

Design of Bar Charts

Topic Course: CS473 Computer Graphics in Java

Due:

Name _____ I.D. (last 4 digits) _____

Design of Bar Charts (10pts).

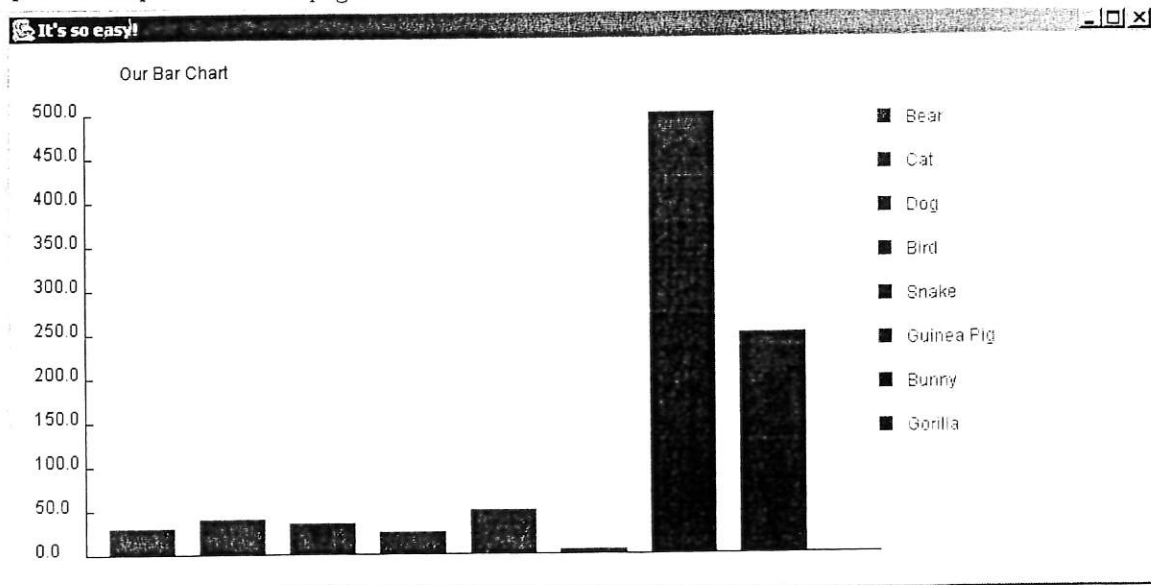
Write a program which plots bar charts based on given information. The following requirements have to meet:

1. Each bar is drawn as a rectangle;
2. Each bar is filled with a distinctive color or pattern;
3. The height, width and spacing of the bars are adjustable according to the number of bars in the chart and the height of the tallest bar;
4. Text should be used properly to identify each bar;
5. Horizontal axis and vertical axis must be used;
6. The vertical axis should have proper scale marks;
7. *You should not use any existing graphics functions beyond drawing lines, drawing/filling rectangles, and writing text for this assignments;*
8. (Extra 2pts) The number of bars in the bar chart should be allowed to vary (up to a limit, say 8);
9. The values of the bar chart items should not be limited to within a small range;
10. Test the program with **three** sets of input.
11. (Extra 3pts) Don't hard-code the input data. Instead, inputs should be taken from an external file.

