## Homework Assignment 4

(Due 2:00pm, Dec. 11, email to daehyun.kim@wsu.edu)
Late submissions will not be accepted.

* You can use the following instruction for a multiplication:

MUL Rd, Rs1, Rs2 // Rd = Rs1 * Rs2 (e.g., MUL R2, R4, R6 means R2 = R4 * R6)
MUL Rd, Rs, \#imm // Rd = Rs * \#imm (e.g., MUL R3, R0, \#5 means R3 = R0 * 5)

1. (100 points) Make an assembly code only for the nested for loop. You can use R0 for variable i and R1 for variable $k$. The memory figure shows the current stack pointer (SP) and the memory spaces used for variable x and y .
```
int y[2][3];
int** x = new int*[2];
for(int i= 0; i< 2; i++ )
    x[i] = new int[3];
for(int i= 0; i< 2;i++ ){
    for(int k=0;k<3;k++ )
        x[i][k] = y[i][k];
}
```

