```
dfs (graph, start, goal)
      9=[[Start]]
      While a not empty:
           Parent = 9.Pop(0)
            check if Parent ends in soal > if so return Parent
       extended Paths = extensions of parent
        is note extended Paths that add end creatins a loop
         9= nonloopPoths + 9
bfs (graph, start, soal)
     9=[[Sta(+]]
      While a not empty:
          Parent = 9.Pop(0)
            check if Parent ends in soal > if so return Parent
       extended Paths = extensions of parent
        isnore extended faths that add end creatins a loop
        9= 9 + nonloopPoths
hillClimbing (graph, start, soal)
             9=[[Sta(+]]
             While a not empty:
                  Parent = 9. Pop(0)
                    check if Parent ends in soal > if so return Parent
               extended Paths = extensions of parent
               ignore extended Paths that add end creatins a loop
                sort extended Paths by HEURISTIC (of end-squal)
                9= nonloopPoths + 9
bestfirst (graph, start, soal)
         9=[[Sta(+]]
         While a not empty:
              Sort ENTIRE 9 by heuristic Parent = 9. Pop(0)
                check if Parent ends in soal-> if so return Parent
           extended Paths = extensions of parent
            isnore extended Paths that add end creatins a loop
           9= nonloopPoths + 9
```

```
beamSearch (graph, start, 90al)
      9= 30: [[startNode]] 3
       evel = 0
       while there are still Paths in our level:
            Parent = level. Pop(0)
             if parent ends in soal -> return Parent
             find nonLoop extensions of parent
              nextlevel = nextlevel + nonloopExtensions
              sort next level Paths
              remove after first w
               if our current level is out of Paths to Poplextend
                         → start at next level
branch And Bound (graph, start, soal)
                   9= [[Start]]
                  While a not empty:
                         Sort ENTIRE 9 by LENGTH Parent = 9. Pop(0)
                          check if Parent ends in soal > if so return Parent
                     extended Paths = extensions of parent
                      isnore extended faths that add end creatins a loop
                      9= nonloopPoths + 9
aStar (graph, start, soal)
        9=[[Sta(+]]
         While a not empty:
             sort 0 by LENGTH + HEADISTIC Parent = 9. POP(0)
               check if Parent ends in soal > if so return Parent
         extended Paths = extensions of parent
          isnore extended Paths that add end creatins a loop
           9= 9 + nonloopPoiths
```