

HOPCROFT-KARP(G)

```
1   $M = \emptyset$   
2  repeat  
3      let  $\mathcal{P} = \{P_1, P_2, \dots, P_k\}$  be a maximal set of vertex-disjoint  
        shortest  $M$ -augmenting paths  
4       $M = M \oplus (P_1 \cup P_2 \cup \dots \cup P_k)$   
5  until  $\mathcal{P} == \emptyset$   
6  return  $M$ 
```