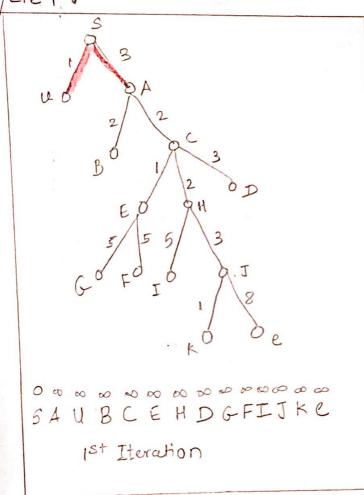
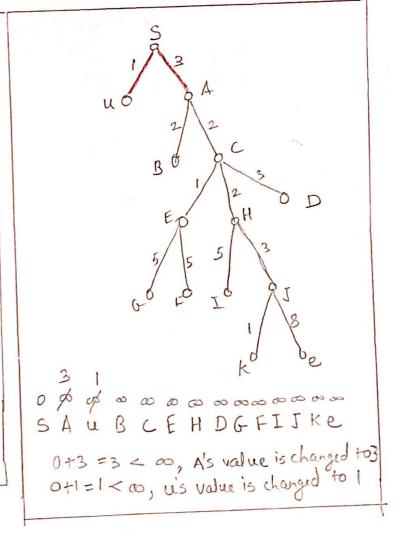
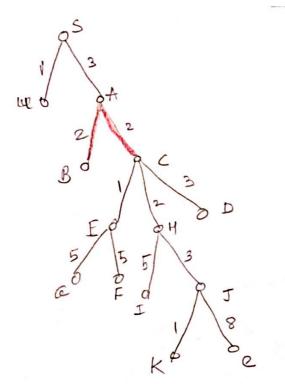
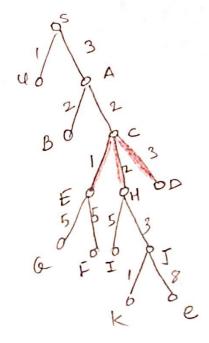


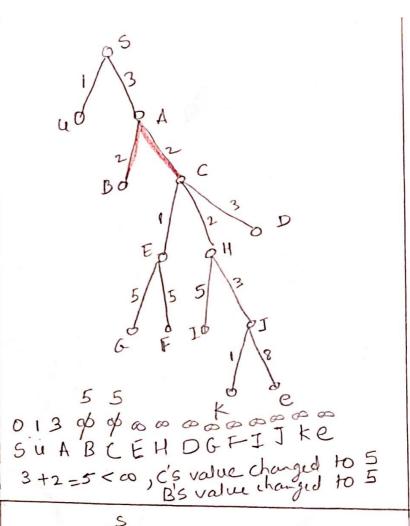
ycle 1:

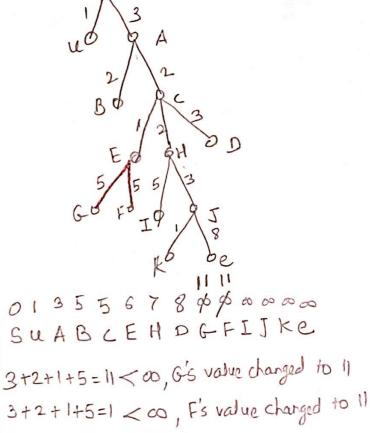


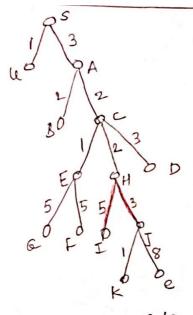




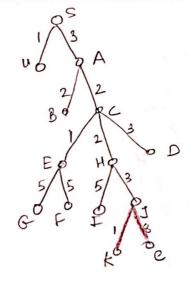




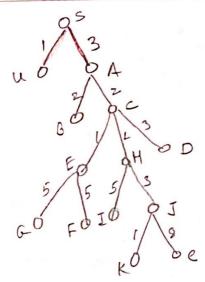




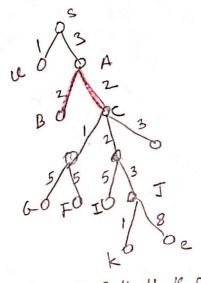
12 10 0 1 3 5 5 6 7 8 11 11 06 6 00 00 SUABCEH DGFIJKE 3+2+2+5=12 < 00, I's value changed to 12 3+2+2+3=10 < 00, J's value changed to 10



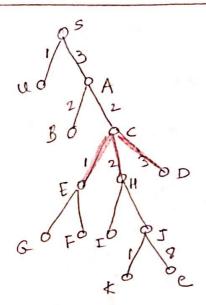
Cycle 2:



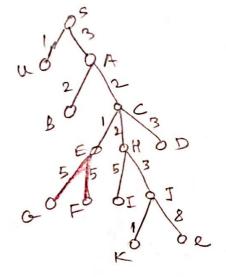
0 1 3 5 5 6 7 8 11 11 12 10 11 18 9 U A B L E H D G F I J K e 0+1=1; u's value is not changed 0+3=3, A's value is not changed



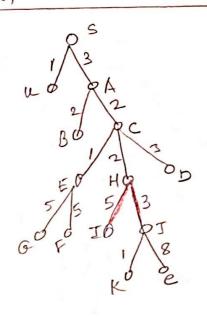
0 1 3 5 5 6 7 8 11 11 12 10 11 18 S U A B C E H D G F I J K e 3+2=5, B's value is not changed 3+2=5, c's value is not changed



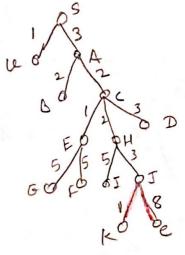
0 135567811112 10 11 18 SUABEFHDGFIJK @ 3+2+1=6, E's value is not changed 3+2+2=7, H's value is not changed 3+2+3=8, D's value is not changed



01355678 11 12 10 11 18 SUABCEHDGFIJK e 8+2+1+5=11, G's value is not changed 3+2+1+5=11, F's value is not changed



0 1 3 5 5 6 7 8 11 11 12 10 11 18 SUABCE FIDGFIJKE 3+2+2+5=12, I's value is not changed 3+2+2+3=10, J's value is not changed



01 3 5 5 6 7 8 11 11 12 10 11 18 SUABCEHDGFIJKE 3+2+2+3+1=11, K's value is not changed 3+2+2+3+8=18, e's value is not changed

Shortest path is from $5 \rightarrow A \rightarrow c \rightarrow H \rightarrow J \rightarrow e$ 0+3+2+2+3+8=18