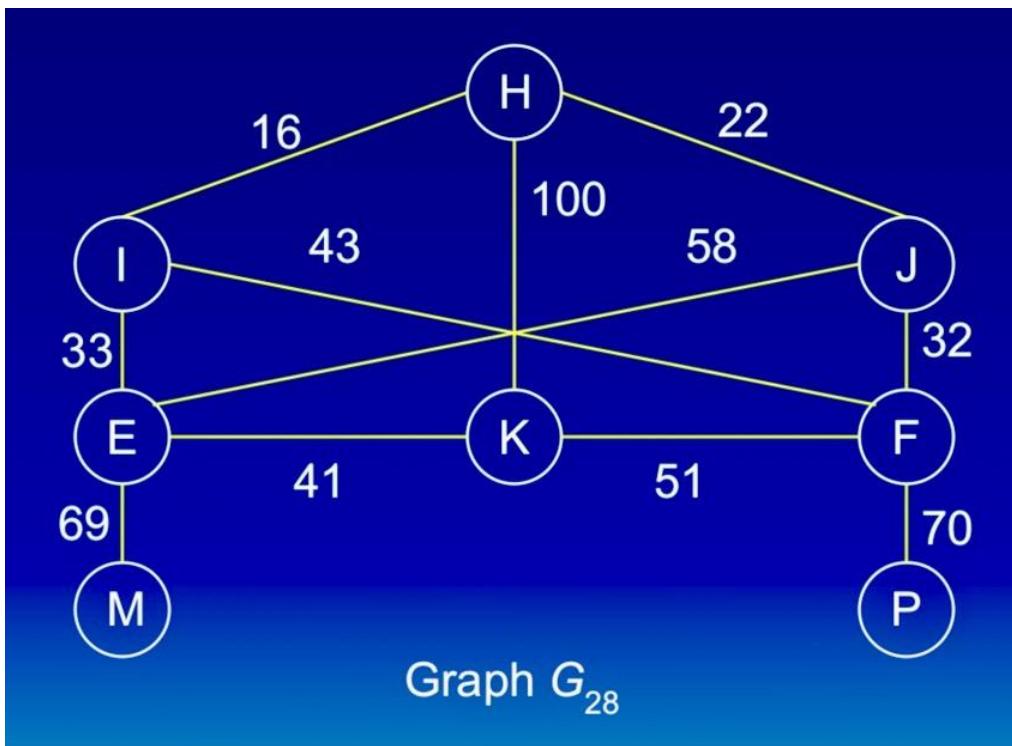
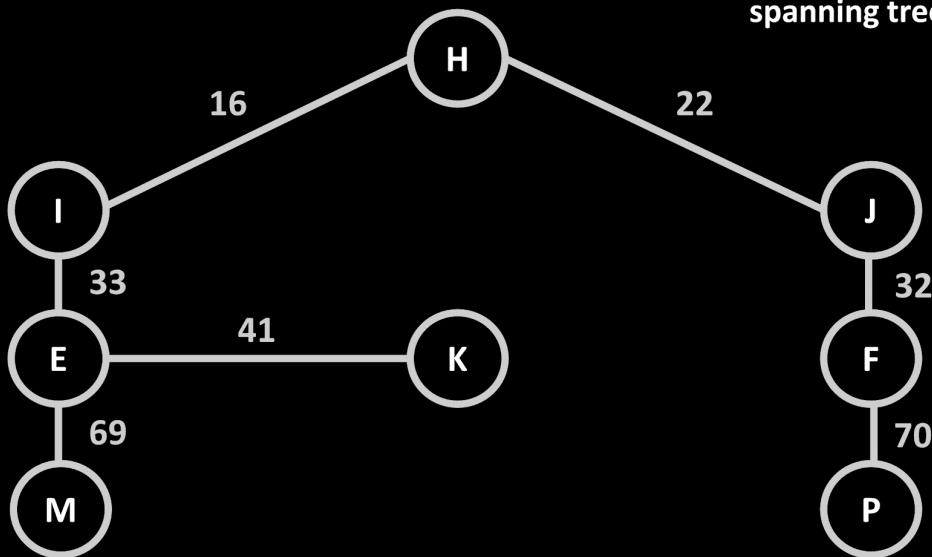


