# 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 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

✔7 ✘3 **T12:** test a series of numbers against 7

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

📄2 📄9 **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 |
|---|---|---|---|
| 🟩 11 | 🟩 1 | 🟩 2 | 🟩 14 ok |
| 🟥 3 | 🟥 1 | 🟧 12 | 🟥 3 Tests |
| 14 | 2 | 14 | 🟥 1 Bugs |
| | | | 🟧 12 Todo |
| | | | ⬜ 2 Skip |
| | | | 32 Total |

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