# 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/>
;
my Hash
<h/>
;
<h/>
<test> =
<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 D3 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';
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';
for ^10 {
    ok $^a < 7, 'T12';
}
for ^11 {
    todo 'D13', 1;
    ok $^a > 8, 'D14';
}
my Int
<i2/>
= 20304;
todo 'B15', 2;
is $i2, 20304, 'B16';
is $i2 - 20305, 1, 'B17';
```

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

**Next 2 tests (S7-8) might be skipped:** 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 (D10-11) 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
- **T12:** test a series of numbers against 7

**Next D14 test is a todo test:** Should make todos with this test

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

**Next 2 tests (B16-17) 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 |
|---|---|---|---|
| 0<br>0<br>0 | 0<br>0<br>0 | 0<br>0<br>0 | |