

#문제 1번

```
sum_function <-function(x){
  a<-c()
  b<-c()
  for(i in 1:x){
    if(i%%2==0){
      a[i%%2]<-i
    }else{
      b[(i%%2)+1]<-i
    }
  }
  sprintf("홀수의 합=%d, 짝수의 합=%d",sum(b),sum(a))
}
코드 : sum_function(10)
```

```
> sum_function <-function(x){
+   a<-c()
+   b<-c()
+   for(i in 1:x){
+     if(i%%2==0){
+       a[i%%2]<-i
+     }else{
+       b[(i%%2)+1]<-i
+     }
+   }
+   sprintf("홀수의 합=%d, 짝수의 합=%d",sum(b),sum(a))
+ }
> sum_function(10)
결과 : [1] "홀수의 합=25, 짝수의 합=30"
```

#문제 2번

```
a<-rep(0,100)
for(i in 1:100){
  if(i%%3==0){
    a[i]<- 'Fizz'
  }else if(i%%5==0){
    a[i]<- 'Buzz'
  }else{
    a[i]<-i
  }
  if(i%%15==0){
    a[i]<- 'FizzBuzz'
  }
}
코드 : print(a)
```

결과 :

```
> a<-rep(0,100)
> for(i in 1:100){
+   if(i%%3==0){
+     a[i]<- 'Fizz'
+   }else if(i%%5==0){
+     a[i]<- 'Buzz'
+   }else{
+     a[i]<-i
+   }
+   if(i%%15==0){
+     a[i]<- 'FizzBuzz'
+   }
+ }
> print(a)
[1] "1"      "2"      "Fizz"   "4"      "Buzz"   "Fizz"   "7"      "8"      "Fizz"   "Buzz"   "11"     "Fizz"   "13"
[14] "14"     "FizzBuzz" "16"     "17"     "Fizz"   "19"     "Buzz"   "Fizz"   "22"     "23"     "Fizz"   "Buzz"   "26"
[27] "Fizz"   "28"     "29"     "FizzBuzz" "31"     "32"     "Fizz"   "34"     "Buzz"   "37"     "38"     "Fizz"
[40] "Buzz"   "41"     "Fizz"   "43"     "44"     "FizzBuzz" "46"     "47"     "Fizz"   "49"     "Buzz"   "Fizz"   "52"
[53] "53"     "Fizz"   "Buzz"   "56"     "Fizz"   "58"     "59"     "FizzBuzz" "61"     "62"     "Fizz"   "Buzz"
[66] "Fizz"   "67"     "68"     "Fizz"   "Buzz"   "71"     "Fizz"   "73"     "74"     "FizzBuzz" "76"     "77"     "Fizz"
[79] "79"     "Buzz"   "Fizz"   "82"     "83"     "Fizz"   "Buzz"   "86"     "Fizz"   "88"     "89"     "FizzBuzz" "91"
[92] "92"     "Fizz"   "94"     "Buzz"   "Fizz"   "97"     "98"     "Fizz"   "Buzz"
```

#문제 3번

```

Q3<-function(x){
  y<-as.character(x)
  z<-strsplit(y,'')
  a<-unlist(z)
  b<-length(a)
  print(b)
}

```

코드 : Q3(12355)

```

> Q3<-function(x){
+   y<-as.character(x)
+   z<-strsplit(y,'')
+   a<-unlist(z)
+   b<-length(a)
+   print(b)
+ }
> Q3(12355)

```

결과 : [1] 5

#문제 4번

```

Q4<-function(x){
  y<-as.character(x)
  z<-strsplit(y,'')
  a<-unlist(z)
  c<-length(a)
  d<-1
  b<-rep(0,c)
  for(d in 1:c){
    a<-x%/%10
    b[d]<-x%%10
    x<-a
    d<=d+1
  }
  e<-sum(b)
  print(e)
}

```

코드 : Q4(1234)

```

> Q4<-function(x){
+   y<-as.character(x)
+   z<-strsplit(y,'')
+   a<-unlist(z)
+   c<-length(a)
+   d<-1
+   b<-rep(0,c)
+   for(d in 1:c){
+     a<-x%/%10
+     b[d]<-x%%10
+     x<-a
+     d<=d+1
+   }
+   e<-sum(b)
+   print(e)
+ }
> Q4(1234)

```

결과 : [1] 10

#문제 5번

```

Q5<-function(x){
  i<-1
  b<-rep(0,sum(1:x))
  while(i<=x){
    for(a in 1:i){
      a<-i
      c<-rep(a,a)
    }
    if(a==1){
      b[1]<-c
    }else{
      b[(sum(1:(a-1))+1):(sum(1:(a-1))+i)]<-c
    }
    i=i+1
  }
  print(b)
}

```

코드 : Q5(7)

```

> Q5<-function(x){
+   i<-1
+   b<-rep(0,sum(1:x))
+   while(i<=x){
+     for(a in 1:i){
+       a<-i
+       c<-rep(a,a)
+     }
+     if(a==1){
+       b[1]<-c
+     }else{
+       b[(sum(1:(a-1))+1):(sum(1:(a-1))+i)]<-c
+     }
+     i=i+1
+   }
+   print(b)
+ }
> Q5(7)

```

결과 : [1] 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 7