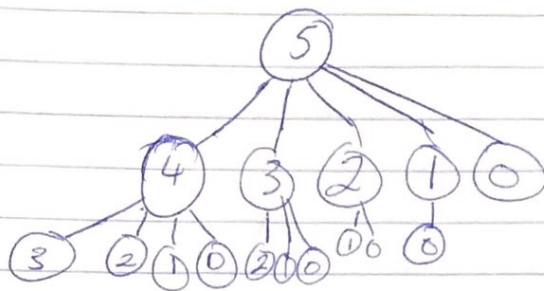


a) Tree for len 5



b) counter example =



example $n=4$

| | $i=1$ | $i=2$ | $i=3$ | $i=4$ |
|--------|-------|-------|-------|-------|
| price | 1 | 20 | 33 | 26 |
| length | 1 | 10 | 11 | 9 |

with greedy we choose $i=3$ where total
 $i=1$ = \$34
 and in optimal we should
 use 2 length 2 rods
 = \$40