GRAPHS

Minimum Spanning Tree Generated Using Kruskal's Algorithm

KRUSKAL METHOD

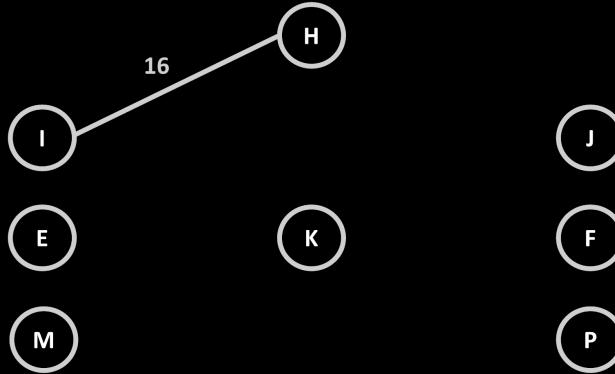
Cost of minimum spanning tree: 283



EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

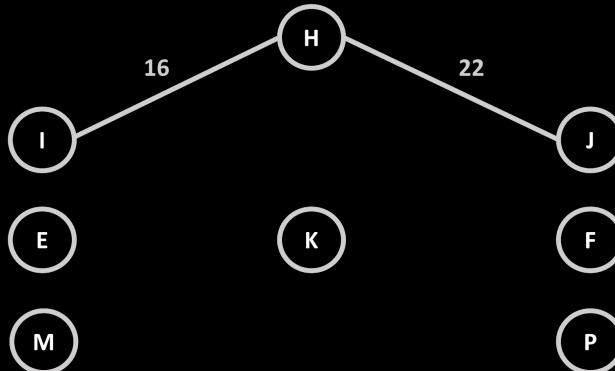
Kruskal's Algorithm on Graph 28

KRUSKAL METHOD



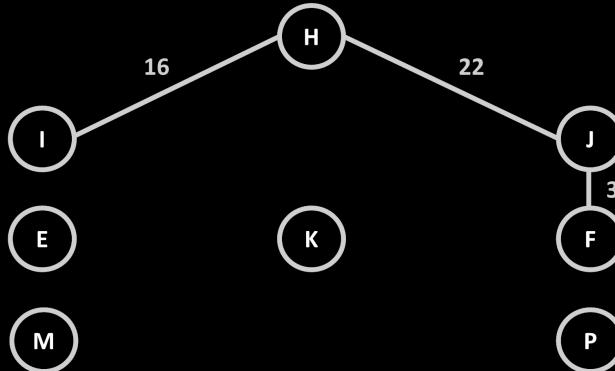
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD



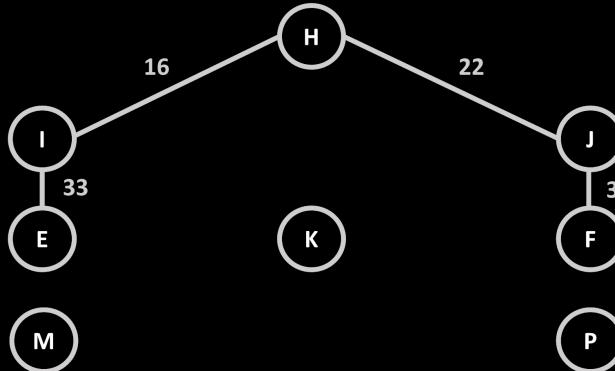
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

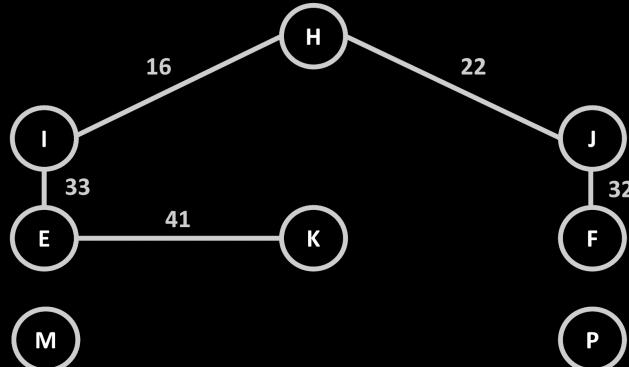


EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

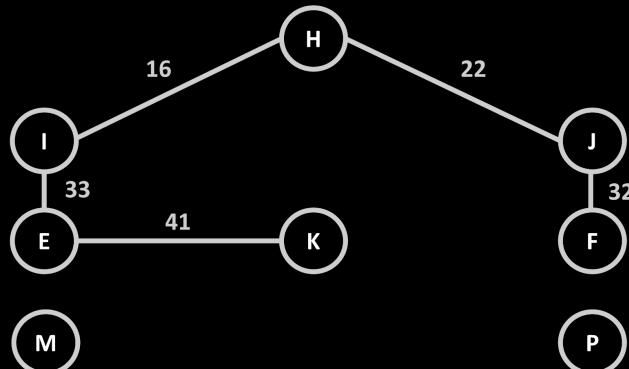
KRUSKAL METHOD



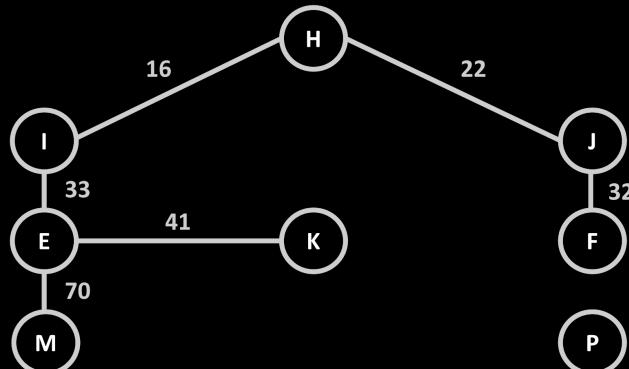
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

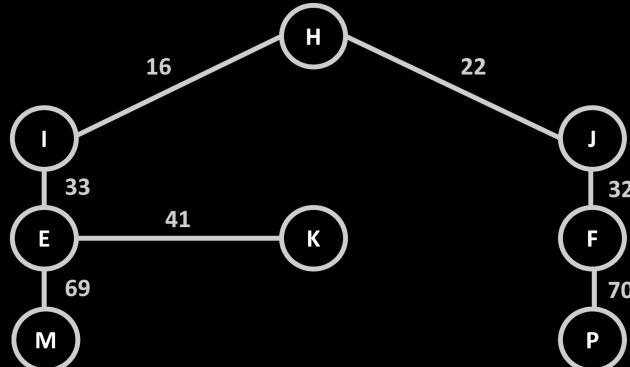
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

