Recitation 01

Legos-Unix-Git

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Lego

Find the algorithm:

```
Count from 1 to N, call each number i. For each i do: if (STATEMENT)
```

place some Lego brick with color C1

Otherwise

Legos-Step1

Find the algorithm:

You are given 4 boards. Each board represents the algorithm for different **N=1,2,3,4**

Count from 1 to N, call each number i. For each i do:

if (STATEMENT)

place some Lego brick with color C1

Otherwise

Legos-Step1

```
Write down the algorithm and return to your TA
```

```
N=1,2,3,4
```

Count from 1 to N, call each number i. For each i do:

```
if (STATEMENT)
```

place some Lego brick with color C1

Otherwise

Legos-Step2

You are given an extra board with legos.

Execute the algorithm you found for N=5

Count from 1 to N, call each number *i*. For each *i* do: if (STATEMENT)

place some Lego brick with color C1

Otherwise

Lego-Step3

Exchange algorithms with the team next to you.

Execute the new algorithm for N=5

Legos-Algorithms

Algorithm 1:

```
Count from 1 [inclusive] to N [inclusive], call each number i If (i + N is even)
Place a 2x2 C1 block with its lower left corner at (3*i, 2*i+1)
Otherwise
Place a 4x2 C2 block with its lower left corner at (3*i+1, 2*i) such that the long end is vertical
```

Legos-Algorithms

Algorithm 2:

```
Count from 1 [inclusive] to N [inclusive], call each number i

If (i >= N/2)

Place a 4x2 C1 block with its lower left corner at (2*(i-1), i+2) w/ the
long end vertical

Otherwise

Place a 4x2 C2 block with its lower left corner at (2*(i-1), 2*i) w/ the
long end vertical
```

Unix

- 1. Change Directory: cd /path/to/my/directory
- 2. What is my current directory? pwd
- 3. List my files in my current directory: Is
- 4. Make new Directory: mkdir /path/to/my/directory/new_folder

mkdir –p /path/to/my/directory/parent_folder/child_folder

Unix

5. Copy files: cp /path/to/my/file/file1 /path/to/my/file/file_copy

6. Cut or **Mov**e or rename files:

mv /path/to/my/file/file1 /new/path/file1

Unix: Absolute vs Relative path

cd /home/gm118/ (Change directory to the absolute path)

cd./ece551 (relative path depending on my current directory)

cd ../ (go up one directory)

Unix: Use with COTION

Remove a file: rm ./my_file

Remove a directory: rmdir ./myfolder/

rm -rf ./myfolder/ (Delete all files and folders inside myfolder)

-r = Recursively, -f = Force

Git Commands

- 1. git pull: Updates all your file
- 2. git add file_name
- 3. git commit -m "A message to remind me what I changed!"
- 4. git push (Don't forget this command)
- 5. grade exercise_title (Don't forget this either!)

Git – deleted files

git status -> information about git. Needs to be clean to grade

git checkout -- deleted_file -> Undo the deletion

git rm -> remove deleted files from repository