A true T is said to be spanning true of a connected graph G. if T is a subgraph of G1 and T contains all vertices of G1.

C a connected connected connected but cyclic spanning bree so Graph.

all vestices are not those so spanning true

a de spanning

En 2 a 1 b a 2 c Coraph

 $\begin{array}{c|c}
a_1 & b \\
4 & 2 \\
\hline
cost -> \\
1 & 5 \\
\end{array}$

Spanning bree

 $\begin{array}{c|c}
q & 1 \\
4 & 2 \\
0 & C
\end{array}$

cost = 4 + 1+2 mini spanning free

Minimum Spanning Iru A minimum spanning form or minimum weight spanning tree is a subset of the edges of 9 connected, edge-weight undirected graph that connects all vertices together. and with minimum possible total edge weight. Louin's Algarithm (used to mind minimum cast spanning)

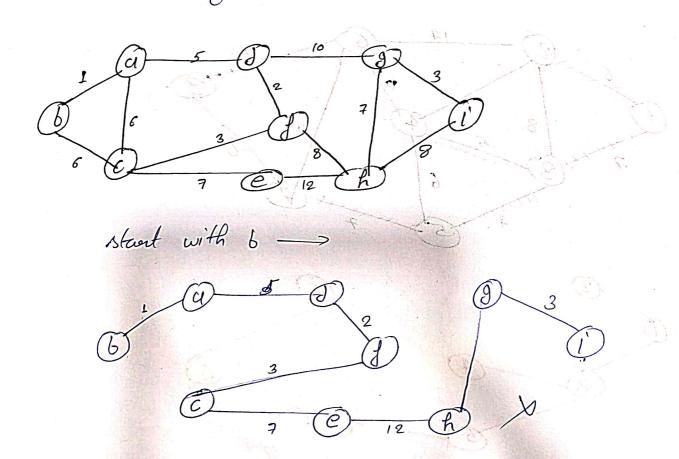
Developed in 1930 by Gzech mathematician Vojtech

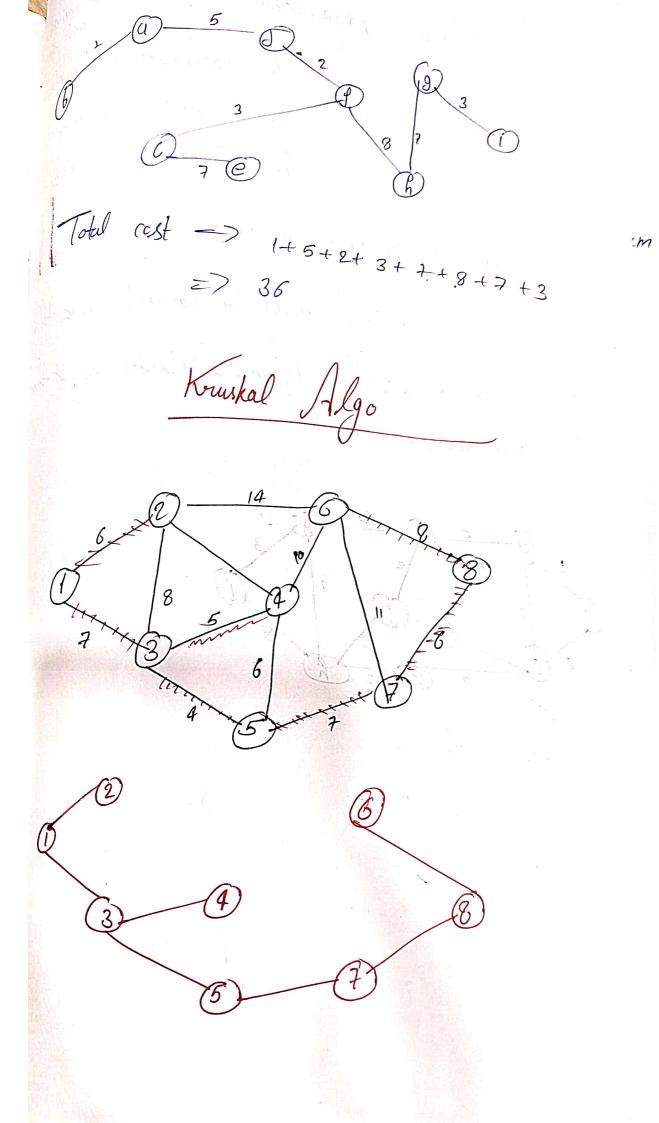
Jarnik. And later redis-covered and republished

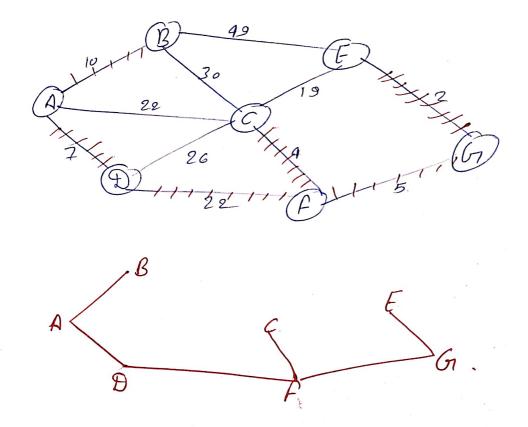
by computer scientists Robert C. Prim in 1957.

And Edsgur W. Dijkstsa in 1959.

-> It is also sometimes called the Joinik's algorithm,
Poum - Joinik algorithm, Poum - Dykstou algorithm
co DJP algo.







(1) Constand onin heap with e edges. Decke one by one edge and add in spanning (cycle should not be coented)

Best can (n-1) edges