

ISS – Class Activity 1

Shell Programming

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a) 87 : validate_m : validate
88 : multiply_m : multiply

Code also needs some changes to handle 'rows and cols' as global variables.

```
6 : if ! [[ $rows =~ ^[0-9]+$ ]] || ! [[ $cols =~ ^[0-9]+$ ]] || [ $rows -eq 0 ]  
|| [ $cols -eq 0 ]; then  
    : if ! [[ $rows1 =~ ^[0-9]+$ ]] || ! [[ $cols1 =~ ^[0-9]+$ ]] || [ $rows1 -  
eq 0 ] || [ $cols1 -eq 0 ] || [[ $rows2 =~ ^[0-9]+$ ]] || ! [[ $cols2 =~ ^[0-  
9]+$ ]] || [ $rows2 -eq 0 ] || [ $cols2 -eq 0 ]; then
```

Also removed lines 4, 5, 14, 15, 16.

b) Takes in two sets of inputs for two matrices to multiply them together.
Takes in dimensions and elements of each matrix separately and checks whether the inputs are valid integers.
Multiplies them together if possible and returns the output.

c) It checks whether the elements entered are integers and also checks if any of the dimensions is zero.

d) 54th line:
if [\$# -ne 2]; then

All the code that comes before is defined under functions and no function is called before this line.