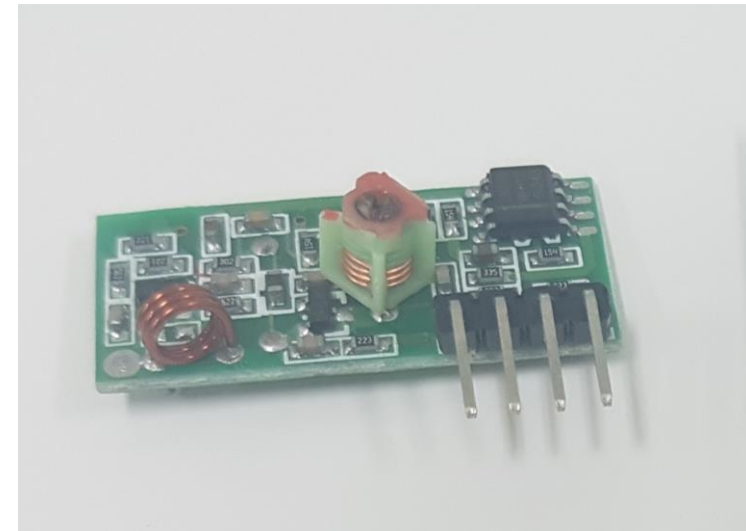
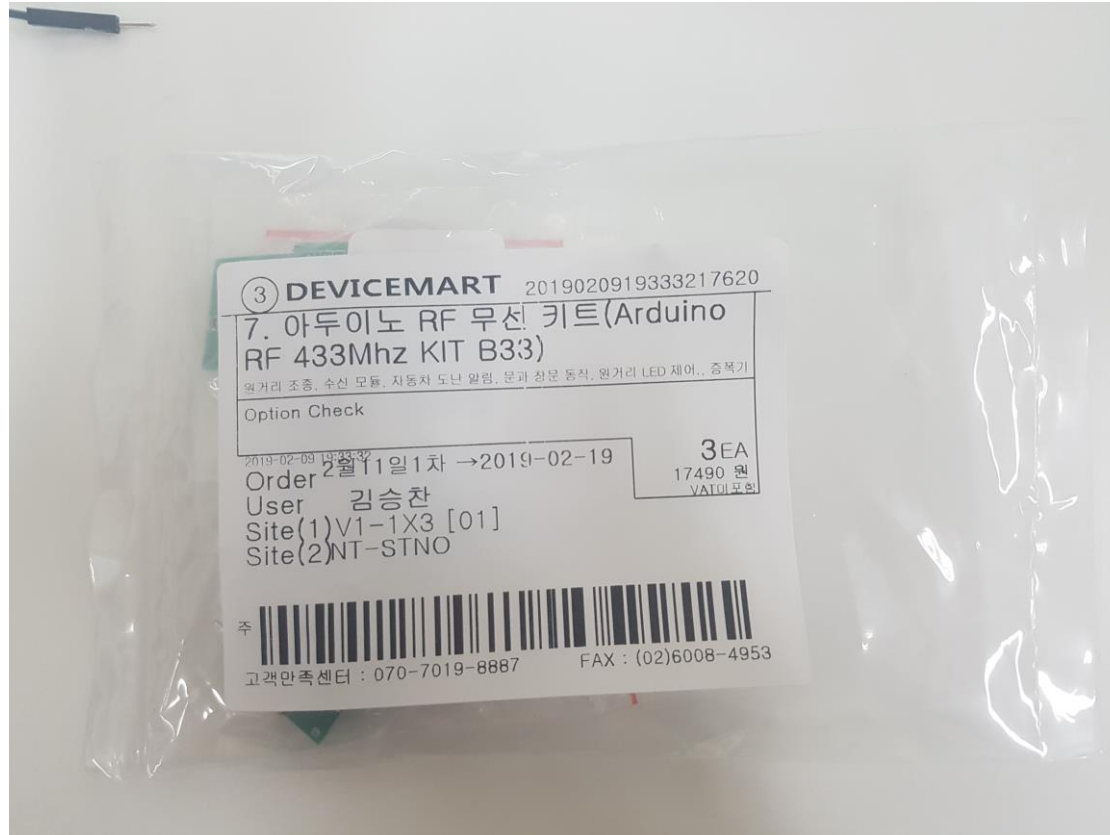


