



Lab 6 – Participation Activity

Given this code:

```
x = strings(5, 5); %preallocate a 2D array with blank strings, 5 by 5
x(2:2:end, :) = "*"; %set all even rows to *
x(1:2:end, :) = "-"; %set all odd rows to -
disp(x); %display result
```

When run in the command window, this code produces:

```
>> lab6
"_"  "_"  "_"  "_"  "_"
"*"  "*"  "*"  "*"  "*"
"_"  "_"  "_"  "_"  "_"
"*"  "*"  "*"  "*"  "*"
"_"  "_"  "_"  "_"  "_"
```

For this participation activity, please write the code that produces these displays. Do not use your computer, your code should be handwritten. Please use the whiteboards. Don't forget to take a photo of your work when you are done. Write your code in general, so that it would work for any size array.

A. Four corners.

```
"*"  "_"  "_"  "*"
"_"  "_"  "_"  "_"
"_"  "_"  "_"  "_"
"*"  "_"  "_"  "*"

```

B. Diagonal

```
"X"  ""  ""  ""  ""  ""  ""
""  "X"  ""  ""  ""  ""  ""
""  ""  "X"  ""  ""  ""  ""
""  ""  ""  "X"  ""  ""  ""
""  ""  ""  ""  "X"  ""  ""
""  ""  ""  ""  ""  "X"  ""
""  ""  ""  ""  ""  ""  "X"

```

C. Cross through the middle

```
"O"  "O"  "+"  "O"  "O"
"+"  "+"  "+"  "+"  "+"
"O"  "O"  "+"  "O"  "O"

```