

CS242

Lab 10

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Motion Simulation using Make

Make [For Compilation]

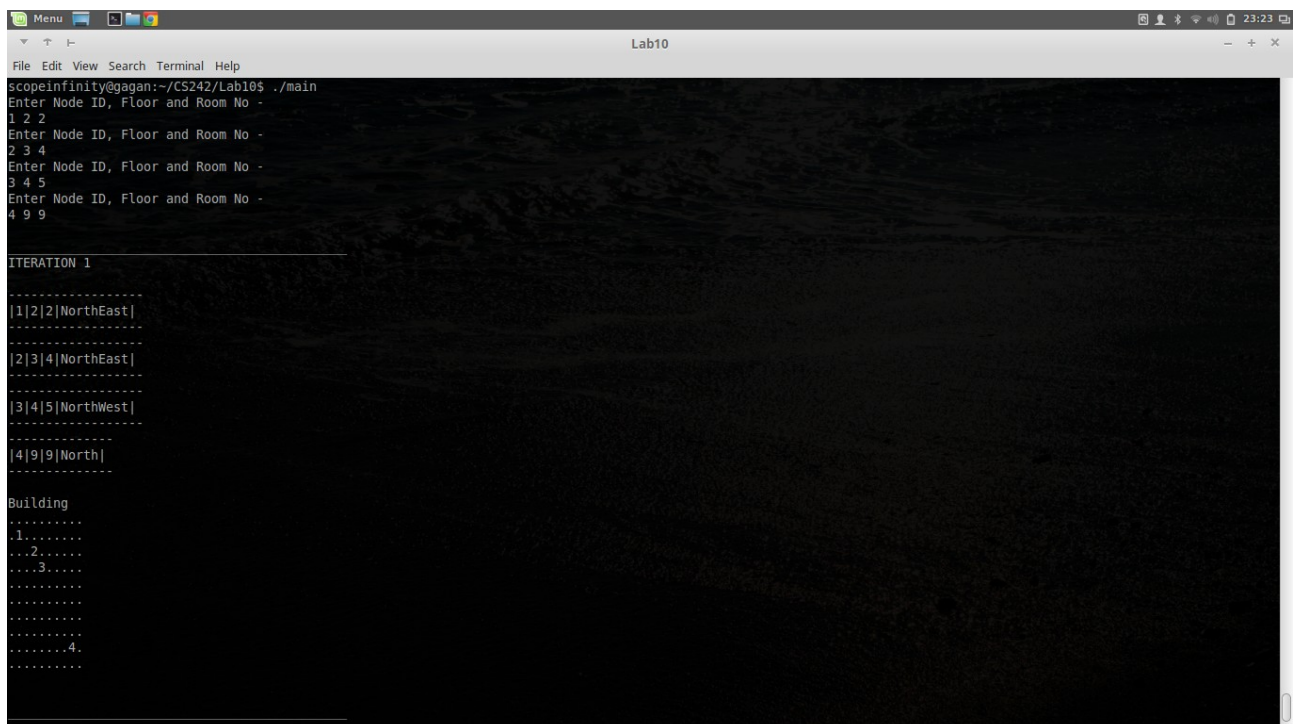
```
scopeinfinity@gagan:~/CS242/Lab10$ make
gcc -c main.c
gcc -c motion.c
gcc -c printfloor.c
gcc -o main main.o motion.o printfloor.o
scopeinfinity@gagan:~/CS242/Lab10$
```

Make Again [No changes]

```
scopeinfinity@gagan:~/CS242/Lab10$ make
make: `main' is up to date.
scopeinfinity@gagan:~/CS242/Lab10$
```

[Simulation]

