Prim's algorithm It is a greedy algorethm that is my to that the minimum spanning true forces a graph prims algorithm finds the subsite of edges that includes every vertex of the graph such as that the sum of weights of the edges can be minimized. prims algorithm starts with thesery, node and explores all the adjacent nodes with all the connecting edges at every step. The edges with the minimal wing hts lausing no cycle in the graph gat silveted. how to world this algorithm? prims algorithm is a griedy algorithm that starts known one vertex and continue to ass the edges with the smallest way not while the goal es maches. The steps are -Einst to rentalize an MST with the randowly chousen vertex. eouvert the true in the above step with here working. From the edges Bound select the minimum edge and add it to the true. pepeat step 2 until minimum spanning true is turned.

apple cations is prims algorithm can be used in network dirightly. It can be used to make whom by eyels. (il) It can be used to lay down electricomplexity of 1.1 (6. ) primb agarethon A 70 90 9 M 3 1 Datas Eructure menem um e ge weight complexity 0 (1112) AdJacent matrix, linear, sear ching O (IEILOP AdJaconcyclent and kenary heap AdJacency list and forbonacce heap 0 (1E1) + 1 VI Log 1210) Algorithm too prims h

step 1 = Select a Storbing vertex

step 2 = Repeat steps 3 and y with

there are truinge vertices

step 3 = Select an edge le connecting

the true vertex and truinge

vertex that has minimum weight

step 4 = Add the selected edge the

vertex to the minimum spanning truet.

[END OF LOOP]

stap 5 = EXIT

Beim's Algosithim. 2 (4,6) The Minimum Cost Sharing Prin => 1+4+2+5+3 = 15.





