Mid-Term Programming Test-Version A

int BASE = 2;int NUM = 6; int times = 5;int greenLED =12; int redLED =11; int timesBlinked;// the setup function runs once when you press reset or power the boardvoid setup() { {pinMode(redled, OUTPUT); pinMode(greenled, OUTPUT);pinMode(i, OUTPUT); //set port ‘i’ as an output port } Serial.begin(9600);}// the loop function runs over and over again forevervoid loop() { for (int i = BASE; i < BASE + NUM; i ++) int timesBlinked = blink(4,LED\_BUILTIN); Serial.print("The LED was SUPPOSED to blink "); Serial.print(times); Serial.print(" times BUT only blinked "); Serial.println(timesBlinked); delay(1000);}// a new procedure defined by you to blink the LEDint blink(int value,int led) {{ digitalWrite(greenled, HIGH); // turn on green LED delay(1000); // wait 5 seconds digitalWrite(greenled, LOW); // turn off green LED for(int i=0;i<3;i++) // blinks for 3 timesdelay(500); // wait 0.5 second digitalWrite(redled, HIGH);// turn on red LED delay(1000); // wait 5 second digitalWrite(redled, LOW);// turn off red LEDdelay(500)} // wait for a second } Serial.print("The LED blinked "); Serial.print(times); Serial.println(" times."); return times;}