# RF 433Mhz 무선 통신

무선 리모콘 이용

# RF 433MHz Receiver

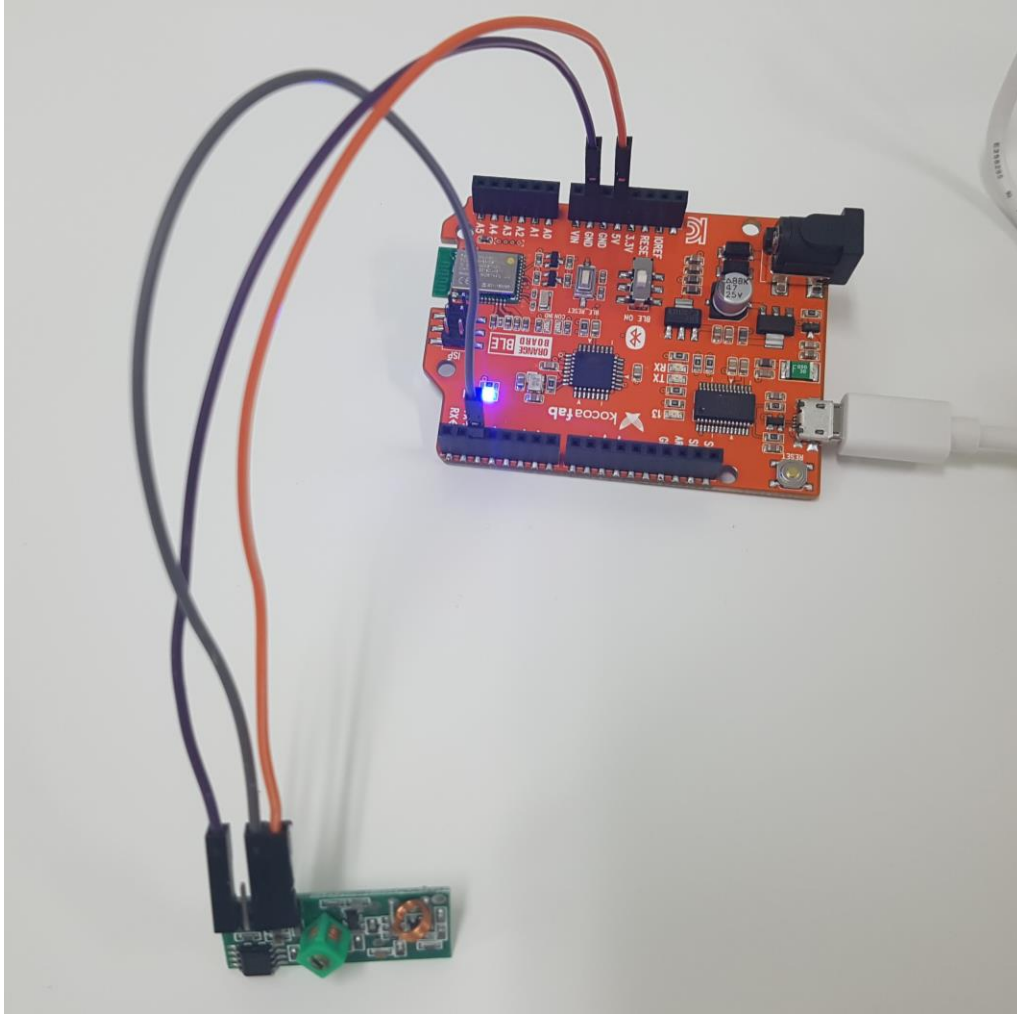


<http://www.devicemart.co.kr/goods/view?no=1278893>

# 무선리모콘RC01



# 회로 연결



GND	GND
DATA	2
DATA	
VCC	5V

# 코드

```
#include <RCSwitch.h>

RCSwitch mySwitch = RCSwitch();

void setup() {
  Serial.begin(9600);
  mySwitch.enableReceive(0); // Receiver on interrupt 0 => that is pin #2
}

