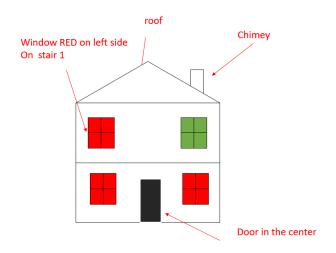
C2-S1 HOUSE GAME



NOTATION

To make the code more readable, we omit the constructor, so this code:

```
class Windows {
  color: String;
  stair : number;
  side : string; // "LEFT" or "Right"
}
```

Is actually the following one (including the constructor with color, stair, side as parameters)

```
class Windows {
   color: string;
   stair : number;
   side : string; // "LEFT" or "Right"

   constructor (color:string, stair: number, side:string) {
      this.color = color;
      this.stair = stair;
      this.side = side;
   }
}
```

```
class House {
   stairsNumber : number;
   hasRoof : boolean;
}

OBECTS

let myHouse = new House();
myHouse.stairsNumber = 3;
myHouse.hasRoof = true;
```

Draw on paper how the house(s) should look like, given this code

class House { stairsNumber : number; hasRoof : boolean = false; } OBECTS let myHouse = new House(); myHouse.stairsNumber = 2;

```
class House {
   stairsNumber : number = 2;
   hasRoof : boolean = true;
   windows : Windows[]
}
class Windows {
   color: String;
   stair : number;
   side : string; // "LEFT" or "Right"
}

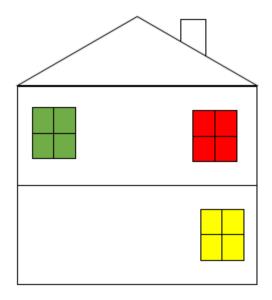
OBECTS
let w1 = new Windows("BLUE", 0, "LEFT");
let w2 = new Windows("RED", 1, "RIGHT");
let w3 = new Windows("BLUE", 1, "LEFT");

let myHouse = new House();
myHouse.windows = [w1, w2, w3];
```

Write the code to instantiate object to create a house like the below draw

CLASSES

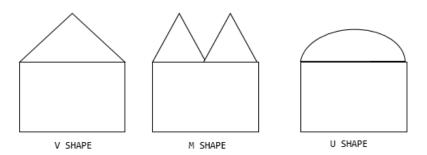
```
class House {
   stairsNumber : number = 2;
   hasRoof : boolean = true;
   windows : Windows[]
}
class Windows {
   color: String;
   stair : number;
   side : string; // "LEFT" or "Right"
}
contructor
```



```
CLASSES
class House {
  stairsNumber : number = 2;
  hasRoof : boolean = true;
  windows : Windows[]
class Windows {
  color: String;
 stair : number;
side : string; // "LEFT" or "Right"
OBECTS
 let w1 = new Windows("GREEN", 0, "LEFT");
let w2 = new Windows("RED", 1, "LEFT");
let w3 = new Windows("BLUE", 1, "LEFT");
 let house1 = new House();
 house1.windows = [w3];
 house1.hasRoof = false;
 let house2 = new House();
 house2.windows = [w1, w2];
```

Now we define 3 kind of roofs, defined by their type (string)

ROOF TYPES



Draw on paper how the house(s) should look like, given this code

CLASSES

```
class House {
   stairsNumber : number = 2;
   roof : Roof;
   windows : Windows[]
}

class Windows {
   color: String;
   stair : number;
   side : string; // "LEFT" or "Right"
}

class Roof {
   // "V SHAPE" or "M SHAPE" or "U SHAPE"
   style: String;
   hasChimney : boolean ;
}
```

OBECTS

```
let w1 = new Windows("BLUE", 1, "LEFT");
let myRoof = new Roof("M SHAPE" , true);
let myHouse = new House();
myHouse.windows = [w1];
myHouse.roof = myRoof;
```

```
CLASSES
class House {
                                            contructor
 stairsNumber : number;
 roof : Roof;
 windows : Windows[]
 mainDoor : Door
}
class Windows {
 color: String;
                                            contructor
 stair : number;
 side : string; // "LEFT" or "Right"
}
class Roof {
// "V SHAPE" or "M SHAPE" or "U SHAPE"

    contructor

 style: String;
 hasChimney : boolean = true;
}
class Door {
 // ""LEFT" or "Right" or "CENTER"

    contructor

   position: String;
}
```

```
let w1 = new Windows("BLUE", 1, "LEFT");
let w2 = new Windows("BLUE", 1, "RIGHT");

let myHouse = new House();

let myRoof = new Roof("U SHAPE");
let myDoor = new Door("LEFT");

myHouse.roof = myRoof;
myHouse.windows = [w1, w2];
myHouse.door = myDoor;
```

Write the code to instantiate object to create a house like the below draw

```
CLASSES
class House {
                                           _ contructor
 stairsNumber : number;
 roof : Roof;
 windows : Windows[]
 mainDoor : Door
}
class Windows {
 color: String;
                                            contructor
 stair : number;
 side : string; // "LEFT" or "Right"
}
class Roof {
// "V SHAPE" or "M SHAPE" or "U SHAPE"

    contructor

 style: String;
 hasChimney : boolean = true;
}
class Door {
 // ""LEFT" or "Right" or "CENTER"

    contructor

   position: String;
}
```

