

### Task 1

I gave it for evaluation

### Task 2

Normal BFS algo.

Used a queue to keep track

### Task 3

DFS Algo.

Used a stack to keep track

### Task 4

Used DFS as cycle checker.

If found two nodes clashing.

### Task 5

For this I used BFS as a modified version.

## Task 6

I used an algo like this.  
when I find the first ~~dot~~ diamond  
I look the sides to find more.  
If I can find I take them.  
Not sure about this algorithm.  
But it is working.

Sorry for this explanation, I did not  
have enough time to write fairly.