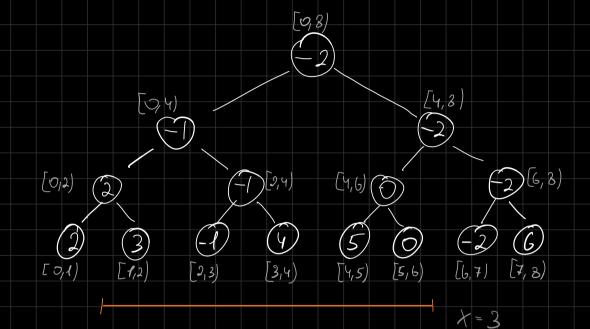
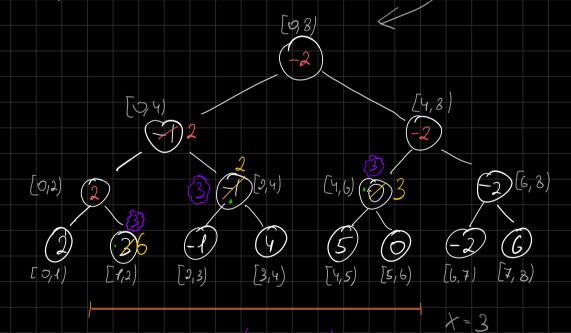
Depeto orpeznot

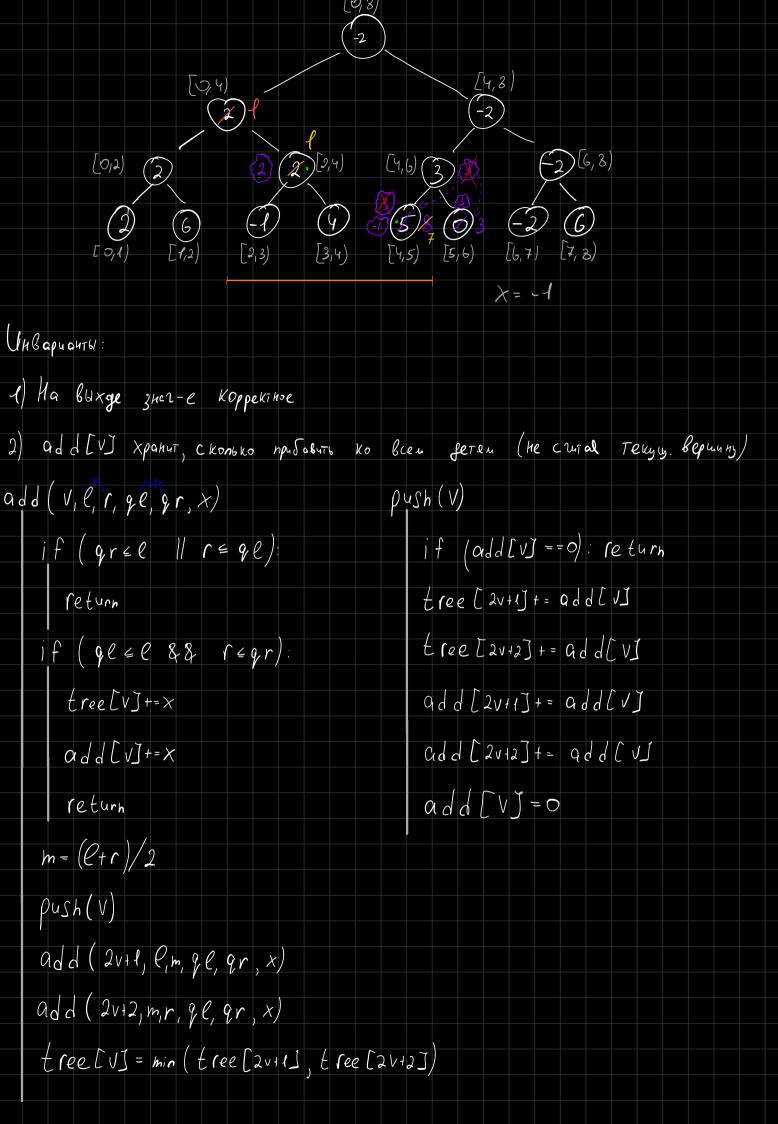
- · get er //min (9e, 9e+,,..., 9r.)
- · add er x // Ge+=x, Ge, +=x,..., G, +=x



U.C.n. lenuble otromethuse Ohnepayu



- 1 xo74 n K ge7en hpu бовить × (add [V])
- 2 neugen hpegkob
- M hpu Soln. K Bepunnan X



```
get (√, e, r, ge, gr):
 if (qr ≤ e | | r ≤ q e):
  return +∞
  if (gl = l 88 r = gr):
  return treecvs
  push (V)
  m = (P11)/2
 return min ( jet (2v+8, l, m, ql,q1), jet (2v+2, m, l, ql, qx))
· get er //sum (9e, 9e+, ..., ar.)
·add erx
pet (V, l, r, ge, gr):
if (qr < e | | r ≤ qe):
  return 0
  if (gl = l &8 r = gr):
  return treetvs
  push (V)
  m = (P11)/2
  return sum ( jet (2v+1, l, m, ql, qr), jet (2v+2, m, l, ql, qr))
```

add (V, l, r, gl, gr, x) push (V, C, m, r) if (gr∈e 11 r = qe): if (add[v] == 0): return tree[2v+1]+= add[V]·(m-e) return if (ge = e & & r = gr): tree [2v+2] += add[v]·(r-m) tree[v]+=x.(r-e) add[2v+1]+= add[V] add[v]+=x add[2v+2]+= add[V] add[V]=0 return m = (etr)/2push (V, C, m, r) add (2v+1, P,m, ge, qr, x) add (2v+2, m, r, 9e, 9r, x) tree [J] = min (tree [2v+1], tree [2v+2]) · pet e r //sum (9e, 9e+,,..., 9r.) . add er x // ae=x, ae, x, ., ar, x get (V, l, r, ge, gr): if (qr < e | | r ≤ qe): return 0 if (gl = l & 8 r = gr): return tree [V] push (V) m = (P11)/2 return sum (jet (2v+1, l, m, ql,q1), jet (2v+2, m,l, ql,qx))

```
add (V, l, r, gl, gr, x)
                                             push (V, C, m, r)
 if (gree 11 r = ge):
                                                if (add[v] == 0): return
                                                 tree [ 2v+1] = add[ V]·(m-e)
    return
                                                 tree [2v+2] = add[v]·(r-m)
   if (ge = e & & r = gr):
    tree[v] = \times \cdot (r-e)
                                                 add[2v+1]+= add[V]
     add[V]+=X
                                                 add[2v+2]+= add[V]
                                                add[V]=0
    return
   m = (e + r)/2
   push (V, C, m, r)
   add (2v+1, P,m, 9e, 9r, x)
   add (2v+2, m, r, ge, qr, x)
  tree[V] = min (tree[2V+1], tree[2V+2])
  Setx <=> sety
  Set 4
 add er x d // Qe += x , Qe+, += x+d, Qe+ = x+2d,..., Qr-, += x+d (...)
  \Rightarrow (\chi_1 + \chi_2) (d_1 + d_2)
  \lambda_2 \lambda_2 \lambda_2 + \lambda_2 + \lambda_3 + \lambda_4 + 2\lambda_2 \dots
      X X+d... / X X+J
```

