
Algorithm 1: Skeleton of a greedy algorithm

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1 while not is_solution( $S$ ) and  $Candidates \neq \emptyset$  do  
2    $c \leftarrow select(Candidates)$   
3    $Candidates \leftarrow Candidates \setminus \{c\}$   
4   if verify( $S \cup \{c\}$ ) then  
5      $S \leftarrow S \cup \{c\}$   
6 return  $S$ 
```
