click on the running man to open the sample program we've been working on in **Replit**, **Fork it**, and we'll continue by learning how to apply exception handling.



When a function encounters a situation from which it cannot recover—for example, a call to **stoi("twelve")**—you can **report the error** by using the **throw** keyword to notify the nearest appropriate error-handling code that something has gone wrong.

```
istringstream in(str);  
int result = 0;  
if (in >> result) return result;  
throw ... // signal error at this point using throw
```

Inside **stoi()**, if the read succeeds, return the result. If the read **fails**, **jump out of the function**, looking for the closest error handler. You do that with **throw**.

Like **return**, **throw** accepts a single parameter, an object which provides information about the error which occurred.



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