Iteration 0



```
Menu [Icons]
Lab10
File Edit View Search Terminal Help
scopeinfinity@gagan:~/CS242/Lab10$ ./main
Enter Node ID, Floor and Room No -
1 2 2
Enter Node ID, Floor and Room No -
2 3 4
Enter Node ID, Floor and Room No -
3 4 5
Enter Node ID, Floor and Room No -
4 9 9

ITERATION 1

|1|2|2|NorthEast|
|2|3|4|NorthEast|
|3|4|5|NorthWest|
|4|9|9|North|

Building
1.....
2.....
3.....
4.....
```

Iteration 1

```
Menu 23:23
Lab10
File Edit View Search Terminal Help

.1.....
.2.....
.3.....
.....
.....
.....4.
.....

ITERATION 2

|1|1|3|NorthEast|
|-----|
|2|2|5|NorthEast|
|-----|
|3|3|4|NorthWest|
|-----|
|4|8|9|North|
|-----|

Building
.1.....
.2.....
.3.....
.....
.....4.
.....
```

Iteration 2

```
Menu 23:23
Lab10
File Edit View Search Terminal Help

.1.....
.2.....
.3.....
.....
.....4.
.....

ITERATION 3

|1|2|4|SouthEast|
|-----|
|2|1|6|NorthEast|
|-----|
|3|2|3|NorthWest|
|-----|
|4|7|9|North|
|-----|

Building
.2.....
.31.....
.....
.....4.
.....
```

Iteration 3

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

Building
....2....
..31.....
.....
.....
.....4.
.....
.....

ITERATION 4
-----
|1|3|5|SouthEast|
|-----|
|2|2|7|SouthEast|
|-----|
|3|1|2|NorthWest|
|-----|
|4|6|9|North|
|-----|

Building
..3.....
....2....
...1.....
.....
.....4.
.....
.....
```

Iteration 4

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

Building
..3.....
....2....
...1.....
.....
.....4.
.....
.....

ITERATION 5
-----
|1|4|6|SouthEast|
|-----|
|2|3|8|SouthEast|
|-----|
|3|2|1|SouthWest|
|-----|
|4|5|9|North|
|-----|

Building
..3.....
....2....
...1.....
.....4.
.....
.....
```


Iteration 5

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

3.....2..
.....1...
.....4..
.....
.....
.....

ITERATION 6

|1|5|7|SouthEast|
|-----|
|2|4|9|SouthEast|
|-----|
|3|3|2|SouthEast|
|-----|
|4|5|9|North|
|-----|

Building
.....
3.....2..
.....1.4.
.....
.....
.....
```

Iteration 6

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

.....
3.....2..
.....1.4.
.....
.....
.....

ITERATION 7

|1|6|8|SouthEast|
|-----|
|2|5|10|SouthEast|
|-----|
|3|4|3|SouthEast|
|-----|
|4|4|9|North|
|-----|

Building
.....
3.....4..
.....2..
.....1..
.....
.....
```

Iteration 7

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

Building
.....
.....
.....4.
.....2
.....1.
.....
.....

ITERATION 8
-----
|1|7|9|SouthEast|
|-----|
|2|6|9|SouthWest|
|-----|
|3|5|4|SouthEast|
|-----|
|4|3|9|North|
|-----|

Building
.....
.....4.
.....
.....3.
.....2.
.....1.
.....
.....
```

Iteration 8

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

Building
.....
.....4.
.....
.....3.
.....2.
.....1.
.....
.....

ITERATION 9
-----
|1|8|10|SouthEast|
|-----|
|2|7|8|SouthWest|
|-----|
|3|6|5|SouthEast|
|-----|
|4|2|9|North|
|-----|

Building
.....
.....4.
.....
.....3.
.....2.
.....1
.....
```

Iteration 9

```
Menu [Icons] 23:23
Lab10
File Edit View Search Terminal Help

-----
Building
.....4.
.....
.....
.....3.....
.....2..
.....1
.....

ITERATION 10
-----
|1|9|9|SouthWest|
-----
|2|8|7|SouthWest|
-----
|3|7|6|SouthEast|
-----
|4|1|9|North|
-----

Building
.....4.
.....
.....
.....3.....
.....2..
```