# Integer manipulations

# The Perl 6 integer test report

The integer is in perl the most important type so we need to do our best to test it thoroughly. First we declare a constant to be used later and an integer without a value.

```
constant ABC = 10;
my Int $i;
nok $i.defined, 'T0';
ok $i ~~ Int, 'T1';
todo 'D2', 1;
ok $i !~~ Int, 'D3';
ok $i ~~ Cool, 'T4';
```

✔ **T0:** Declaration of an integer without an assignment of a value, should result in an undefinedness.

✔ **T1:** But when defined or not, its type value can be compared.

**Next test is a todo test:** Someday we might make this not fail when wormwhole modules are installed

**D3:** The opposite test should fail

✔ **T4:** Also inherited classes should be compared successfully.

## Operations

Next a few tests to see if operations can be applied to the integer

```
$i = ABC;
is $i, 10, 'T5';
```

✔ **T5:** Initialize Int with the constant seems to have done well

```
if ?"We are not stupid" {
skip 'S6', 2;

  } else {
  ok 10 < 7, 'S7';
  ok 11 / 0, 'S8';
}
todo 'D9', 2;
is $i, 11, 'D10';
like $i.Str, /'not 10, but text'/, 'D11';
```

**Next 2 tests are skipped tests:** Two lines are skipped because these are stupid tests

**S7:** 10 not smaller than 7

**S8:** Won't work in this universe

**Next 2 tests are todo tests:** Incredible tests which will be true in the not so distant future

**D10:** Integer is 10 not 11

**D11:** test some text

```
for ^10 {
  ok $^a < 7, 'T12';
}
```

✔7 ✘7 **T12:** test a series of numbers against 7

```
for ^11 {
todo 'D13', 11;
  ok $^a > 8, 'D14';
}
```

**Next 11 tests are todo tests:** Should make todos with this test

2 2 **D14:** test a series of numbers against 8

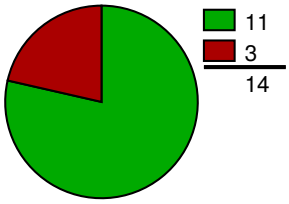
```
my Int $i2 = 20304;
todo 'B15', 2;
is $i2, 20304, 'B16';
is $i2 - 20305, 1, 'B17';
```

**Next 2 tests are bug issue tests:** Mentioned a few bugs from the issues list on github

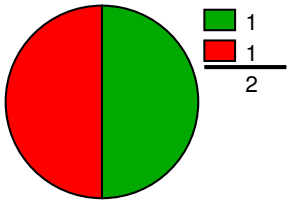
**B16:** ok, for now

**B17:** not ok

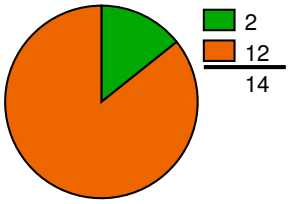
**Normal tests**




**Bug issues**




**Todo tests**




**Summary**