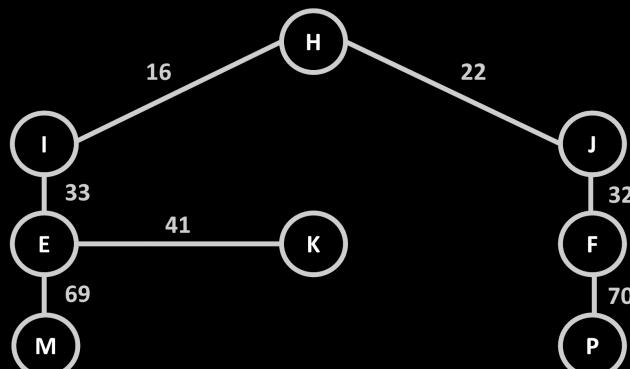
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

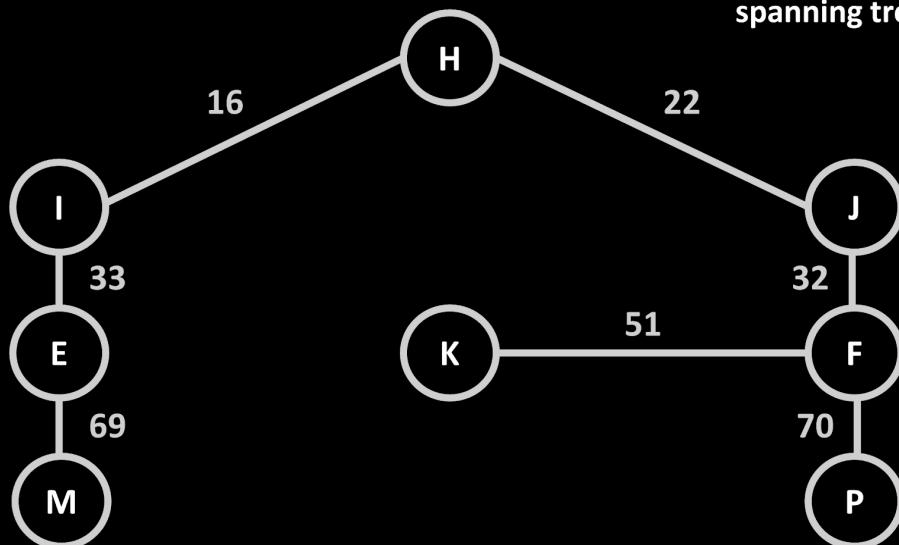
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

KRUSKAL METHOD

EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

Minimum Spanning Tree Generated Using Prim's Algorithm Starting with Vertex A

PRIMS METHOD

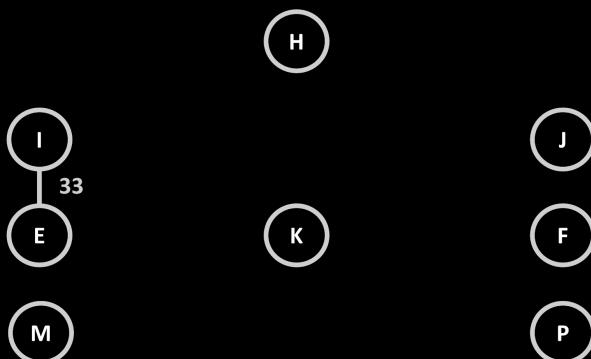


Cost of minimum spanning tree: 293

EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

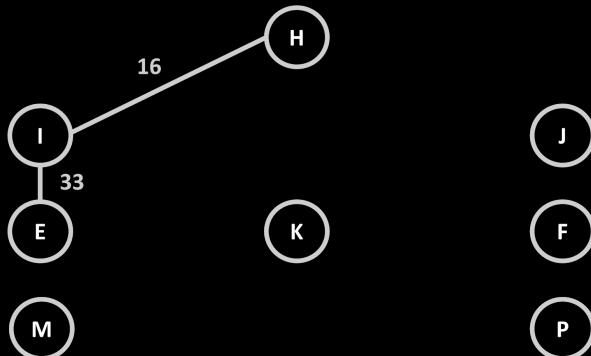
Prim's Algorithm on Graph 28

PRIMS METHOD



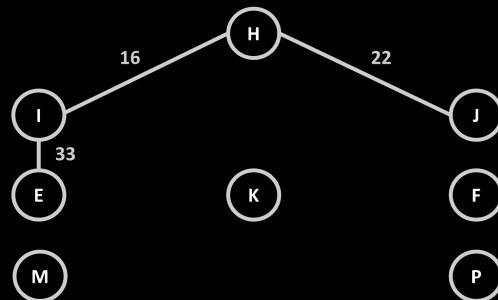
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD



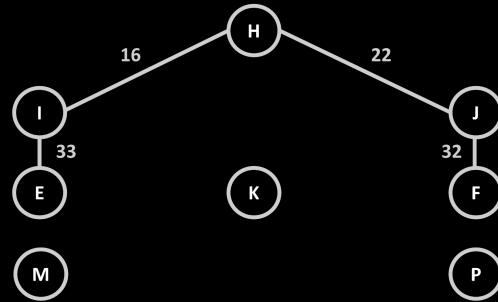
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD



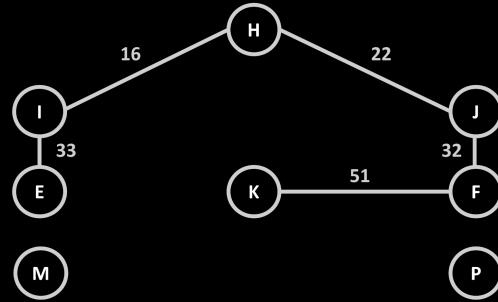
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD



