- →It is best known form of BFS.
- →It avoids expanding paths that are already expensive but expands most promising path first.

$$f(n) = g(n) + h(n)$$

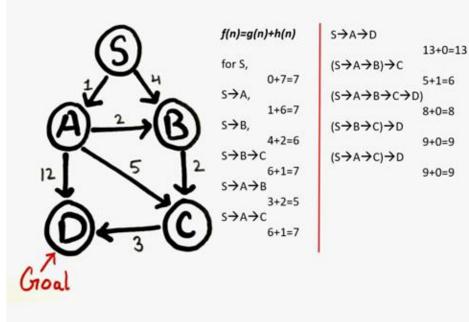
 $g(n) \rightarrow cost$ to reach the node



h(n)→ heuristic value

 $f(n) \rightarrow estimated total path to reach goal$

Syed Faizan Ahmad



Heuristic Value	
S	7
Α	6
В	2
С	1
D	0

S→A=7 ✓ S→B=6 ✓ S→B→C=7 ✓ S→A→B=5 ✓ S→A→C=7 ✓ S→A→D=13 S→A→B→C→=6 ✓ S→A→B→C→D=8 S→B→C→D=9 S→A→C→D=9

