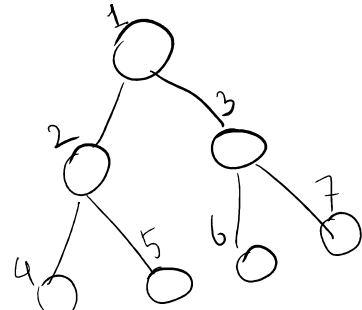
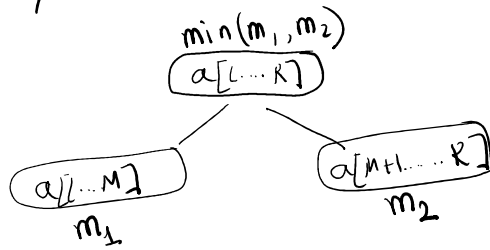
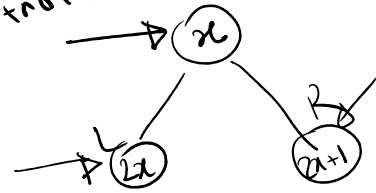


Problems

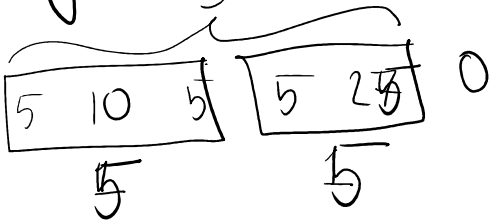
1) Range minimum/maximum, Point update



$$tree[nd] = tree[nd+nd] + tree[nd+nd+1]$$

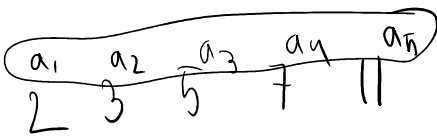


2) Range ^{LCM}gcd / Point update



void build(.....)

$$tree[nd] = -gcd(left, right);$$



```
int gcd(int a, int b) {
    if (b == 0) return a;
    return gcd(b, a % b);
}
```

$$\frac{2 \cdot 3 \cdot 5 \cdot 7 \cdot 11}{2 \cdot 3 \cdot 5 \cdot 7 \cdot 11} = 1$$

