Lab_05

NETID

Use only commands & functions that are shown in the indicated chapter or prior chapters.

Problem #01 - Chapter 22 Exercise #03

```
# Show your work here

for(index in 1:40){
  if(index==1){
    my_list<--4
    next
  }
  if(index==2){
    my_list<-c(my_list,3)
    next
  }
  nextel<-my_list[index-1]+my_list[index-2]
  my_list<-c(my_list,nextel)
}
my_list
```

```
##  [1]       -4        3       -1        2        1        3        4        7
##  [9]       11       18       29       47       76      123      199      322
## [17]      521      843     1364     2207     3571     5778     9349    15127
## [25]    24476    39603    64079   103682   167761   271443   439204   710647
## [33]  1149851  1860498  3010349  4870847  7881196 12752043 20633239 33385282
```

Problem #02 - Chapter 23 Exercise #10 (Your result should be a logical vector of length two. The first value for "A". The second for "B".)

```
# Show your work here
check<-c('A' %in% Set001,'B' %in% Set001)
check
```

```
## [1] FALSE FALSE
```

Problem #03 - Chapter 24 Exercise #02

```
# Show your work here
sum(Math002,na.rm = TRUE)
```

```
## [1] 24
```

Problem #04 - Chapter 24 Exercise #04

```
# Show your work here
end<-length(Math002)
for(index in 1:end){
  number2<-sum(Math002[1:index],na.rm = TRUE)
  if (index==1){
    listn<-number2
    next
  }
  listn<-c(listn,number2)
}
listn
```

```
##    [1]   -3   -3   -8   -3    2   -2   -2   -7   -2   -5   -1   -1   -2    2
##   [15]    2    2   -2   -1   -4   -5   -3    0    3    7    6    3   -1    3
##   [29]    4   -1    4    7    4    2    2    2   -2   -7   -9  -14   -9   -4
##   [43]   -2   -5   -5   -9   -6   -4   -1   -4   -4   -9   -8   -8  -10  -15
##   [57]  -15  -16  -12  -16  -19  -20  -17  -21  -20  -24  -24  -25  -29  -29
##   [71]  -29  -34  -31  -34  -33  -37  -34  -33  -38  -39  -40  -44  -40  -40
##   [85]  -39  -41  -37  -41  -42  -44  -46  -44  -41  -44  -45  -40  -38  -40
##   [99]  -41  -46  -51  -53  -52  -56  -58  -60  -59  -60  -59  -56  -52  -56
##  [113]  -51  -54  -58  -53  -58  -63  -58  -53  -53  -50  -50  -51  -51  -55
##  [127]  -51  -54  -57  -62  -59  -58  -60  -56  -60  -59  -61  -58  -53  -55
##  [141]  -51  -52  -47  -52  -47  -48  -51  -51  -50  -45  -45  -46  -48  -49
##  [155]  -49  -46  -46  -46  -46  -41  -38  -35  -40  -36  -36  -36  -35  -35
##  [169]  -35  -40  -39  -40  -43  -41  -43  -42  -38  -43  -40  -43  -46  -50
##  [183]  -53  -49  -46  -49  -52  -50  -52  -48  -48  -51  -47  -49  -49  -45
##  [197]  -48  -48  -48  -52  -54  -50  -45  -50  -55  -50  -53  -50  -45  -43
##  [211]  -43  -45  -41  -45  -41  -41  -41  -43  -46  -45  -48  -53  -56  -56
##  [225]  -53  -53  -58  -56  -57  -60  -64  -60  -62  -66  -61  -60  -61  -65
##  [239]  -70  -71  -66  -69  -64  -64  -64  -64  -64  -62  -59  -61  -62  -62
##  [253]  -59  -61  -59  -59  -58  -61  -61  -61  -59  -54  -50  -55  -54  -58
##  [267]  -59  -62  -63  -65  -70  -67  -71  -75  -80  -80  -82  -85  -88  -84
##  [281]  -80  -78  -80  -80  -80  -82  -84  -83  -81  -83  -82  -77  -79  -82
##  [295]  -87  -84  -80  -83  -82  -85  -85  -86  -88  -93  -93  -93  -98  -94
##  [309]  -95  -92  -91  -86  -82  -86  -83  -82  -80  -80  -84  -88  -93  -88
##  [323]  -92  -97 -101  -98 -102  -99 -103 -106 -101 -102 -107 -112 -111 -109
##  [337] -104 -108 -103 -102  -99  -99  -99  -97 -101  -97  -97  -98 -103 -103
##  [351] -103  -99  -96 -100 -100 -102  -97 -101 -106 -107 -111 -113 -117 -118
##  [365] -117 -120 -121 -126 -130 -130 -135 -138 -142 -140 -141 -140 -140 -138
##  [379] -140 -138 -133 -133 -132 -135 -135 -140 -145 -146 -148 -148 -146 -144
##  [393] -146 -146 -151 -151 -148 -153 -156 -159 -154 -154 -155 -155 -160 -160
##  [407] -164 -169 -171 -171 -170 -175 -170 -166 -166 -161 -164 -161 -160 -164
##  [421] -165 -165 -165 -160 -164 -168 -163 -163 -159 -164 -161 -159 -159 -159
##  [435] -154 -158 -163 -159 -158 -159 -162 -162 -162 -160 -165 -163 -158 -157
##  [449] -160 -155 -154 -159 -161 -157 -160 -159 -158 -156 -155 -160 -162 -157
##  [463] -162 -167 -168 -164 -168 -166 -164 -160 -158 -154 -155 -155 -151 -148
##  [477] -152 -157 -153 -153 -151 -146 -143 -145 -144 -139 -143 -146 -150 -150
##  [491] -150 -152 -155 -154 -155 -150 -145 -148 -149 -154 -151 -152 -155 -151
##  [505] -156 -156 -153 -157 -162 -163 -161 -156 -159 -159 -157 -159 -156 -153
##  [519] -153 -150 -146 -146 -149 -153 -152 -157 -157 -153 -156 -151 -152 -153
##  [533] -148 -147 -145 -142 -146 -147 -148 -153 -150 -153 -148 -147 -143 -142
```

```
##  [547] -141 -145 -147 -147 -144 -147 -148 -151 -151 -156 -153 -149 -149 -152
##  [561] -147 -147 -147 -149 -146 -147 -147 -142 -143 -140 -145 -145 -140 -137
##  [575] -137 -132 -128 -123 -125 -129 -133 -133 -133 -133 -129 -125 -123 -122
##  [589] -122 -127 -123 -121 -119 -123 -120 -116 -116 -112 -109 -109 -112 -108
##  [603] -112 -115 -119 -117 -112 -110 -107 -109 -105 -101  -96  -92  -92  -90
##  [617]  -94  -99 -101 -101 -104 -105 -102 -103 -102  -97  -99  -99  -98  -98
##  [631] -102  -99  -99 -101 -106 -110 -115 -115 -112 -115 -110 -109 -109 -109
##  [645] -105 -105 -101 -102  -98  -98  -99  -96  -99  -97  -94  -96  -96  -96
##  [659]  -96  -93  -94  -94  -94  -96  -99  -97  -98  -98 -101 -106 -106 -108
##  [673] -104 -104 -102  -98 -102 -101 -103 -105 -104 -109 -105 -107 -106 -103
##  [687]  -99  -97  -97 -102 -100  -96  -96  -97  -95 -100 -102  -98  -98 -101
##  [701]  -97  -99 -103 -100  -99  -94  -89  -87  -84  -85  -82  -82  -77  -75
##  [715]  -76  -76  -79  -80  -78  -77  -77  -79  -80  -78  -76  -71  -74  -78
##  [729]  -82  -82  -79  -83  -79  -78  -82  -80  -81  -81  -76  -72  -70  -71
##  [743]  -67  -72  -68  -64  -67  -64  -66  -68  -66  -66  -65  -60  -56  -51
##  [757]  -47  -49  -53  -48  -53  -50  -52  -56  -54  -58  -58  -59  -60  -58
##  [771]  -54  -54  -57  -57  -53  -49  -53  -55  -50  -49  -49  -49  -46  -44
##  [785]  -43  -39  -42  -42  -45  -46  -45  -45  -40  -45  -50  -48  -48  -47
##  [799]  -45  -46  -41  -39  -43  -40  -42  -42  -38  -34  -34  -36  -37  -37
##  [813]  -40  -44  -41  -43  -46  -48  -43  -43  -46  -45  -44  -44  -41  -39
##  [827]  -40  -41  -37  -36  -31  -35  -35  -40  -35  -31  -31  -30  -31  -31
##  [841]  -34  -29  -33  -38  -33  -28  -28  -25  -22  -18  -17  -22  -20  -21
##  [855]  -21  -18  -18  -18  -17  -17  -17  -15  -10  -10   -6   -9   -4    0
##  [869]   -2   -3   -1    1    3    3   -1   -5   -2   -2    1    2    6    4
##  [883]    8   13   12   16   20   21   16   17   12   15   18   20   19   17
##  [897]   17   18   19   20   24   27   24   24   19   22   22   18   23   26
##  [911]   30   31   34   29   26   25   25   28   25   29   27   26   25   24
##  [925]   24   20   18   17   19   20   18   23   22   22   21   25   23   19
##  [939]   21   22   25   29   33   33   28   23   20   20   23   22   22   24
##  [953]   20   22   18   19   23   21   24   22   26   23   23   21   25   25
##  [967]   25   29   30   35   39   36   35   35   32   33   32   32   27   26
##  [981]   25   25   21   22   24   26   23   22   26   26   22   19   22   26
##  [995]   26   24   24   25   28   24
```