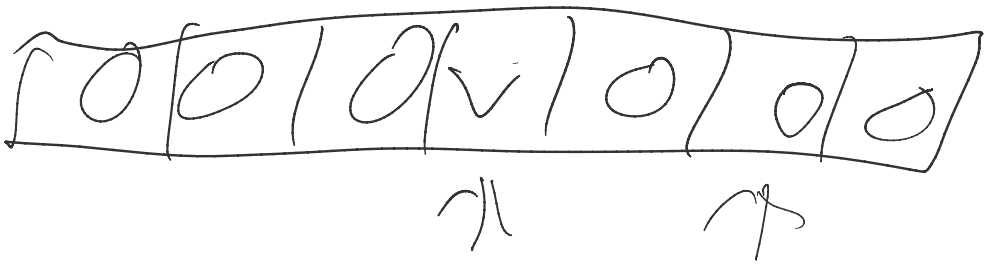
Drzewa przedzialowe 06.11

Friday, 6 November, 2020 16:51

U : x v

Q : x



U : x v

Q : a b

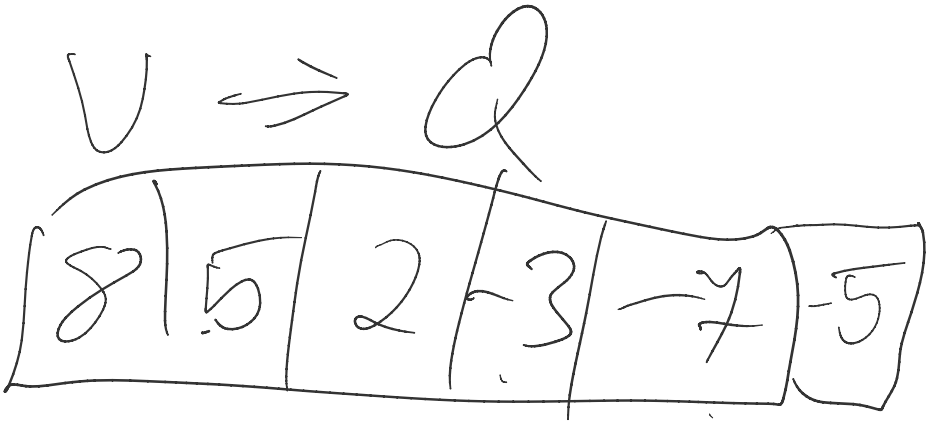
U → Q

a + b + c

U ! a b v

