

(Examples)

MST

using

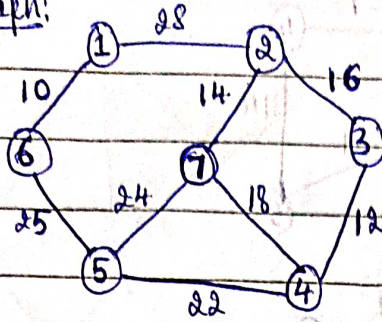
Prim's

Algorithm

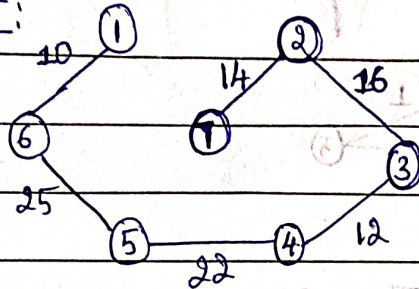
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① Graph:

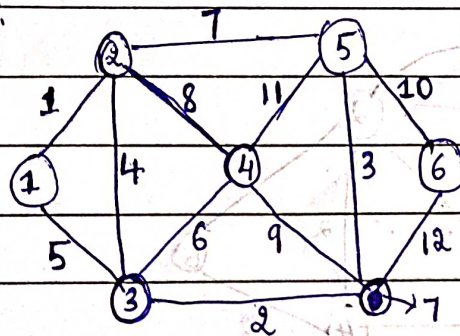


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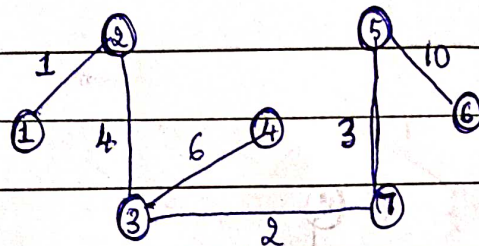


$$\text{Cost} = 10 + 25 + 22 + 12 + 16 + 14 = 99$$

② Graph:



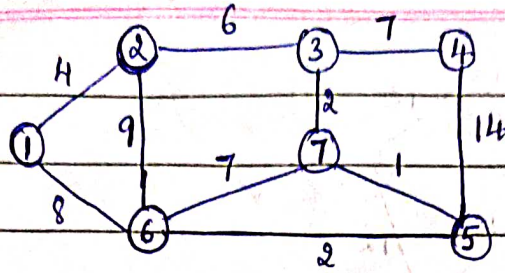
MST:



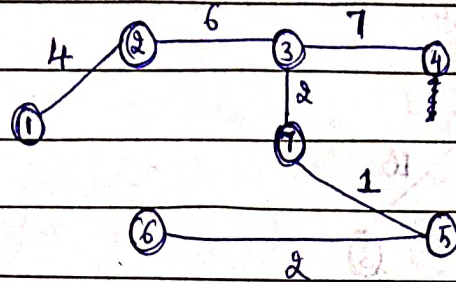
$$\text{Cost} = 1 + 4 + 6 + 2 + 3 + 10 = 26$$

③

Graph:



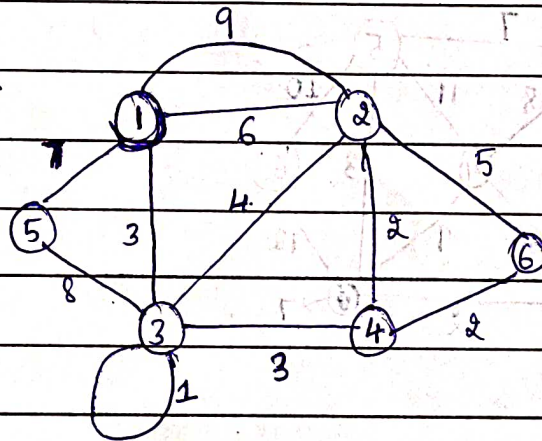
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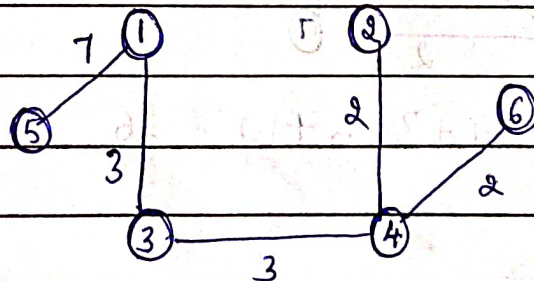
$$\text{Cost} = 1 + 2 + 2 + 4 + 6 + 7 = 22$$

④

Graph:



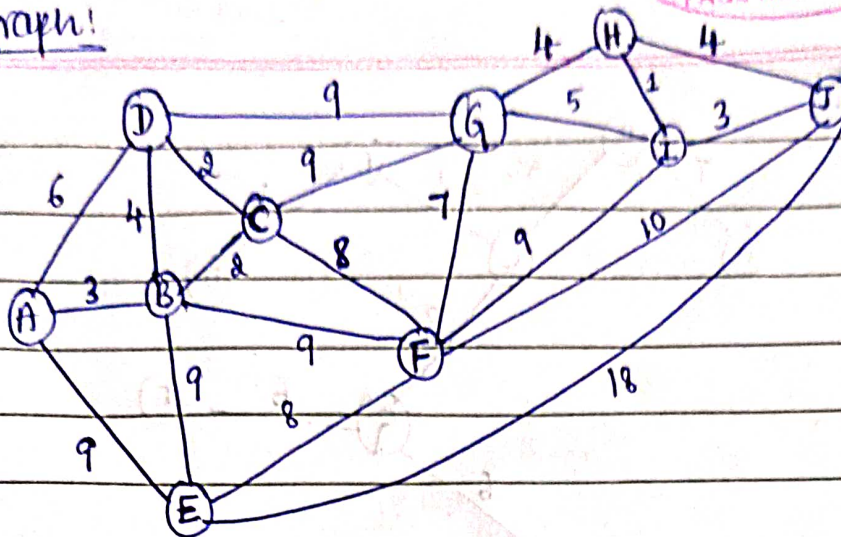
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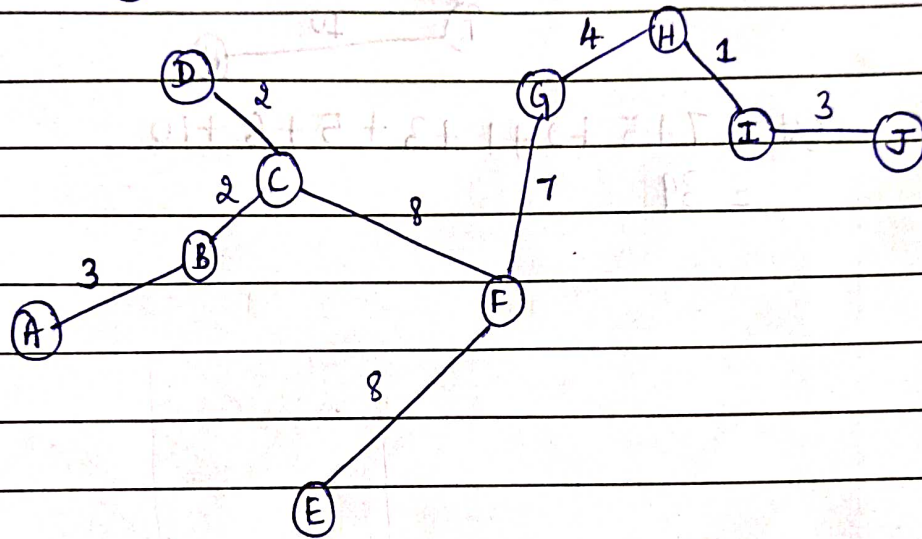
$$\text{Cost} = 7 + 3 + 3 + 2 + 2 = 17$$

Graph!

⑤



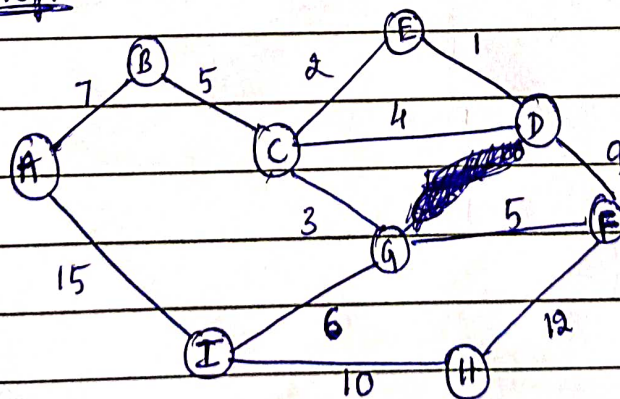
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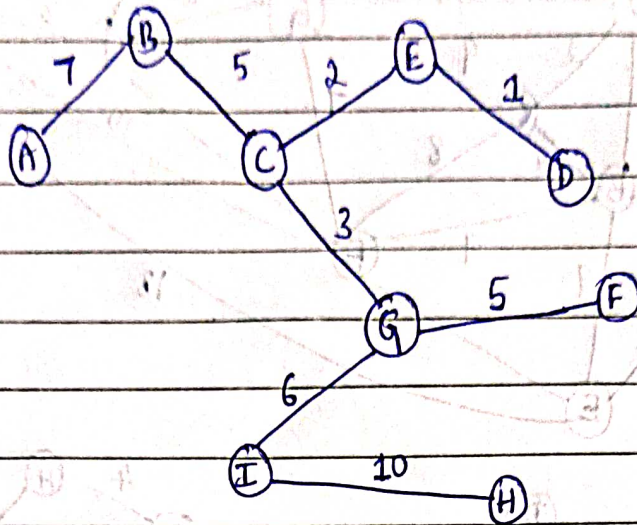
$$\text{Cost} = 3 + 2 + 2 + 8 + 8 + 7 + 4 + 1 + 3 = 38$$

⑥

Graph!



MST:



$$\begin{aligned}
 \text{Cost} &= 7 + 5 + 2 + 1 + 3 + 5 + 6 + 10 \\
 &= 39
 \end{aligned}$$

$$\begin{aligned}
 8 + 1 + 11 + 7 + 8 + 9 + 12 + 1 + 1 + 3 \\
 88 =
 \end{aligned}$$