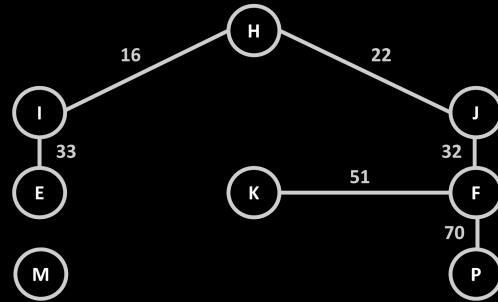
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD



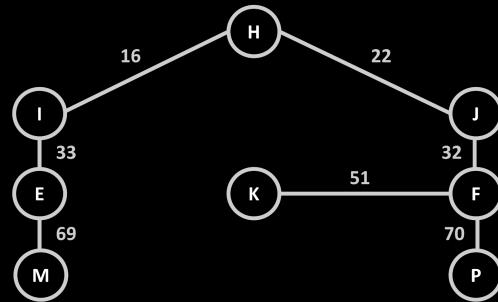
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD

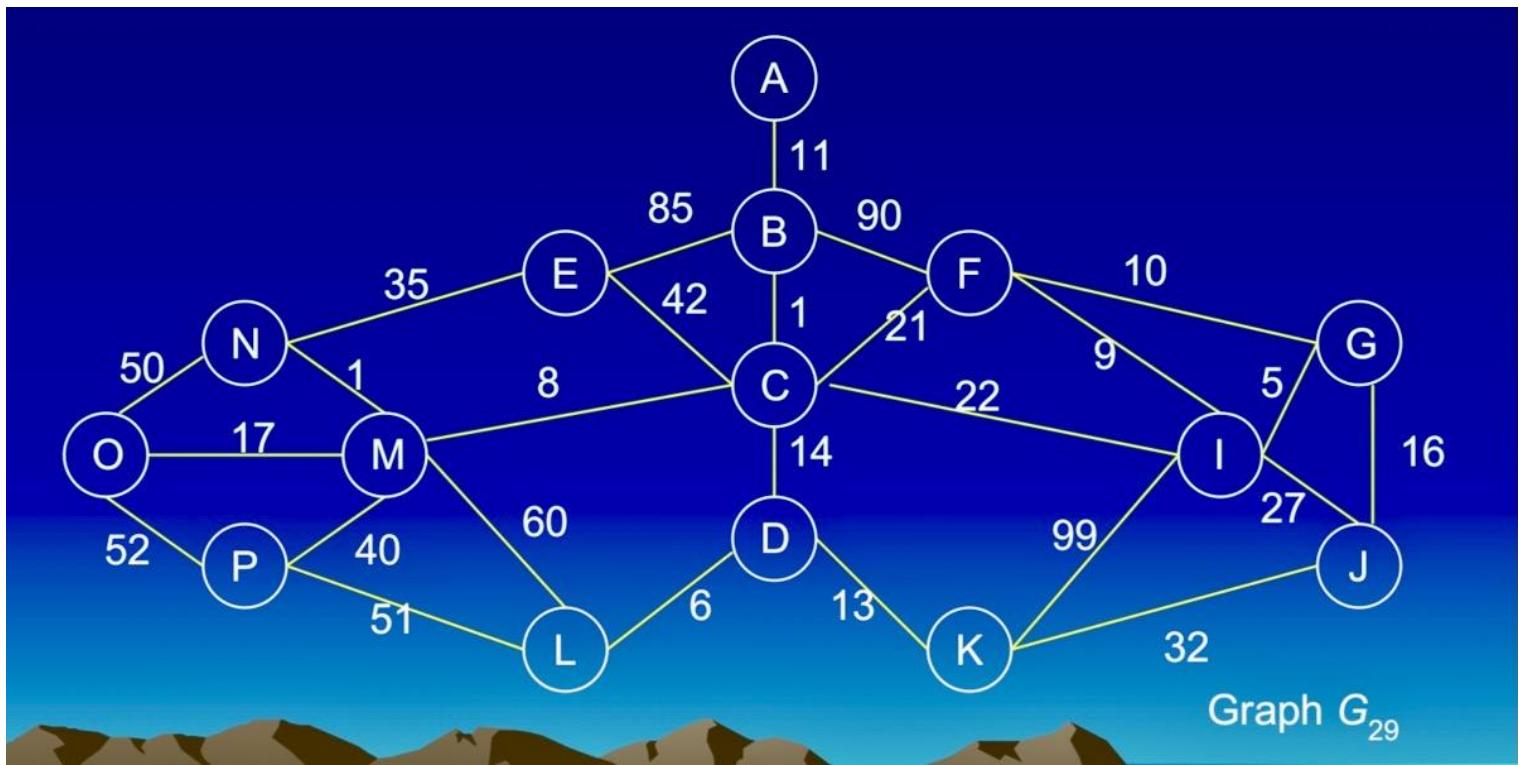


EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100

PRIMS METHOD



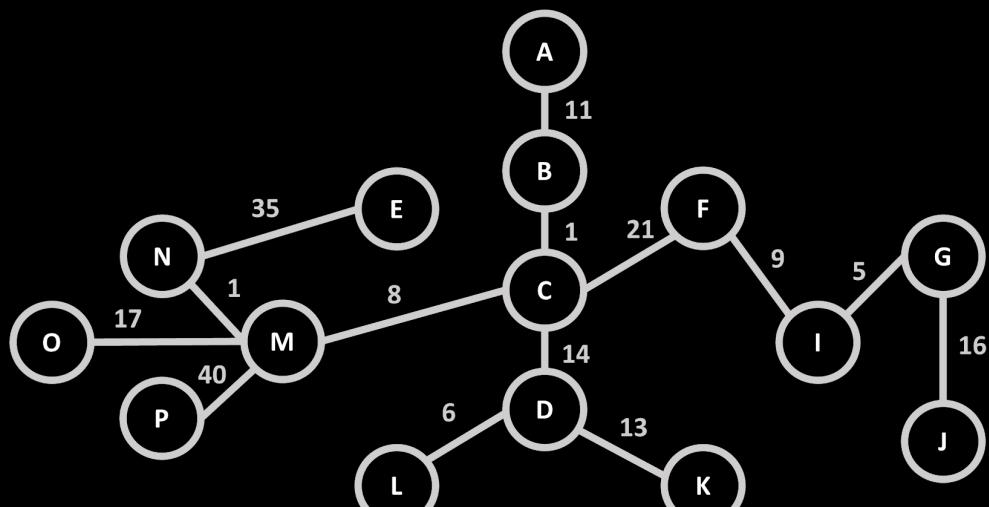
EDGE	WEIGHT
H , I	16
H , J	22
F , J	32
E , I	33
E , K	41
F , I	43
F , K	51
E , J	58
E , M	69
F , P	70
H , K	100



Minimum Spanning Tree Generated Using Kruskal's Algorithm

KRUSKAL METHOD

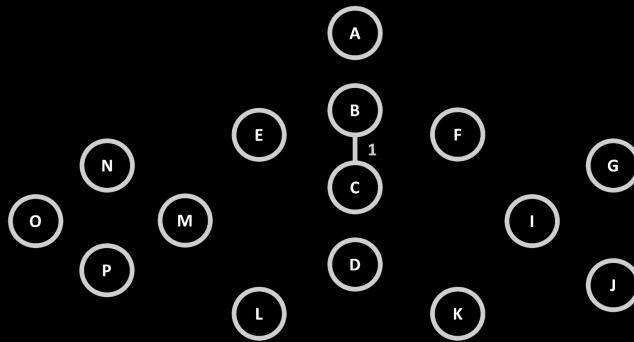
Cost of minimum spanning tree: 197



EDGE	WEIGHT	EDGE	WEIGHT
B , C	1	C , I	22
N , M	1	I , J	27
G , I	5	J , K	32
D , L	6	E , N	35
C , M	8	M , P	40
F , I	9	B , E	42
F , G	10	N , O	50
A , B	11	L , P	51
