

CSCI 335 — Software Development

Chain of Responsibility

November 16, 2007

Exception handling

```
try {
    Scanner file = new Scanner(new FileInputStream("operations.dat"));
    while (file.hasNext())
        Class.forName(file.nextLine());
} catch (IOException ioe) {
    System.out.println("Couldn't find file operations.dat");
    System.exit(-1);
} catch (ClassNotFoundException cnfe) {
    System.out.println("Couldn't load operation " + cnfe.getMessage());
    System.exit(-1);
}
```

Pattern matching

```
datatype treeGenus = Oak | Elm | Maple | Spruce | Fir |  
                  Pine | Willow;
```

```
datatype treeDivision = Deciduous | Broadleaf;
```

```
fun division(Pine) = Coniferous  
  | division(Spruce) = Coniferous  
  | division(Fir) = Coniferous  
  | division(x) = Broadleaf;
```

Linked lists

```
public class Node {  
  
    private int datum;  
    private Node next;  
  
    public boolean contains(int item) {  
        if (item == datum) return true;  
        else if (next != null) return next.contains(item);  
        else return false;  
    }  
}
```