

```
1 // Ch9Demo2
2
3 import java.io. BufferedReader ;
4 import java.io. InputStreamReader ;
5 import java.io. IOException ;
6
7 public class Ch9Demo2
8 {
9     public static void main (String [] args) throws IOException
10    {
11        Student studentA = new Student (4.0, "jason", 72);
12        Student studentB = new Student (3.4, "courtney", 63);
13        Student studentC = new Student (2.9, "brandon", 90);
14
15        String teamA = "Avalanche" ;
16        String teamB = "Broncos" ;
17        String teamC = "Cardinals" ;
18
19        BufferedReader console = new BufferedReader (new
InputStreamReader (System.in));
20        System.out.print ("Enter 1 or 2: " );
21        String input = console.readLine ();
22        int num = Integer.parseInt (input);
23
24        if (num == 1)
25            findMax (studentA, studentB, studentC );
26        else
27            findMax (teamA, teamB, teamC );
28    }
29
30    public static void findMax (Comparable a, Comparable b, Comparable c)
31    {
32        if (a.compareTo (b) > 0 && a.compareTo (c) > 0)
33            System.out.println (a + " is the max" );
34        else if (b.compareTo (a) > 0 && b.compareTo (c) > 0)
35            System.out.println (b + " is the max" );
36        else
37            System.out.println (c + " is the max" );
38    }
39
40    // findMax can be used with parameters of any class
41    //     that implements Comparable
42
43    // compareTo is an example of polymorphism since it acts differently in
44    //     the Student class from how it acts in the String class
45 }
46
47
48
49
```