Q : x

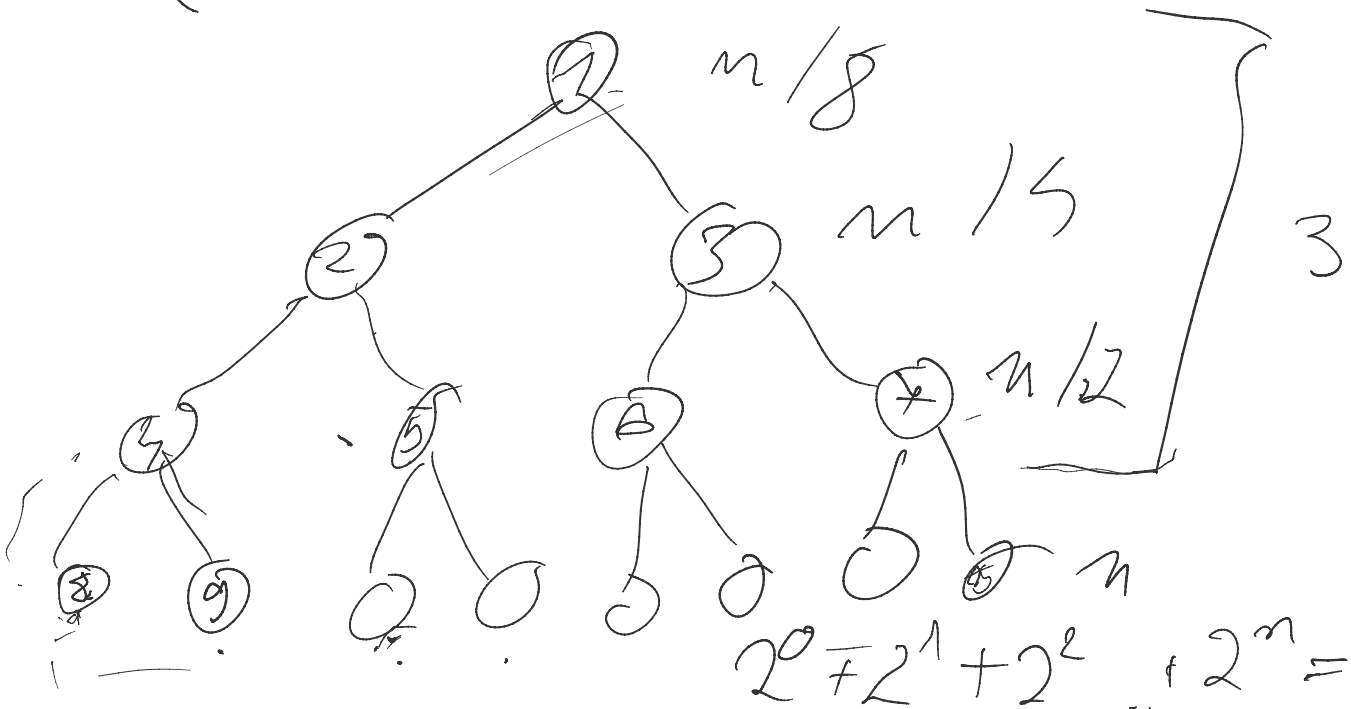
V ⇒ Q



8 13 15 12 5 0

U : x V

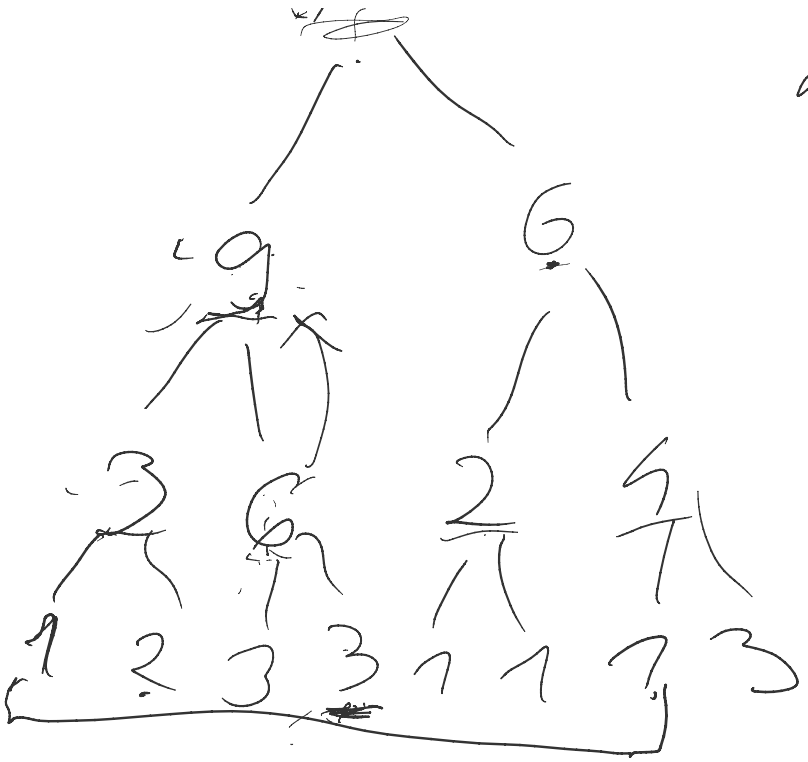
Q : a b



$2^0 + 2^1 + 2^2 \dots + 2^n = 2^{n+1} - 1$

25

a[1] = b[2]



