```
#define M ____

#define N ____

int arr1[M][N];
int arr2[N][M];

void swap(int k, int j){
  arr1[k][j] = arr2[j][k];
}

int main(){
  int j = 0; int k = 0;
  for (k = 0; k < M; k++){
    for (j = 0; j < N; j++){
      swap (k,j);
    }
  }
  return 0;
}
```

ASSEMBLY:
(arr1 = 0x8049540, arr2 = 0x8049600)

```
08048308 <swap>:
 8048308:       push   %ebp
 8048309:       mov    %esp,%ebp
 804830b:       mov    0x8(%ebp),%edx
 804830e:       mov    %edx,%eax
 8048310:       shl    $0x3,%eax
 8048313:       add    %edx,%eax
 8048315:       mov    %eax,%ecx
 8048317:       add    0xc(%ebp),%ecx
 804831a:       mov    0xc(%ebp),%edx
 804831d:       mov    %edx,%eax
 804831f:       shl    $0x2,%eax
 8048322:       add    %edx,%eax
 8048324:       add    0x8(%ebp),%eax
 8048327:       mov    0x8049600(,%eax,4),%eax
 804832e:       mov    %eax,0x8049540(,%ecx,4)
 8048335:       pop    %ebp
 8048336:       ret
```

Floating Point - Prepare for next recitation (9/29)
Recommended problems: 2.33, 2.34, 2.37