HW1

20184448 조민기

Answer 1

```
> y=c("Red","Green","Blue","Magenta")
> x=c(1,2,3,4,5,2,4,3,5,1,2,3,4,5,1,2)
> y[x]
 [1] "Red"     "Green"   "Blue"    "Magenta" NA          "Green"   "Magenta" "Blue"    NA
[10] "Red"     "Green"   "Blue"    "Magenta" NA          "Red"     "Green"
> |
```

Answer 2

```
> A * B
     [,1] [,2] [,3]
[1,]    2    6    0
[2,]    0    2   20
[3,]   15   18    8
> |
```

Answer 3

1)

```
> head(state.x77)
           Population Income Illiteracy Life Exp Murder HS Grad Frost   Area
Alabama          3615   3624        2.1    69.05   15.1    41.3    20  50708
Alaska            365   6315        1.5    69.31   11.3    66.7   152 566432
Arizona          2212   4530        1.8    70.55    7.8    58.1    15 113417
Arkansas         2110   3378        1.9    70.66   10.1    39.9    65  51945
California      21198   5114        1.1    71.71   10.3    62.6    20 156361
Colorado         2541   4884        0.7    72.06    6.8    63.9   166 103766
```

2) 13

```
> sum(state.x77[,"Income"] < 4000)
[1] 13
> max(state.x77[,"Income"])
[1] 6315
> which(state.x77[,"Income"] == max(state.x77[,"Income"]))
Alaska
```

3) Alaska