<https://github.com/mkesselheim/Clutch-hitting-code.git>

int ledPin[] = {4,5,6,7,8,9,10};

void setup()

{

pinMode(11,OUTPUT);

pinMode(12,OUTPUT);

Serial.begin(9600);

randomSeed(analogRead(0));

for(int i = 0; i <=6; i++){

pinMode(ledPin[i],OUTPUT);

}

int totalTrials = 100;

int lessEqual = 0;

for(int i = 1; i <= totalTrials-1; i++){

int totalHits = hitOrNo(69); //Number of postseason At-Bats

Serial.println(totalHits);

if (totalHits >= 22){ //Number of Postseason Hits

lessEqual++;

digitalWrite(11, HIGH);

delay(200);

digitalWrite(11, LOW);

}else{

digitalWrite(12, HIGH);

delay(200);

digitalWrite(12, LOW);

}

}

Serial.print("The P-Value is: ");

Serial.println(lessEqual);

displayBinary(lessEqual);

}

int hitOrNo(int numABs){

int hits = 0;

for (int i = 1; i < numABs; i++){

int atBat = random (0,1000);

if(atBat <= 311){ //Regular Season Batting Average \* 1000

hits ++;

}

}

return hits;

}

void displayBinary(int numToShow){

for(int i = 0; i <=6; i++){

if(bitRead(numToShow, i) == 1){

digitalWrite(ledPin[i], HIGH);

}else{

digitalWrite(ledPin[i], LOW);

}

}

}

void loop(){}