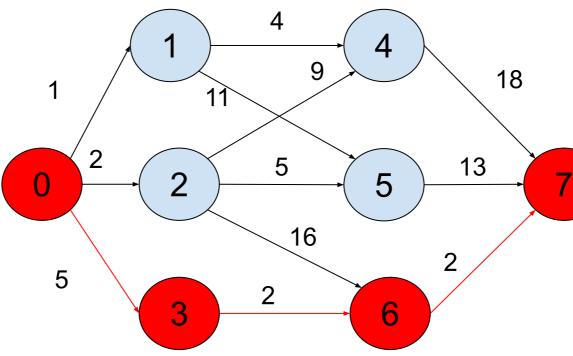
```
Dynamic programming approach (Bottom Up):
distance (7, 4) = 0
distance (4, 3) = \min \{c(4,7) + \text{distance}(7, 4)\}
                 = 18
distance (5, 3) = \min \{c(5,7) + \text{distance}(7, 4)\}
distance (6, 3) = \min \{c(6,7) + \text{distance}(7, 4)\}
distance (1, 2) = \min \{4 + \text{distance}(4,3), 11 + \}
distance (5,3)} = 22
distance (2, 2) = \min \{9 + 18, 5 + 13, 16 + 2\} = 18
distance (3, 2) = \min \{ 2 + 2 \} = 4
distance(0, 1) = min \{
                   1+ distance(1,2),
                   2 + distance (2,2),
                   5 + distance (3,2)
              = min { 1 + 22, 2 + 18, 5 + 4}
              = 9
```



Program's Solution: [9, 22, 18, 4, 18, 13, 2, 0]

```
Solution approach:
Greedy approach: we keep on selection minimum
edges from outgoing edges of each stage til reach
last node.
    0-1, 1-4, 4-7 \rightarrow 23 is this minium between 0-7?
distance(node n, stage s) = distance from node n in stage s to the
last node.
c(u,v) = cost of edge < u,v >
Stage 0,1,2,4
distance(0,1) =
                  min (
                  c(0,1) + distance (1,2),
                  c(0,2) + distance (2,2),
                  c(0,3) + distance (3,2)
distance (1,1) = min (
                  c(1,4) + distance (4,3),
                  c(1,5) + distance (5,3),
distance (2,1) = min (
                  c(2,4) + distance (4,3),
                  c(2,5) + distance (5,3),
                  c(2,6) + distance (6,3),
```

distance(7,4) = 0