
Week 06

COMP 102

Victoria University of Wellington

GoSoapBox

- Gosoapbox.com
 - Access code: comp102vuw
- Use Social Q&A to ask questions

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- Use Social Q&A to ask questions
 - Please do not write about the test

What is this?

- Let us look at a “simple” example...
- Also, talk about Path.of

GhostsStory

- Save and load ghosts

GhostsStory

x	y	name (default Blinky)
207.51031028991534	298.95080314549097	Pokey
60.33736144596197	244.68705152701295	
210.83002090943458	233.04052058436636	Inky
136.42425812448988	259.30934805228355	
256.1185415846659	296.5330606696882	Pokey
28.786687297708056	60.047238012202655	Pokey
218.28232718123823	222.87398052804647	Pinky
238.14491411800992	210.67434485147783	
246.10743037952682	228.10701118303564	Inky
81.82246400709178	293.35059171086294	Pokey

How can we add width/height and direction?

`scan.hasNext() <=` checks for String (a double can also be treated as a string)

`Scan.hasNextDouble() <=` checks for Double (there are strings that are not double numbers e.g. "Pokey")

```
//Save all ghosts' information (pos and name)
for(Ghost g : list) {
    double x = g.getMiddleX();
    double y = g.getMiddleY();

    if(g.getName().equals(g.BLINKY)) {
        stream.println(x + " " + y);
    } else {
        stream.println(x + " " + y + " " + g.getName());
    }
}
```

GhostsStory

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scan.hasNext() <= checks for String (a double can also be treated as a string)

Scan.hasNextDouble() <= checks for Double (there are strings that are not double numbers e.g. "Pokey", whereas "207.43" is.)

```
//Read the scanner
while(scan.hasNext()) {
    double x = scan.nextDouble();
    double y = scan.nextDouble();

    Ghost g = new Ghost(x,y,25,25);

    if(!scan.hasNextDouble()) {
        String name = scan.next();

        if(name.equals(g.INKY)) {
            g.setInky();
        } else if (name.equals(g.PINKY)){
            g.setPinky();
        } else if (name.equals(g.POKEY)){
            g.setPokey();
        }
    }

    ghosts.add(g);
}
```


GhostsStory

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207.51031028991534	298.95080314549097	Pokey
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scan.hasNext() <= checks for String (a double can also be treated as a string)

Scan.hasNextDouble() <= checks for Double (there are strings that are not double numbers e.g. "Pokey")

How can we add width/height and direction?

=> Easy to save

=> But we must think about how we can load using a Scanner

```
//Read the scanner
while(scan.hasNext()) {
    double x = scan.nextDouble();
    double y = scan.nextDouble();

    Ghost g = new Ghost(x,y,25,25);

    if(!scan.hasNextDouble()) {
        String name = scan.next();

        if(name.equals(g.INKY)) {
            g.setInky();
        } else if (name.equals(g.PINKY)){
            g.setPinky();
        } else if (name.equals(g.POKEY)){
            g.setPokey();
        }
    }

    ghosts.add(g);
}
```