a12 = 612

UON

8

5+6=11

10+2=12

1+1=2

2+2=4

1 << 20

0 0 20

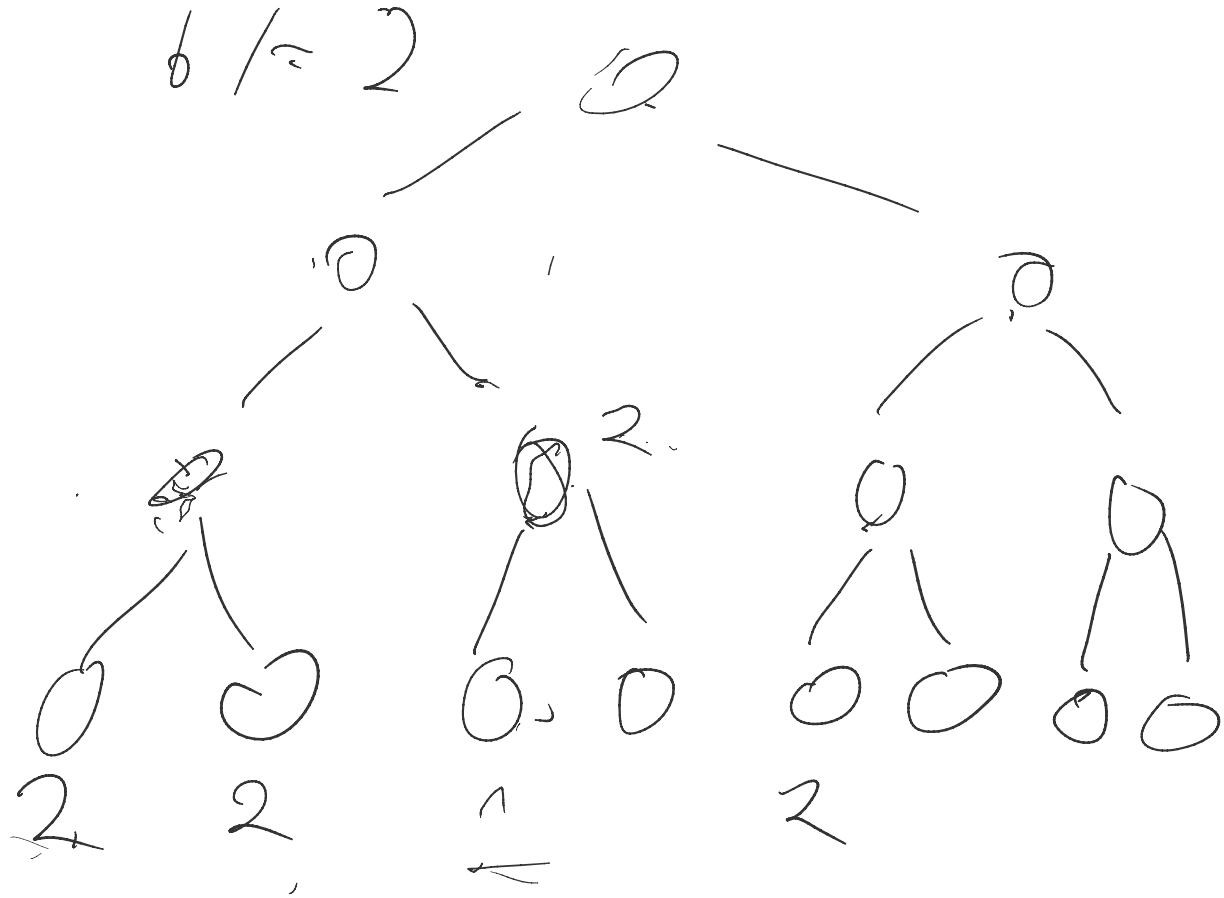
int [2. 1<<20]

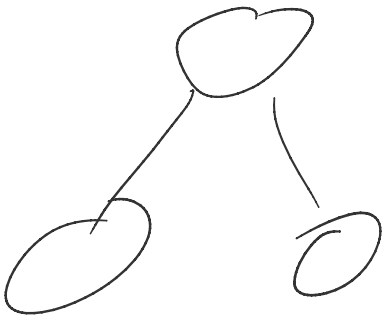
a[i]+=1

```
x += 1<<20;
(t[x] += v;
 x /= 2;
```

Q:

```
a += 1<<20;
b += 1<<20;
int res = a;
if(a != b)
    res += b;
while(a/2 != b/2)
    if(a%2==0)
        res += t[a+1]
    if(b%2==1)
        res += t[b-1]
    a /= 2
```



U: a b ∨

Q: a b