D , K	13	O , P	52
C , D	14	L , M	60
G , J	16	B , E	85
M , O	17	B , F	90
C , F	21	I , K	99

Kruskal's Algorithm on Graph 29

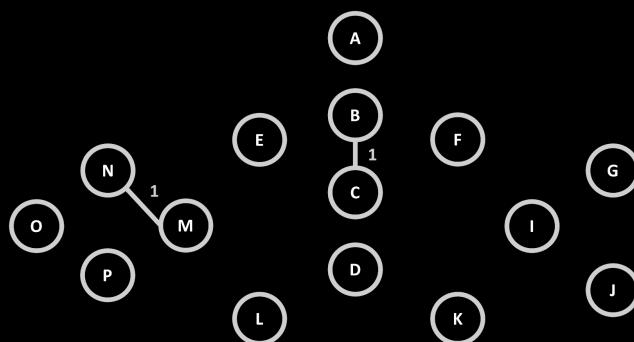
KRUSKAL METHOD



EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

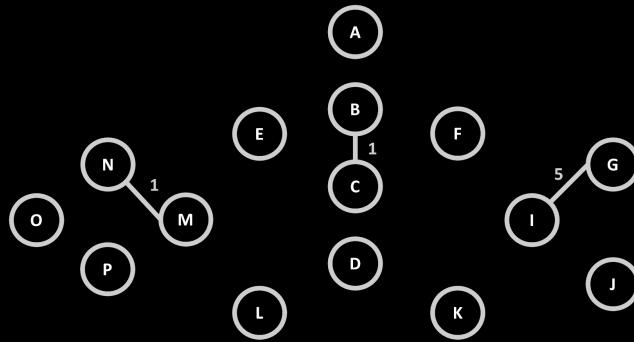
KRUSKAL METHOD



EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

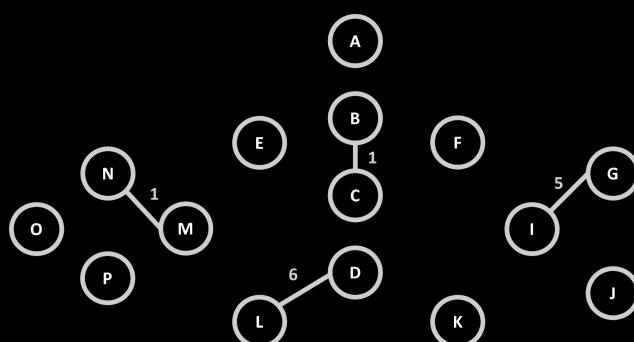
KRUSKAL METHOD



EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

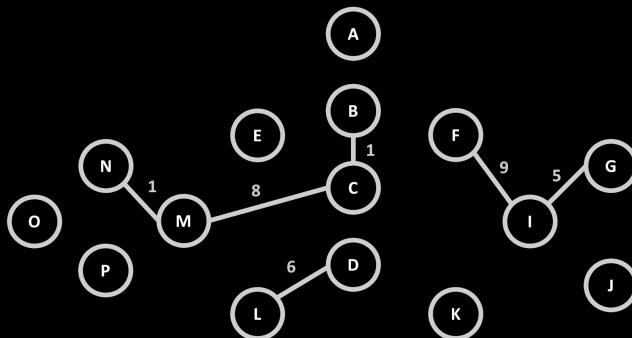
KRUSKAL METHOD



EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
I , J	27
G , I	5
J , K	32
D , L	6
E , N	35
C , M	8
M , P	40
F , I	9
B , E	42
F , G	10
N , O	50
A , B	11
L , P	51
D , K	13
O , P	52
C , D	14
L , M	60
G , J	16
B , E	85
M , O	17
B , F	90
C , F	21
I , K	99