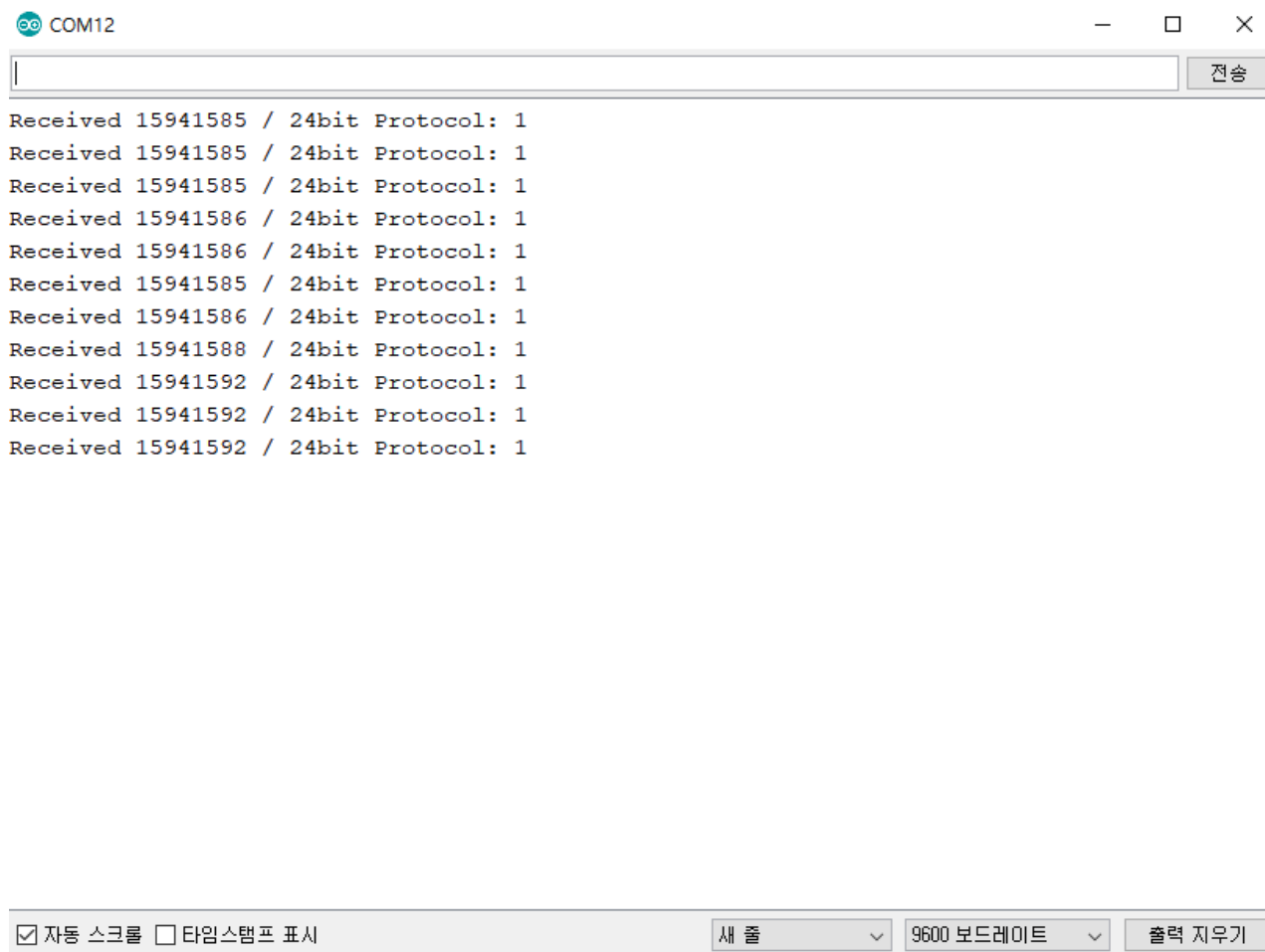
void loop() {
  if (mySwitch.available()) {

    Serial.print("Received ");
    Serial.print( mySwitch.getReceivedValue() );
    Serial.print(" / ");
    Serial.print( mySwitch.getReceivedBitlength() );
    Serial.print("bit ");
    Serial.print("Protocol: ");
    Serial.println( mySwitch.getReceivedProtocol() );

    mySwitch.resetAvailable();
  }
}
```

