Task 1

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Here, we have to find the minimum spanning tree cost. First, the vertices are sorted in ascending order of cost. Then, we have to iterate through this life list of sorted vertices. For the two nodes in every connection, we find their parents. This is done by caving the function get Parents. That recursively finds the parent of the node. It the two parents are different, this means that they the two nodes can be joined as there is no fear of cycle. So, we set the porent of node 2 as parent 1 and parent of the node 2's parent as parent 1. Then, we append this vertice to the graph and add the cost to a totalcost variable. After the loop ends, the results this totalcost.

TOOK 2

Here, we have used the concept of fibonacci to recursinely get the result. We have also used the concept of caching to ensure farter evention. For every resultant number, after calculating the fibonacci, the result is Stored into a dictionary so that it didn't need to be calculated again.

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Torologo Colon

We have implemented the coin change algorithm here.

First, a table has been declared with you = number of coins, or denominations and column = target +1. Then we iterate through the matrix. For every calamo, we check if the coin is for the first row, if the coin is 1, simply set value of the columns to the numberings.

If not, set them to the auotient if of numbering/coin if it is divisible of hemise, it is intinity for all other rows, the columns are twent copies of the appear columns as long as numbering of column < coin.

Otherwise, it follows this formula: min (upper column, 1+ same row [column - coin]). The land box of the whole table is the number of coins needed to make up the target.

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