KRUSKAL METHOD



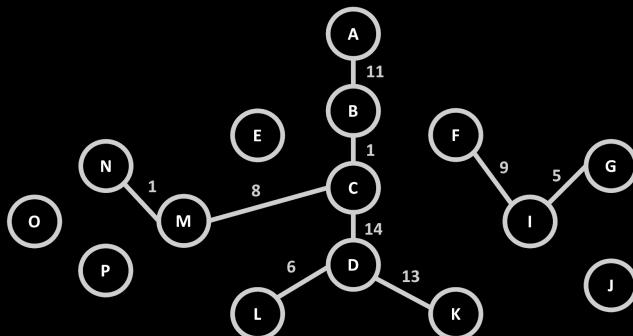
EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
L , P	21
O , P	52
L , M	60
B , E	85
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
C , F	21
I , K	99

KRUSKAL METHOD



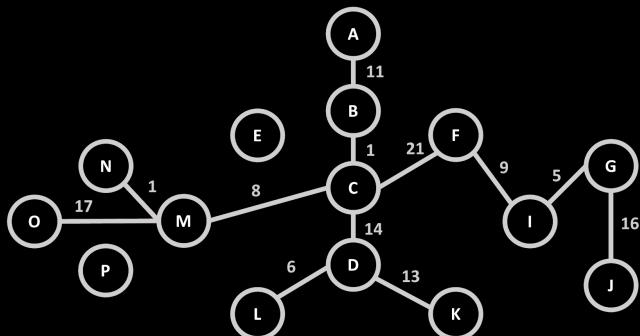
EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , O	17
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , O	17
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , O	17
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , O	17
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21
I , K	99

KRUSKAL METHOD



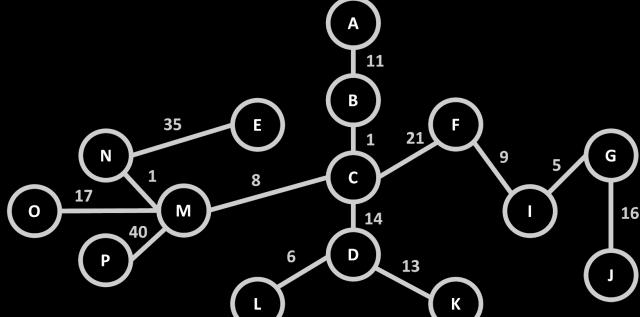
EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

KRUSKAL METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

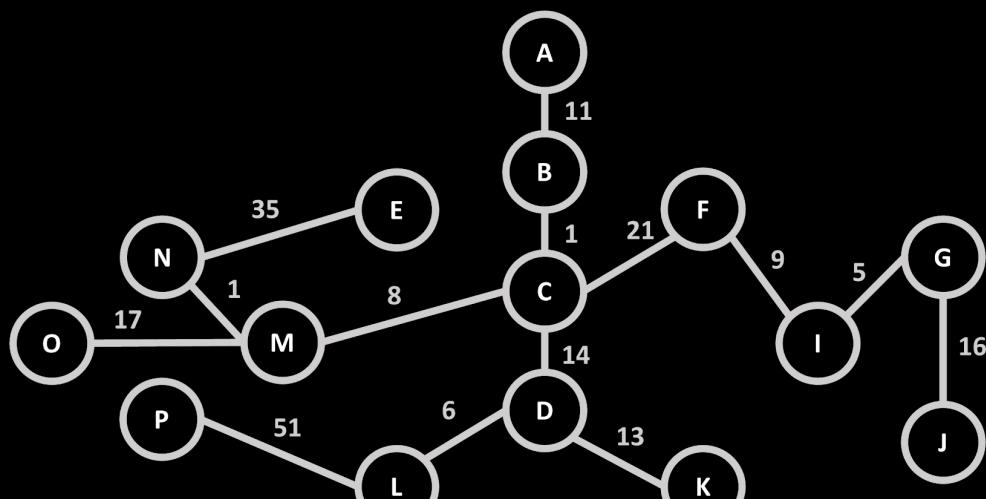
EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21

Minimum Spanning Tree Generated Using Prim's Algorithm Starting with Vertex E

PRIMS METHOD

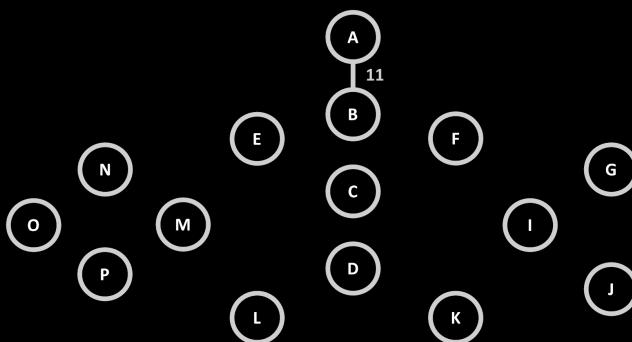
Cost of minimum spanning tree: 208



EDGE	WEIGHT	EDGE	WEIGHT
B , C	1	C , I	22
N , M	1	I , J	27
G , I	5	J , K	32
D , L	6	E , N	35
C , M	8	M , P	40
F , I	9	B , E	42
F , G	10	N , O	50
A , B	11	L , P	51
D , K	13	O , P	52
C , D	14	L , M	60
G , J	16	B , E	85
M , O	17	B , F	90
C , F	21	I , K	99

