

Debug

- * - no optimizations on your code
- variables set to sensible values (mem cleared, ints = 0, etc)
- slow
- larger executable
- debug symbols (variable names)

Release

- many compiler optimizations on your code (so stepping through may not be easy)
- variables not initialized
- fast
- smaller executable
- difficult to reverse engineer

```
int K = 0;
```

```
int myint = 1;
```

```
while (true) {
```

```
}
```

↓
will be in machine
code

```
while (myint == 1) {
```

```
...
```

```
}
```