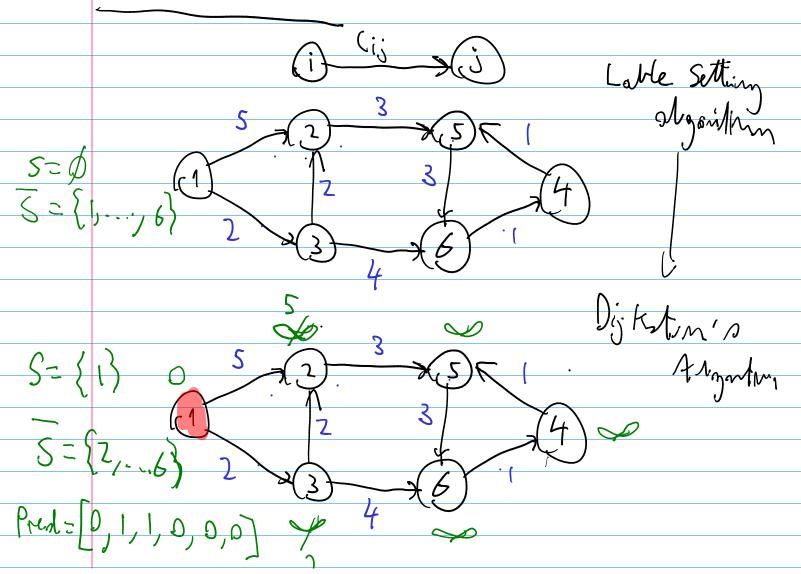
Shortest Parks



## algorithm Dijkstra;

```
begin
```

end;

```
S:=\emptyset; \ \overline{S}:=N;

d(i):=\infty for each node i\in N;

d(s):\widehat{=}0 and \operatorname{pred}(s):=0;

while |S|< n do

begin

let i\in \overline{S} be a node for which d(i)=\min\{d(j):j\in \overline{S}\};

S:=S\cup\{i\};

S:=S\setminus\{i\};

for each (i,j)\in A(i) do

if d(j)>d(i)+c_{ij} then d(j):=d(i)+c_{ij} and \operatorname{pred}(j):=i;

end;
```