<https://github.com/sui77/rc-switch>

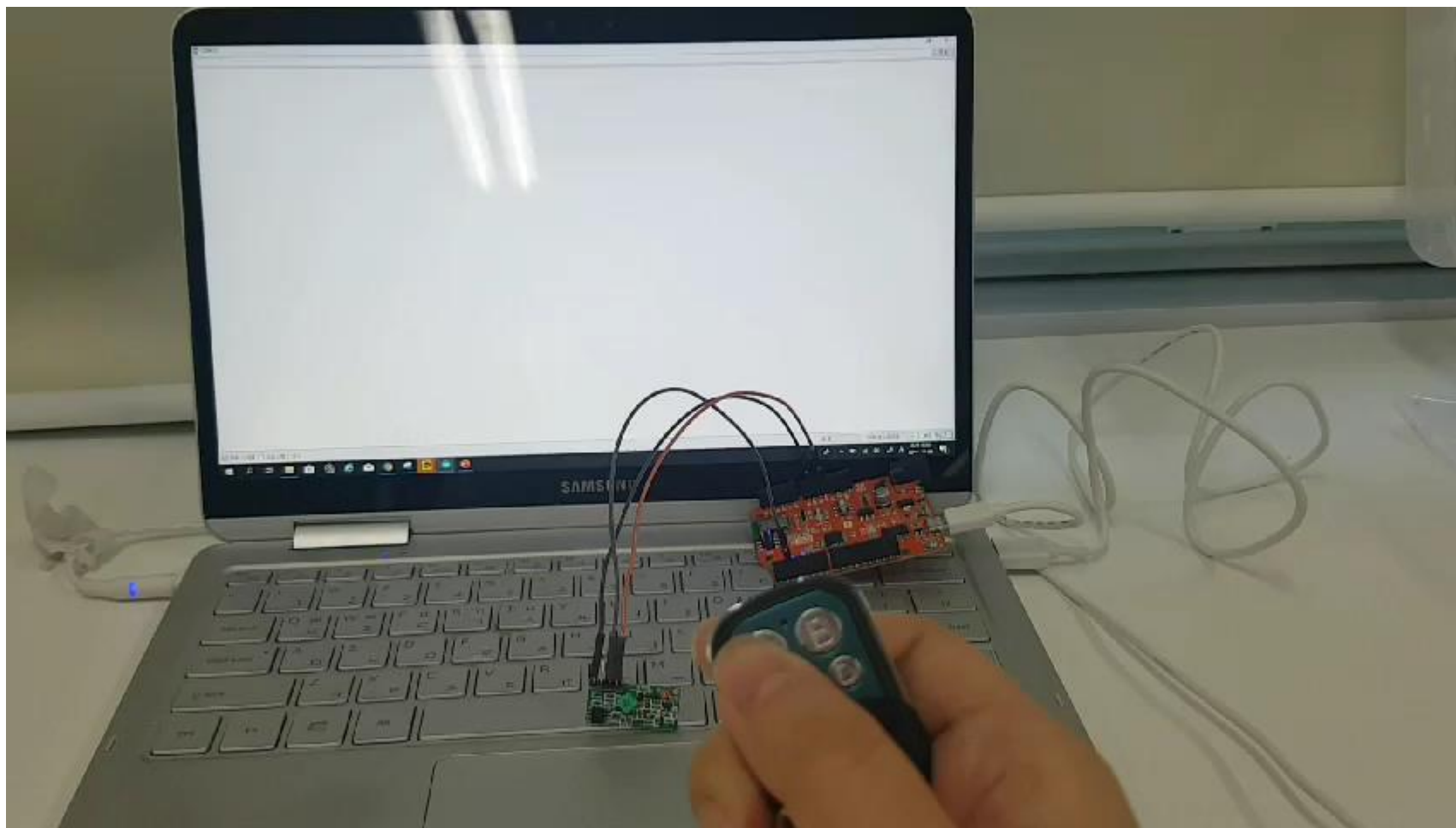
# 출력결과



```
COM12
Received 15941585 / 24bit Protocol: 1
Received 15941585 / 24bit Protocol: 1
Received 15941585 / 24bit Protocol: 1
Received 15941586 / 24bit Protocol: 1
Received 15941586 / 24bit Protocol: 1
Received 15941585 / 24bit Protocol: 1
Received 15941586 / 24bit Protocol: 1
Received 15941588 / 24bit Protocol: 1
Received 15941592 / 24bit Protocol: 1
Received 15941592 / 24bit Protocol: 1
Received 15941592 / 24bit Protocol: 1
```

