## DFS (Depth First Search) Desinlik Öncelikli Arama

```
DF5 (G,5)
   mark (s).
   L = { 53;
   while L+P
                      Albere exists
       u= last (1):
       if 3 (u,v) such that v is unmarked
         choose (u,v) with o of smallest index;
         mark (v);
         L= LU{0}; // push(L,0)
       e se
          L=L\{u}; // pop(L)
```

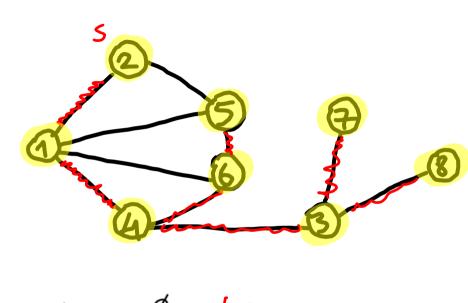
DFS de Ligin stack (Last in First out) bullonlir.

### L (stack)

#### Marked

2
2,1
2,1,4 ,-top
2,1,4,3
2,1,4,3,7
2,1,4,3
2,1,4,3,8
2,1,4,3
2,1,4
2, 1, 4,6
2, 1, 4,6,5
2, 1, 4,6
2,1,4

2,1



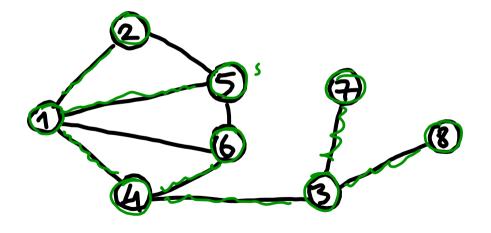
while L # D > Top

u= last(L);

if  $\exists (u,v)$  such that v is unmorted choose (u,v) with v of smallest index mark(v);  $L=LU\{v\};$  // push(L,v)

else  $L=L\setminus\{u\};$  // pop(L)

# Galisma Zamani:

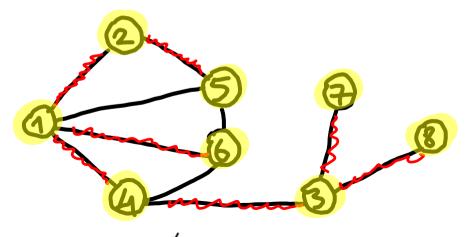


# BFS (Breadth First Search) Gerislik Öncelikli Arama

```
BFS (G,S)
  mark (s).
  L = {53?; // L kuyruktur.
  while L+P
      u= first(L):
      if ] (u,v) such that v is unmarked
        choose (u,v) with o of smallest index;
        mark (v);
        L=LU{v}; // enqueue(L,v)
      e se
        L=L\{u}; // dequeue (L)
```

Ligin kungruk veri yopisi (First in first out) kullandir.

front 2	<u>\$</u> 2
2,1	1
2,1,5	5
1,5	_
1,5,4	4
1,5,4,6	6
5,4,6	~
4,6	_
4,6,3	3
6,3	_
3	_
3,7	コ
3,7,8	ર
_	_
7,8	_
8	
4	_



while L # P

7 u= first(L);

if  $\exists (u,v)$  such that v is unmarked choose (u,v) with v of smallest index;

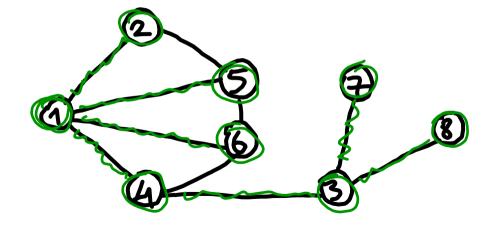
mark (v);

L=LU $\{v\}$ ; // enqueue (L,v)else

L=L $\{u\}$ ; // dequeue (L)

Galisma Zamoni:

T(IV,IEI) = O(E+V)



DFS: stack



