Problem 14. (8 points):

Consider the source code below, where M and N are constants declared with #define.

```
int array1[M][N];
int array2[N][M];

int copy(int i, int j)
{
    array1[i][j] = array2[j][i];
}
```

Suppose the above code generates the following assembly code:

```
copy:
 pushl %ebp
 movl %esp, %ebp
 pushl %ebx
 movl 8(%ebp),%ecx
 movl 12(%ebp),%ebx
  leal (%ecx,%ecx,8),%edx
  sall $2,%edx
  movl %ebx, %eax
  sall $4,%eax
  subl %ebx,%eax
  sall $2,%eax
 movl array2(%eax,%ecx,4),%eax
 movl %eax,array1(%edx,%ebx,4)
 popl %ebx
 movl %ebp, %esp
 popl %ebp
```

What are the values of M and N?

M =