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# 출력결과



# 코드수정1차

```
void setup() {
  Serial.begin(9600);
  mySwitch.enableReceive(0);  //
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop() {
  if (mySwitch.available()) {
    unsigned long aa = mySwitch.getReceivedValue();

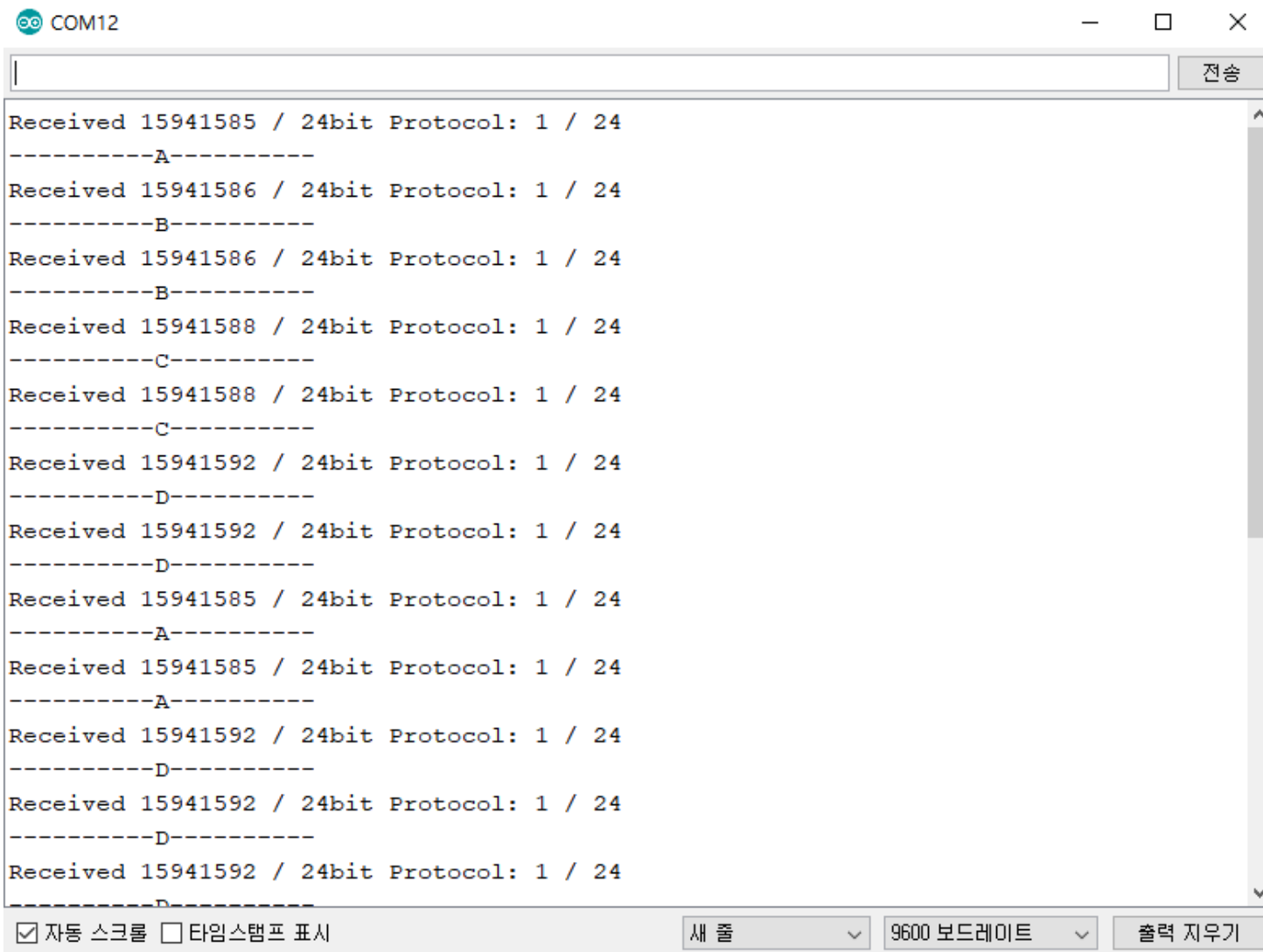
    Serial.print("Received ");
    Serial.print(aa );
    Serial.print(" / ");
    Serial.print( mySwitch.getReceivedBitlength() );
    Serial.print("bit ");
    Serial.print("Protocol: ");
    Serial.print( mySwitch.getReceivedProtocol() );
    Serial.print(" / ");
    Serial.println(mySwitch.getReceivedBitlength());
  }
}
```

```
if(aa==15941585)//16337
{
  Serial.println("-----A-----");
  digitalWrite(LED_BUILTIN, HIGH);
}
else if(aa==15941586)//16337
{
  Serial.println("-----B-----");
  digitalWrite(LED_BUILTIN, LOW);
}
else if(aa==15941588)//16337
{
  Serial.println("-----C-----");
}
else if(aa==15941592)//16337
{
  Serial.println("-----D-----");
}
mySwitch.resetAvailable();
}
```

---



# 출력결과



```
Received 15941585 / 24bit Protocol: 1 / 24
-----A-----
Received 15941586 / 24bit Protocol: 1 / 24
-----B-----
Received 15941586 / 24bit Protocol: 1 / 24
-----B-----
Received 15941588 / 24bit Protocol: 1 / 24
-----C-----
Received 15941588 / 24bit Protocol: 1 / 24
-----C-----
Received 15941592 / 24bit Protocol: 1 / 24
-----D-----
Received 15941592 / 24bit Protocol: 1 / 24
-----D-----
Received 15941585 / 24bit Protocol: 1 / 24
-----A-----
Received 15941585 / 24bit Protocol: 1 / 24
-----A-----
Received 15941592 / 24bit Protocol: 1 / 24
-----D-----
Received 15941592 / 24bit Protocol: 1 / 24
-----D-----
Received 15941592 / 24bit Protocol: 1 / 24
-----D-----
```

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# 출력결과

