Analytics of Business Intelligence Fall 2019, Practice Set # 1

1. What is the tot?

```
1    x=c(1,5,6,3,2)
2    tot=10*x-(2+x)
```

2. (Code) What is x?

```
1    x=c(55,seq(1,10,2),c(2,4,5))
```

3. (Code) What is a?

```
1    a=c(55,seq(1,10,2),c(2,4,5))
2    a[2]=3
3    a[8]=6
```

4. (Code) What is t?

```
1    b=1:5
2    t=0
3    for(i in b)
4    {
5       t=t+b
6    }
```

5. (Code) What is b?

```
1     b=c()
2     a=1:5
3
4     for(x in a)
5     {
6        if(a[x]<3)
7        {
8           b[x]=a[x]+3
9        }
10       else
11       {
12          b[x]=a[x]-3
13       }
14    }
```

6. (Code) What is b?

```
1    b=c()
2    a=1:5
3
4    for(x in a)
5    {
6      if(a[x]<3)
7      {
8        b[x]=a[x]+3
9      }
10     else
11     {
12       b[x]=a[x]-3
13     }
14   }
```

7. (Code) What is e?

```
1    a=2
2    b=4
3    c=3
4    p=1:4
5    e=p*a^2+p*b+p*(c-2)
```

8. (Code) What is c?

```
1    b=1:10
2    c=b[b<5]
```

9. (Code) What is c?

```
1    b=1:10
2    c=b[b>5 & b<=8]
```

10. What is x?

```
1    b=1:10
2    x=sum(b[c(3:1,5,8)])
```

11. What is x?

```
1    b=1:5
2    b[c(1,4)]=b[3:5]
3    x=sum(b)
```