

Assignment 3 MEMO

```
public static void showAll(MyArrayList b[])
{
    for (int i = 0; i<4; i++)
        System.out.println(b[i]);
}
```

```
public static boolean checkWin(MyArrayList b[])
{
    boolean win=true;
    for (int i = 0; i<4; i++)
    {
        if(!b[i].isAllGuessed())
            win=false;
    }
    return win;
}
```

```
public static void main(String args[])
{
    Scanner in = new Scanner(System.in);
    Random ran = new Random();
    MyArrayList blocks[] = new MyArrayList[4];
    blocks[0] = new MyArrayList<Card>();
    blocks[1] = new MyArrayList<Card>();
    blocks[2] = new MyArrayList<Card>();
    blocks[3] = new MyArrayList<Card>();
    int r1,c1,r2,c2;
    for(int i=0;i<4;++i)
    {
        while(!blocks[i].isFull())
        {
            int val=ran.nextInt(8)+1;
            int count=0;
            for(int i2=0;i2<4;++i2)
            {
                count = count + blocks[i2].getCount(val);
                System.out.println("Value:" + val + " Count:" + count);
            }
            if(count<2)
                blocks[i].add(blocks[i].getSize(),new Card(val));
        }
    }
    showAll(blocks);
    while (!checkWin(blocks))
    {
        System.out.println("Enter first value row number: ");
        r1 = in.nextInt();
        System.out.println("Enter first value Column number: ");
        c1 = in.nextInt();
        if(r1>=0&&r1<4&&c1>=0&&c1<4)
        {
            Card hold = (Card)blocks[r1].get(c1);
            if(!hold.isGuessed())
            {
                hold.setGuessed(true);
                showAll(blocks);
                System.out.println("Enter second value row number: ");
                r2 = in.nextInt();
                System.out.println("Enter second value Column number: ");
                c2 = in.nextInt();
                if(r2>=0&&r2<4&&c2>=0&&c2<4)
                {

```

```

Card hold2 = (Card)blocks[r2].get(c2);
if(!hold2.isGuessed())
{
    hold2.setGuessed(true);
    showAll(blocks);
    if(((Card)blocks[r1].get(c1)).equals((Card)blocks[r2].get(c2)))
        System.out.println("Good Guess!! ");
    else
    {
        System.out.println("Oeps!! ");
        hold.setGuessed(false);
        hold2.setGuessed(false);
    }
}
else
{
    System.out.println("Second value already guessed: ");
    hold.setGuessed(false);
}
}
else System.out.println("Second values entered not valid! ");
}
else System.out.println("First value already guessed: ");
}
else System.out.println("First values entered not valid! ");
}
}
System.out.println("Winner!!!!");
}
}

```