

```
int a = 5;
```

```
int b = 7;
```

```
int c = 9;
```

```
int d = 11;
```

```
int e = 12;
```

```
int f = 6;
```

```
int g = 8;
```

```
int p = 10;
```

```
int d4 = 4;
```

```
int d3 = 3;
```

```
int d2 = 2;
```

```
int d1 = 1;
```

```
int startStopReset = 13;
```

```
long n = 0;
```

```
int x = 100;
```

```
int del = 55;
```

```
int currState = 0;
```

```
void setup()
```

```
{
```

```
  pinMode(d1, OUTPUT);
```

```
  pinMode(d2, OUTPUT);
```

```
pinMode(a, OUTPUT);  
  
pinMode(b, OUTPUT);  
  
pinMode(c, OUTPUT);  
  
pinMode(d, OUTPUT);  
  
pinMode(e, OUTPUT);  
  
pinMode(f, OUTPUT);  
  
pinMode(g, OUTPUT);  
  
pinMode(p, OUTPUT);  
  
pinMode(startStopReset, INPUT);  
digitalWrite(startStopReset, HIGH);  
  
}  
  
void loop()  
{  
  
int swButtonState = digitalRead(startStopReset);  
  
if(swButtonState == LOW) {  
    currState++;  
    while (digitalRead(startStopReset) == LOW) {}  
}  
  
clearLEDs();  
pickDigit(1);
```



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```
clearLEDs();
```

```
pickDigit(2);
```

```
pickNumber((n/x/100)%10);
```

```
delayMicroseconds(del);
```

```
clearLEDs();
```

```
pickDigit(3);
```

```
dispDec(3);
```

```
pickNumber((n/x/10)%10);
```

```
delayMicroseconds(del);
```

```
clearLEDs();
```

```
pickDigit(4);
```

```
pickNumber(n/x%10);
```

```
delayMicroseconds(del);
```

```
if ((currstate%3) == 0)
```

```
  n=0;
```

```
  else if ((currstate%3) == 1)
```

```
    n++;
```

```
  else
```

```
    {}
```

```
  }
```



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```
switch (p)
{
    case 1:
        digitalWrite(d1, LOW);
        break;
    case 2:
        digitalWrite(d2, LOW);
        break;
    case 3:
        digitalWrite(d3, LOW);
        digitalWrite(p, HIGH);
        break;
    default:
        digitalWrite(d4, LOW);
        break;
}
}
```

```
void pickNumber(int x)
{
    switch(x)
    {
        default:
            zero();
            break;
    case 1:
        one();
```

```
two();  
  
break;  
  
case 3:  
  
three();  
  
break;  
  
case 4:  
  
four();  
  
break;  
  
case 5:  
  
five();  
  
break;  
  
case 6:  
  
six();  
  
break;  
  
case 7:  
  
seven();  
  
break;  
  
case 8:  
  
eight();  
  
break;  
  
case 9:  
  
nine();  
  
break;  
  
}  
  
}
```

```
digitalWrite(p, LOW);  
}
```

```
void clearLEDs()  
{  
digitalWrite(a, LOW);  
digitalWrite(b, LOW);  
digitalWrite(c, LOW);  
digitalWrite(d, LOW);  
digitalWrite(e, LOW);  
digitalWrite(f, LOW);  
digitalWrite(g, LOW);  
digitalWrite(p, LOW);  
}
```

```
void zero()  
{  
digitalWrite(a, HIGH);  
digitalWrite(b, HIGH);  
digitalWrite(c, HIGH);  
digitalWrite(d, HIGH);  
digitalWrite(e, HIGH);  
digitalWrite(f, HIGH);  
digitalWrite(g, LOW);  
}
```



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```
digitalWrite(a, LOW);  
  
digitalWrite(b, HIGH);  
  
digitalWrite(c, HIGH);  
  
digitalWrite(d, LOW);  
  
digitalWrite(e, LOW);  
  
digitalWrite(f, LOW);  
  
digitalWrite(g, LOW);  
  
}
```

```
void two()  
{  
  
digitalWrite(a, HIGH);  
  
digitalWrite(b, HIGH);  
  
digitalWrite(c, LOW);  
  
digitalWrite(d, HIGH);  
  
digitalWrite(e, HIGH);  
  
digitalWrite(f, LOW);  
  
digitalWrite(g, HIGH);  
  
}
```

```
void three()  
{  
  
digitalWrite(a, HIGH);  
  
digitalWrite(b, HIGH);  
  
digitalWrite(c, HIGH);  
  
digitalWrite(d, HIGH);  
  
}
```

```
digitalWrite(g, HIGH);  
}
```

```
void four()  
{  
  digitalWrite(a, LOW);  
  digitalWrite(b, HIGH);  
  digitalWrite(c, HIGH);  
  digitalWrite(d, LOW);  
  digitalWrite(e, LOW);  
  digitalWrite(f, HIGH);  
  digitalWrite(g, HIGH);  
}
```

```
void five()  
{  
  digitalWrite(a, HIGH);  
  digitalWrite(b, LOW);  
  digitalWrite(c, HIGH);  
  digitalWrite(d, HIGH);  
  digitalWrite(e, LOW);  
  digitalWrite(f, HIGH);  
  digitalWrite(g, HIGH);  
}
```

```
void six()
```



```
digitalWrite(b, LOW);  
  
digitalWrite(c, HIGH);  
  
digitalWrite(d, HIGH);  
  
digitalWrite(e, HIGH);  
  
digitalWrite(f, HIGH);  
  
digitalWrite(g, HIGH);  
  
}
```

```
void seven()  
{  
  
digitalWrite(a, HIGH);  
  
digitalWrite(b, HIGH);  
  
digitalWrite(c, HIGH);  
  
digitalWrite(d, LOW);  
  
digitalWrite(e, LOW);  
  
digitalWrite(f, LOW);  
  
digitalWrite(g, LOW);  
  
}
```

```
void eight()  
{  
  
digitalWrite(a, HIGH);  
  
digitalWrite(b, HIGH);  
  
digitalWrite(c, HIGH);  
  
digitalWrite(d, HIGH);  
  
digitalWrite(e, HIGH);  
  
}
```



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```
}
```

```
void nine()
```

```
{
```

```
digitalWrite(a, HIGH);
```

```
digitalWrite(b, HIGH);
```

```
digitalWrite(c, HIGH);
```

```
digitalWrite(d, HIGH);
```

```
digitalWrite(e, LOW);
```

```
digitalWrite(f, HIGH);
```

```
digitalWrite(g, HIGH);
```

```
}
```