EXCEED 14 ARDWARE

Sexy Pair

```
int i = 2;
void setup() {
   Serial.begin(9600);
}
```

```
boolean isPrime(int i){

if(i<= 1)

return false;

for(int j=2;j<i;j++)

if(i%j==0)

return false;

return true;
```

```
void loop() {
 boolean check = true;
 while(check){
  if(isPrime(i) && isPrime(i+6)){
   Serial.print("("); Serial.print(i);
   Serial.print(","); Serial.print(i+6);
   Serial.println(")"); check = false; }
  |++; }
 delay(1000); }
```

Lecturer cost (1)

Lecturer cost (2)

```
 \begin{array}{lll} & & & & & & & \\ & & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &
```

Traffic light

```
#define bluePin 11
#define yellowPin 12
#define redPin 13
#define switchPin 8
#define buzzerPin 7
boolean status = false; //false แดง true ฟ้า
boolean isPress(){
return digitalRead(switchPin);
```

```
void setup() {
  pinMode(bluePin,OUTPUT);
  pinMode(yellowPin,OUTPUT);
  pinMode(redPin,OUTPUT);
  pinMode(switchPin,INPUT);
  pinMode(buzzerPin,OUTPUT);
}
```

Traffic light (cons.)

```
void loop() {
                                                           digitalWrite(redPin,HIGH);
 digitalWrite(buzzerPin,HIGH);
                                                          }else{
                                                           digitalWrite(buzzerPin,HIGH);
if(!isPress()){
  if(status){
                                                           digitalWrite(redPin,LOW);
   digitalWrite(buzzerPin,LOW);
                                                           digitalWrite(bluePin,HIGH);
   digitalWrite(bluePin,LOW);
   digitalWrite(yellowPin,HIGH);
                                                          status = !status;
   delay(1000);
                                                          delay(500);
   digitalWrite(yellowPin,LOW);
```

Ultrasonic Sensor

```
#define trigPin 11

#define echoPin 12

void setup() {
        Serial.begin(9600);
        pinMode(trigPin,OUTPUT);
        pinMode(echoPin,INPUT);
}
```

void loop(){

```
Long duration, distance;
digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);
duration = pulseln(echoPin, HIGH);
distance = (duration/2) / 29.1;
Serial.println(distance);
delay(50);
```