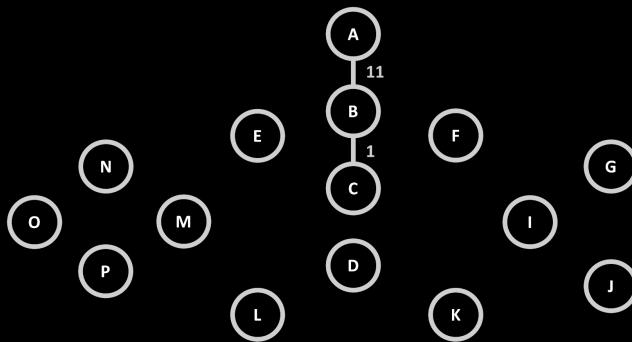
Prim's Algorithm on Graph 29

PRIMS METHOD



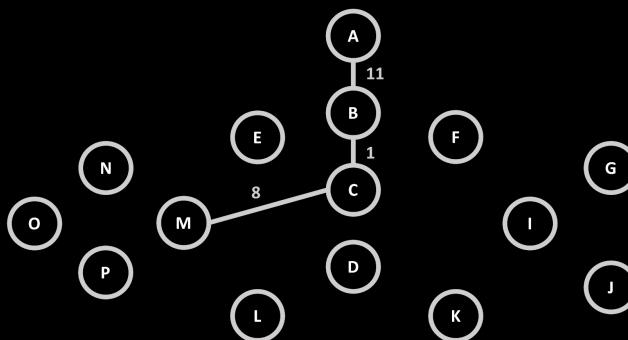
EDGE	WEIGHT	EDGE	WEIGHT
B , C	1	C , I	22
N , M	1	I , J	27
G , I	5	J , K	32
D , L	6	E , N	35
C , M	8	M , P	40
F , I	9	B , E	42
F , G	10	N , O	50
A , B	11	L , P	51
D , K	13	O , P	52
C , D	14	L , M	60
G , J	16	B , E	85
M , O	17	B , F	90
C , F	21	I , K	99

PRIMS METHOD



EDGE	WEIGHT	EDGE	WEIGHT
B , C	1	C , I	22
N , M	1	I , J	27
G , I	5	J , K	32
D , L	6	E , N	35
C , M	8	M , P	40
F , I	9	B , E	42
F , G	10	N , O	50
A , B	11	L , P	51
D , K	13	O , P	52
C , D	14	L , M	60
G , J	16	B , E	85
M , O	17	B , F	90
C , F	21	I , K	99

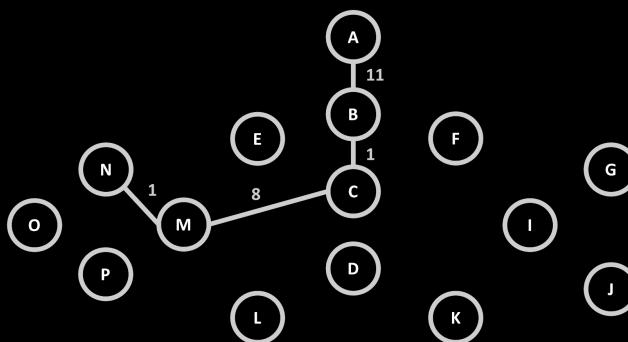
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

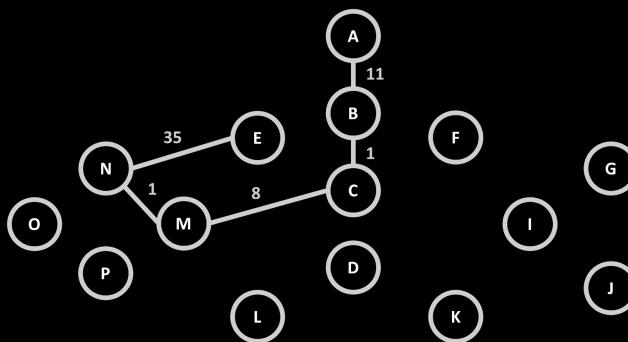
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

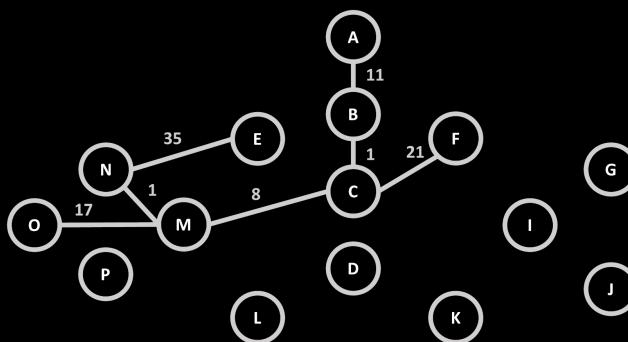
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

