Making of Gelbeeck Continued

Node Movement Part 4

In GameBoard Script

```
public class GameBoard : MonoBehaviour {
    private static int boardWidth = 28;
   private static int boardHeight = 36;
    public GameObject [,] board = new GameObject[boardWidth, boardHeight];
    // Use this for initialization
    void Start () {
        Object[] objects = GameObject.FindObjectsOfType(typeof(GameObject));
        /*FindObjectsofType will search the whole scene for any type of objects
        and place them in the Object[] array*/
        foreach(GameObject o in objects){//looping through only gameobjects
           Vector2 pos = o.transform.position; // using global position not local position.
           if(o.name != "PacMan"){
               board[(int)pos.x, (int)pos.y]=o; // add the gameObject to this position of the array
           }else{
                 Debug.Log{"Found PacMan at: "+pos}; //pointless
           }
                                                  In PacMan Script
private Node CurrentNode; //stores PacMan's current NodePosition.
    // Use this for initialization
    void Start () {
       Node node = GetNodeAtPosition(transform.localPosition);
        if(node != null){
           CurrentNode = node;
           Debug.Log(CurrentNode);
   }
Node GetNodeAtPosition (Vector2 pos){
       GameObject tile = GameObject.Find("Game:").GetComponent<GameBoard>().board[(int)pos.x,(int)pos.y];
        //Find the GameObject named "Game" in the scene and get it's GameBoard component,
       //pass a position into it's array then store it into tile
        if(tile != null){
           return tile.GetComponent<Node>();
           //return the Node Component
        return null;
   }
                                                       Part 2
Node CanMove(Vector2 d){
        Node moveToNode = null;
        for(int i = 0; i < CurrentNode.neighbours.Length;i++){</pre>
        //looping through each array element and checking if it's direction matches the direction
        //PacMan wants to go.
             if(CurrentNode.validDirections [i]==d){
                 moveToNode = CurrentNode.neighbours[i];
             }
    void MoveToNode(Vector2 d){
        Node moveToNode = CanMove(d);
        if(moveToNode != null){
```

```
transform.localPosition = moveToNode.transform.position;
CurrentNode = moveToNode;
}
```

Underneath every keypress, add the line MoveToNode(direction) to Make PacMan move to that Node.