

0 1 7 7 7 0 0

32768 4096 512 64 8 1
i i i i o o

$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

1 1
16384 8192 4096 2048 1024 512 256 128 64 32 16 8 4 2 1
32768

while ((x &=(x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 4096 512 64 8 1
i i i i o o

$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

1 1
16384 8192 4096 2048 1024 512 256 128 64 32 16 8 4 2 1
↓
32768

while ((x &=(x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 4096 512 64 8 1
i i i i i o o

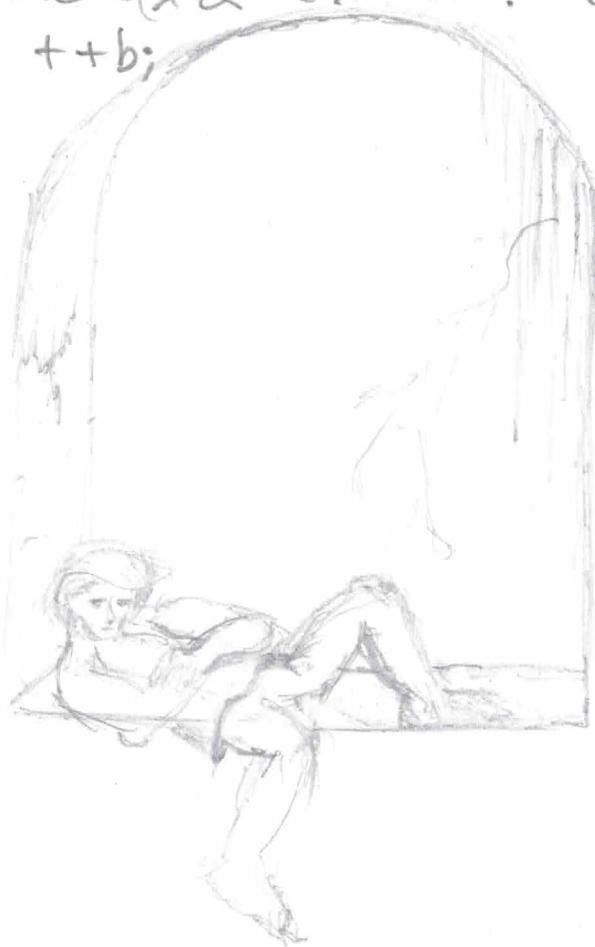
$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

1 1
16384 8192 4096 2048 1024 512 256 128 64 32 16 8 4 2 1
32768

while ((x &=(x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 4096 512 64 8 1
i i i i o o

$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

1 1
16384 8192 4096 2048 1024 512 256 128 64 32 16 8 4 2 1
32768

while ((x &=(x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 . 4096 . 512 . 64 . 8 . !
i i i i o o

$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

↓
16384 8192 4096 2048 1024 512 256 128 64 32 16 84 2 1
32768

while ((x &= (x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 . 4096 . 512 . 64 . 8 . !
i i i i o o

$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

↓ |
16384 8192 4096 2048 1024 512 256 128 64 32 16 84 2 1
32768

while ((x &= (x-1)) != 0) {

 ++b;

}



Cavendish Lab

0 1 7 7 7 0 0

32768 4096 512 64 8 1
i i i i o o

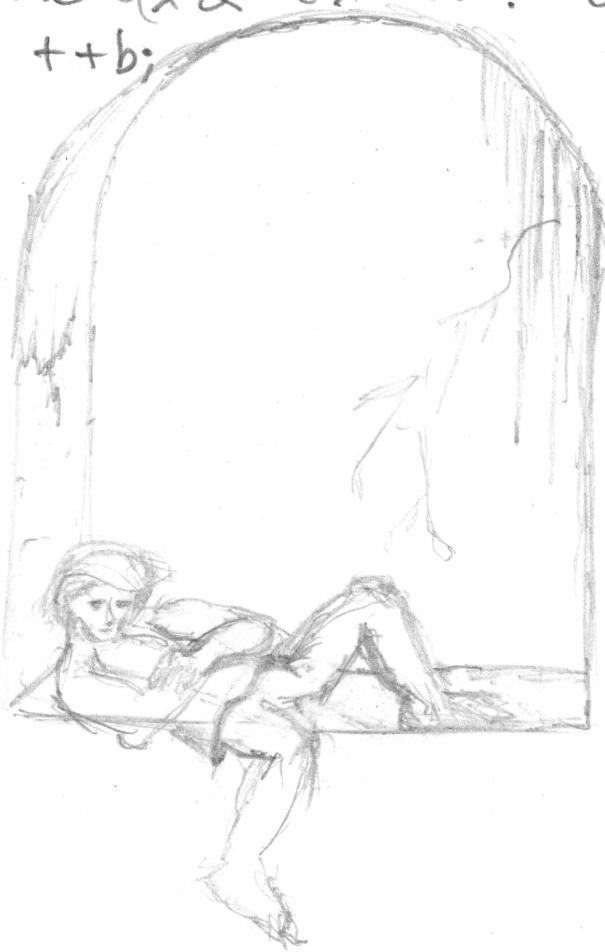
$$32768 + 28672 + 3584 + 448 + 0 + 0 = 65472$$

1 1
16384 8192 4096 2048 1024 512 256 128 64 32 16 8 4 2 1
32768

while ((x &=(x-1)) != 0) {

++b;

}



Cavendish Lab