

```
function graph_search(s,aL,isDepth::Bool=true)
    # Initialization
    n=length(aL) #number of nodes → ○(i)
    pred=zeros(Int,n)
    marked=Int[s] \bigcirc(i)
                  (1)
    List=Int[s]
    # Now I can stard doing the actual work
    while !isempty(List)
        i=isDepth? List[end]:List[1] #This is the current node
        j=find\_addmissable(aL,marked,i) O(h) if j>0 # We found an addmissable arc
                                                                    m
            push!(marked,j)
            pred[j]=i
            push!(List, j)
        else
            isDepth? pop!(List):shift!(List) \
        end
    end
    pred
end
 function find addmissable(L,marked list,tail)
      for head in L[tail]
          if !(head in marked list)
              return head
         end
     end
      return -1 # Special value to indicate no addmissable arc
 end
```