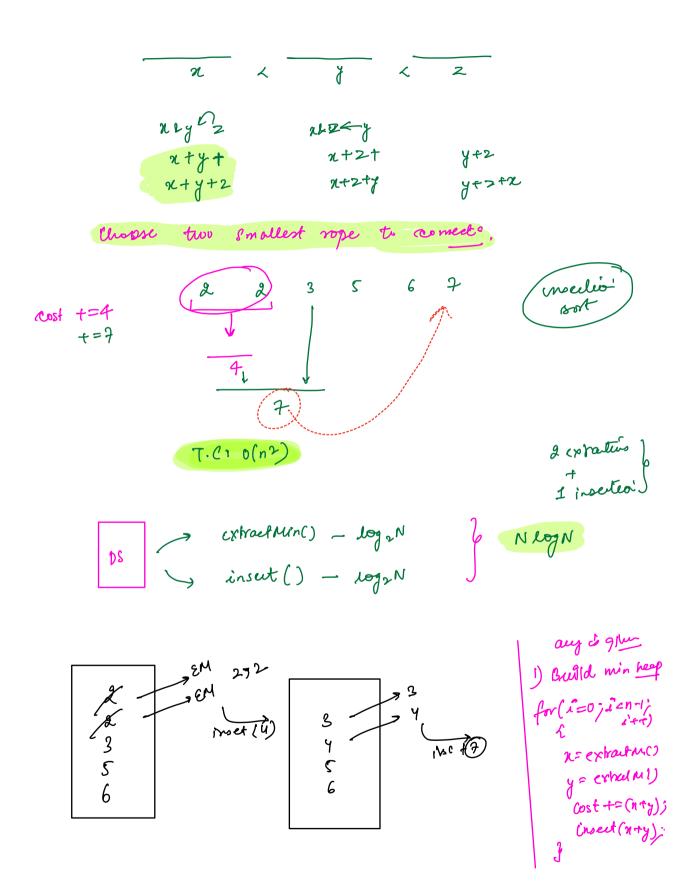
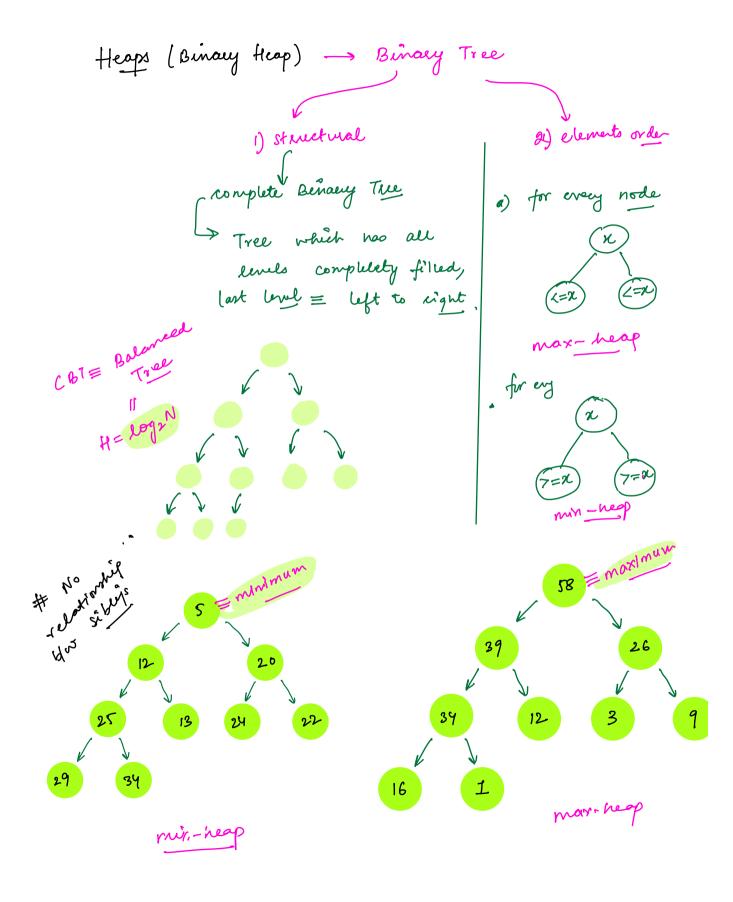
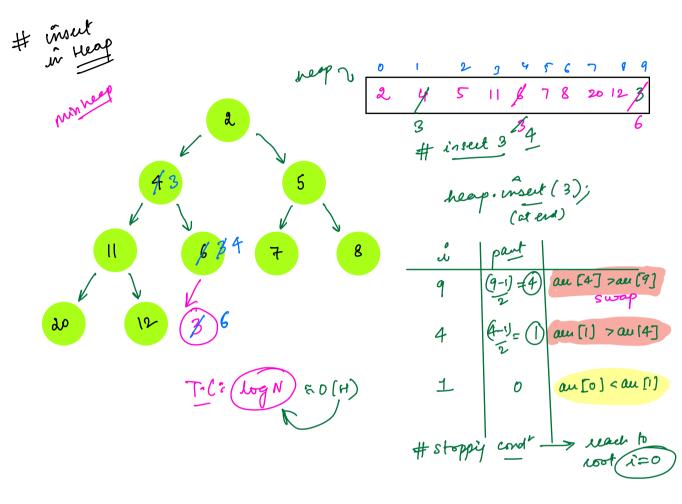
72 7 7 7 7

