] lame 200 test

-Cave Generation

-we need:

-2D matrix of integuers

- Di mentions of the matrix

- The random fill percentage

- a Seed CBig Prime number) (Maybe a Bank of seeds)

- Number of smooth iterations

- Check the file neighbor States

- the size of the border in matrix elements

~ Flood Rill to identify voons, return a tile list

- A Method that Get All

- A Matrixto see which tiles have been seen

- A wall minimum size

- A min room 512e

- A ROOM Class - words itiles

- connected vooms; Rooms

- Edgetiles: (L15120002 57)

- conect Rooms method

- 15 conected method - create Passage method STE PS

- till the map randomly

- optional. (Debug function).

- Fill the borders as walls

- Smooth the map with cellular automata

- count each tile neighboor

- 4-5 rule -wall

-1ess-f1001

~ I dentify all the created wall regard with t1005 till

- if the region is too small, we Lelet It

- Identify all the rooms regions

- store the Sulviuing rooms

- USINg the edgetiles calculate and conect all the rooms to their closest one.

- iterate on til twe nave just one Roem

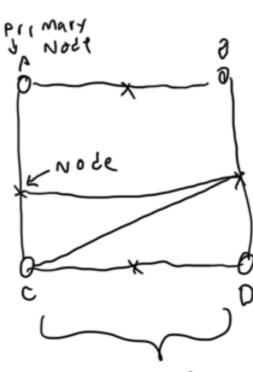
- Get the NEST of coordinates - May room size

- Convert to Mesh -By Marching Squares We need:

~ A base no Le structure - Position

- Index

- A control Node structure inherits tron note



Square O r

BINACY AB CO 0022 - 35

- Active Flag (boot) cell- Horizontal No de Conection -Pos : Parent > Pos + Vector > Right x Size/z - Vertical Node Co nection -posi Parent > postvector. forward x Size/2

- A cube or square class - Contains all control nodes -al subnoces or noces (see the picture)

_ A grid class - 20 matrix of Square Nodes -The map data

- A mesh Generator class - Y 3219

- A generate mesh method

- A method that converts to mesh from the points

- Atriansic saructure

- vertex A,B, C

- A dictiorary of triangles list

-Amethod that checks if the triangle is an edge

- A method that gets the number of the concetions or index

- A (154 of lists to save outlings

- A method to calculate Meshouthnes

- Creating the prefab

-A clas containing the case generator and the mesh Generator class

- A method to generate the prefab, receiving all the properties needed for the generation

- Crenerate the map Data

-Crenerate McSh Data

- Create Cave container

- create care walls object

- Add mesh component

-create rave Shape object

- Create ground object [riano)

- AZZ áson fainer as parent

- Add Cave Data Component and set to container