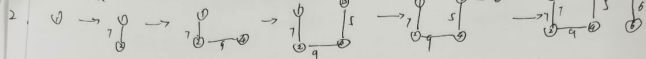
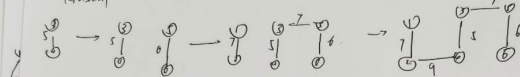


1. Graph:

1. Prim:



2. Kruskal:



2.  $A \rightarrow B : 10$

$A \rightarrow C \rightarrow D \rightarrow E : 17$

$A \rightarrow B \rightarrow D : 15$

$A \rightarrow B \rightarrow D \rightarrow E : 17$

3. a)  $A \rightarrow B : 5$

$A \rightarrow C : 3$

$A \rightarrow C \rightarrow D \rightarrow E : 9$

$A \rightarrow B \rightarrow D \rightarrow E : 7$

$A \rightarrow B \rightarrow D \rightarrow E \rightarrow F : 8$

$A \rightarrow B \rightarrow D : 6$

b)  $B \rightarrow C \rightarrow D \rightarrow A / D \rightarrow E \rightarrow F \rightarrow A$

$B \rightarrow C$

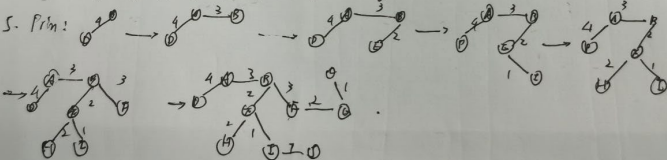
$B \rightarrow C \rightarrow D / A \rightarrow E \rightarrow F$

$B \rightarrow E$

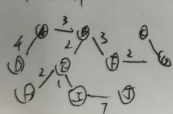
$B \rightarrow E \rightarrow F$

$B \rightarrow F$

4.  $S \rightarrow G \rightarrow D \rightarrow H \rightarrow A \rightarrow B \rightarrow E \rightarrow I \rightarrow F \rightarrow C \rightarrow J$

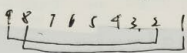
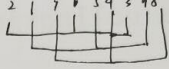


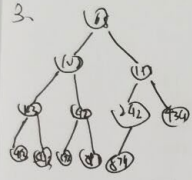
Kruskal



not

1.  $[1, 3] \rightarrow [1, 3, 4] \rightarrow [1, 1^*, 3, 4] \rightarrow [1, 1^*, 3, 4, 5] \rightarrow [1, 1^*, 3, 4, 5, 9]$   
 $\rightarrow [1, 1^*, 2, 3, 4, 5, 9] \rightarrow [1, 1^*, 2, 3, 4, 5, 6, 9] \rightarrow [1, 1^*, 2, 3, 4, 5, 6, 9]$

2.  $inverted \Rightarrow$    $inverted=3$    $inverted=1$   $214357698$   
 $123456789$



5. 3 1 4 10 5 9 2 6  
 s1:  $[1, 3]$   $[1^*, 4]$   $[5, 9]$   $[2, 6]$   
 s2:  $[1, 1^*, 3, 4]$   $[2, 5, 6, 9]$   
 s3:  $[1, 1^*, 2, 3^*, 4, 5, 6, 9]$