Review for Test 1.
Range Minima Queres
- Segment Trees
- subtree for first helf on list, second half on Right
- recursively
- Know how to construct by hard
- Know what nodes you need to acamine
(path.) by hand - keep them minimal
O(1g n) givery
- Sparse Trees ("2" range precompute")
- Know how to construct a table
- Know how to do a query
- why does it take O(1900) time to query?
- Who how to do a query
- why does it take O(1900) time to query?
- How much space... it indices are lig n in size?
- Array Blockey
$$S = \frac{13}{4}$$

What is The Look-up Table?
How big is it?
What is The Look-up Table?
How did we get O(1910), when I
 $O(\frac{n}{19n})$ entries in Love-up table?

Lowest Common Ancestor LCA
- RMQ
$$\leq_{\Theta(3)}$$
 LCA - show?
- LCA $\leq_{\Theta(1)}$ RMQ[±]1
guerg
Claim: The RMQ[±]1 on Eulerian trie depth array
is LCA of tree.
Proof: For you to do.



also # nodes of rank r is $\leq \frac{n}{2r}$

Fib heaps Know what The DS 100Ks like after a series of ops from E Insert, ExtractMin? Igrore marks for now.