Task 1:

In the first task of OSU, I write a union function that unites two different sets.

Fore this I wase the find function to find the parent of each node and then marge them. Finally the setsize function returns the size of each set.

Tak 2:

Here we use knuskal's algorithm for mot.

First to sort the edges based on their cost

then union them given they don't create a

cycle. The union function is optimized by

reank

Task 3:

counting possible ways to climb staires is basically

Fibonacci series. we keep an arrang to stone

the value on the first visit. So that when

there is a respitition, we can just pull it

Task 4:

First I take an arrangy till the target value.

Then a loop runs to note how many steps are needed to neach each value. Calling the farget value index of the array will give the answer.