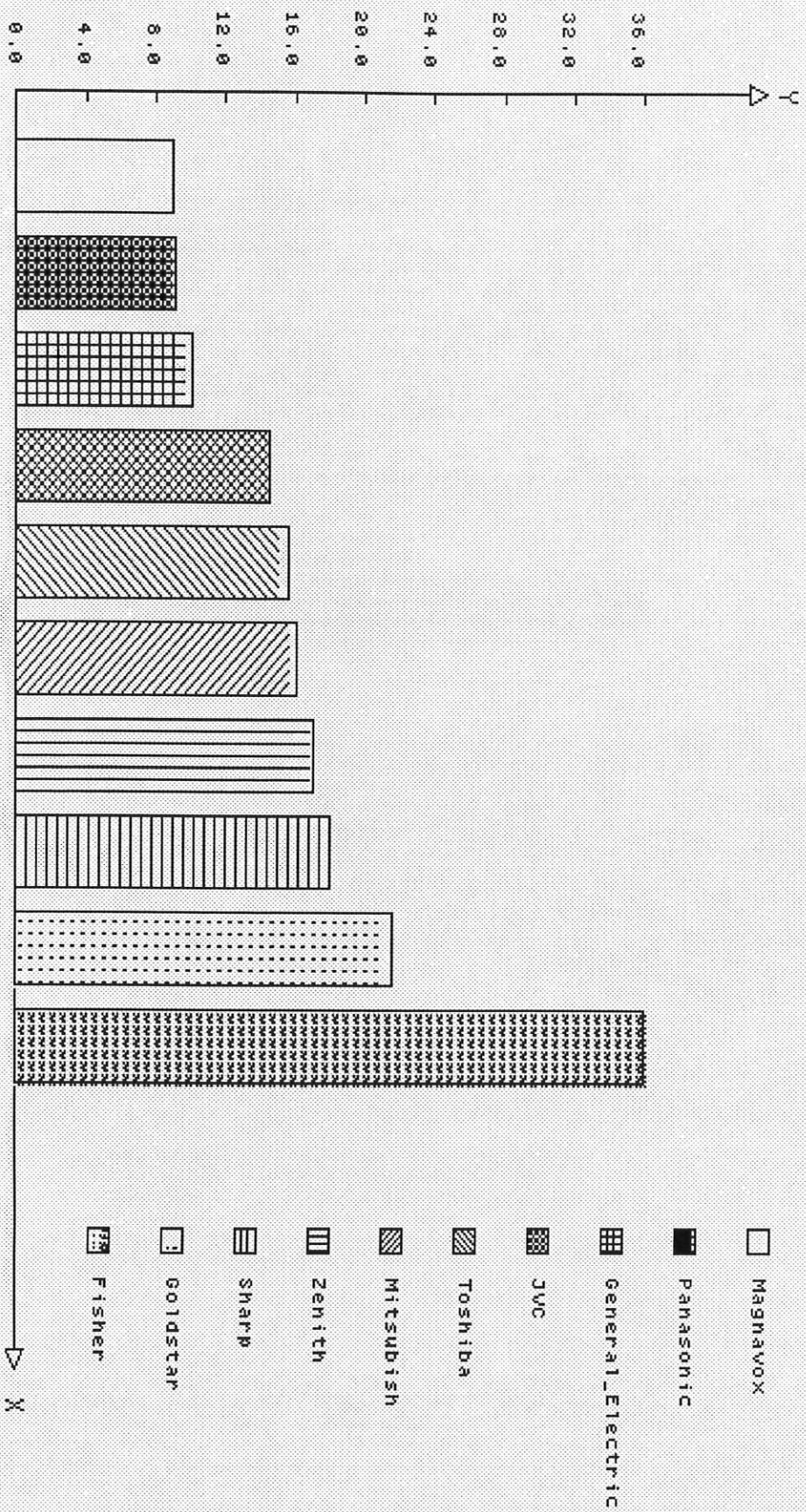
Hand in

1. A printout of your program, and make sure your names are included in the comments;
2. The sets of data which you use to test your program;
3. A disk which contains your source code and the executable program.

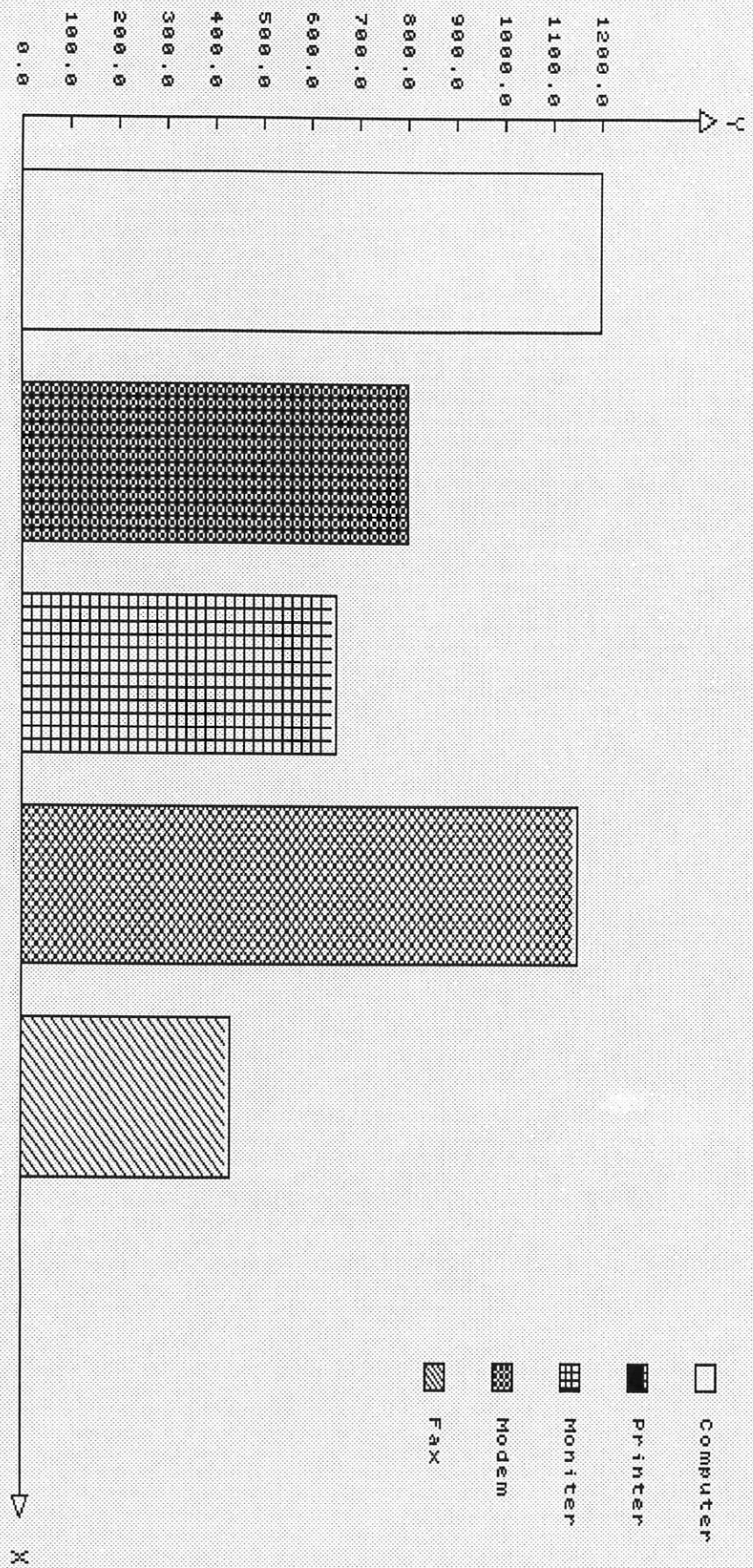
Output Examples: See next page.



VCRs_Repair_Histories_(%)_in_



ABC_Company_ Annual_Sales_(in_\$1,000)



Minivans_Overall_MPG_in_