rost of ronnectif 2 ropes = sum of leytr of 2 ropes

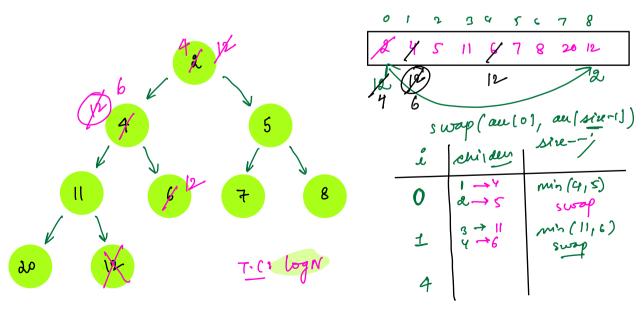
Find minimum cost to connect all the ropes, connecting two at a time.

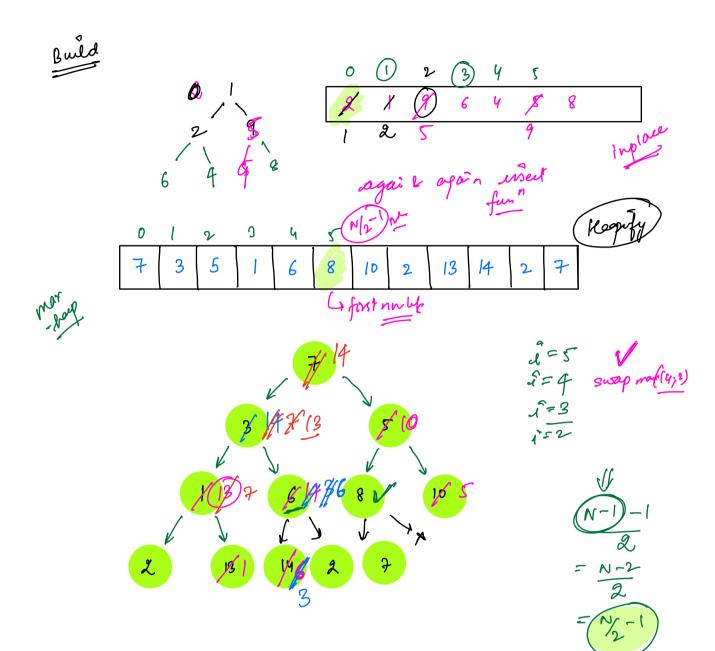






extract min - return the min dent





T.C:
$$N_{12} * 0 + N_{14} * 1 + N_{18} * 2 + N_{116} * 3 ... -$$

$$= N_{12} \left(\frac{1}{2} + \frac{2}{4} + \frac{3}{8} + \frac{9}{16} ... - \right)$$

T.C: $N_{12} * 2 = O(N)$

$$S = \frac{1}{2} + \frac{2}{4} + \frac{3}{4} + \frac{5}{16} + \frac{5}{32} ...$$

$$S_{12} = \frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{3}{4} + \frac{5}{4} + \frac{5}{32} ...$$

$$S_{12} = \frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{3}{4} + \frac{5}{4} + \frac{5}{$$

```
heapity (heap!), ind i)

white (2i+1 < sin )

x = max(neopis), heaplditil, heaplditel);

if (x = = heap(i))

dutter; if

else if (x = = heap(2i+1))

swap(heapli), heap(2i+1));

i = ditl;

else if

swap(heapli), heap(2i+1);

i = 2i+2;
```

N chocolate bags, each hoving A[i] chocolates.

Kid ⇒ select the bag with max no of chocolates to eats it.

Magician ⇒ File the bag again by A[i]_2 chocolates.

Find no of chocolates kid can cot in k steps.

K=4

A= [10, 3, 1×, 8, 4] K=5

and t=15

3

**Now to be a part of the bag again by A[i]_2 chocolates.

N = 4

A= [10, 3, 1×, 8, 4] K=5

**Now to be a part of the bag again by A[i]_2 chocolates.