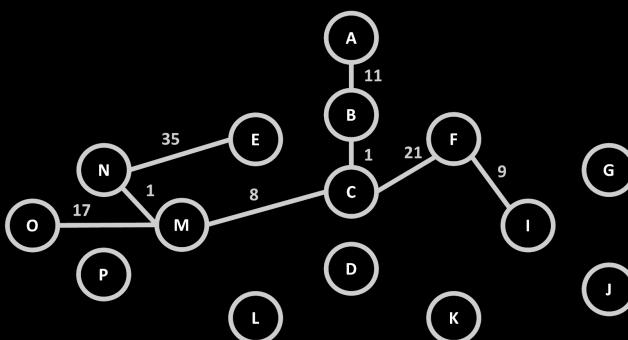
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

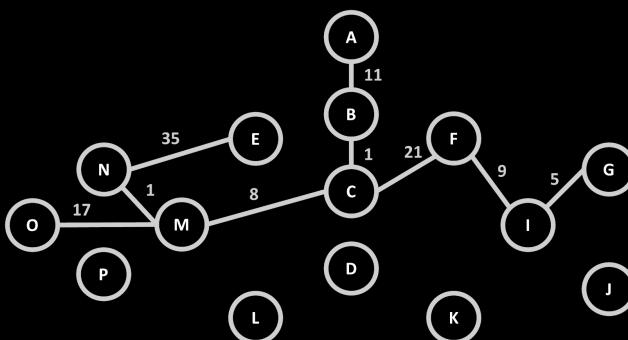
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

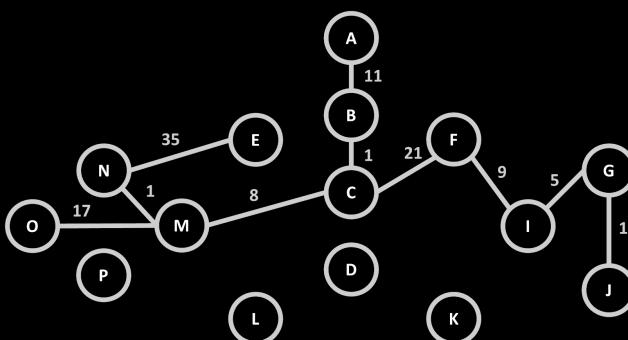
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
C , I	22
I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

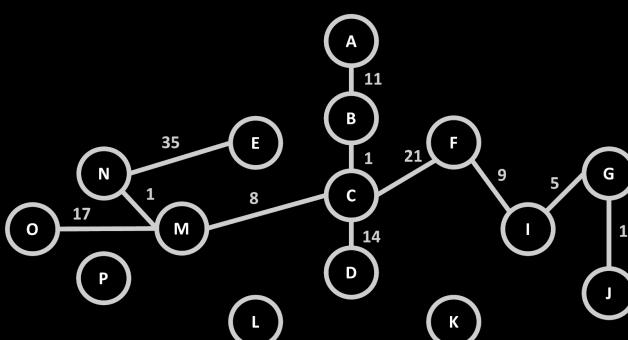
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
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EDGE	WEIGHT
C , I	22
I , J	27
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M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

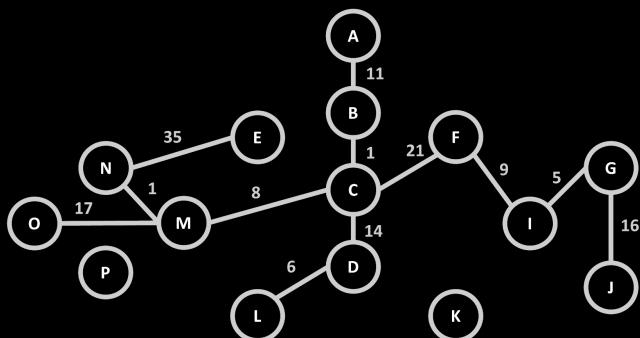
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
F , G	10
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
C , F	21

EDGE	WEIGHT
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I , J	27
J , K	32
E , N	35
M , P	40
B , E	42
N , O	50
L , P	51
O , P	52
L , M	60
B , E	85
B , F	90
I , K	99

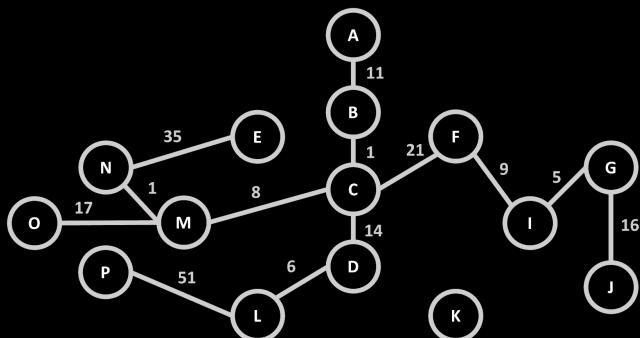
PRIMS METHOD



EDGE	WEIGHT
B , C	1
N , M	1
G , I	5
D , L	6
C , M	8
F , I	9
M , P	40
F , G	10
N , O	50
A , B	11
D , K	13
C , D	14
G , J	16
M , O	17
B , F	90
C , F	21
I , K	99

EDGE	WEIGHT
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N , M	1
I , J	27
G , I	5
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M , P	40
B , E	42
F , G	10
N , O	50
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O , P	52
L , M	60
B , E	85
M , O	17
B , F	90
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PRIMS METHOD



EDGE	WEIGHT
B , C	1
C , I	22
N , M	1
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D , K	13
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C , D	14
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