

Instructions:

Program Name: L1200-01.LSP

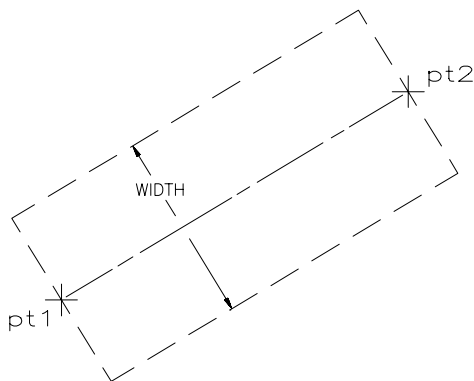
1. Function 1 Name: RANGLE

Purpose: To draw a rectangle or square by allowing the user to select two coordinate locations on the drawing. The coordinate locations are on the center line of the rectangle or square. The rectangle or square must be able to be placed at any angle.

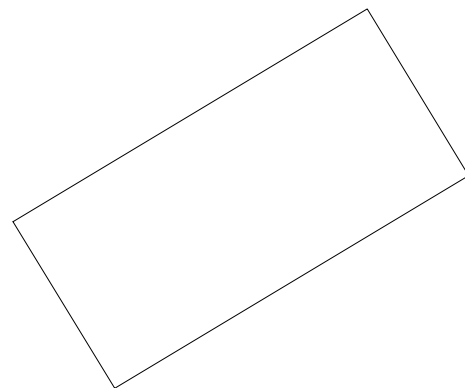
- a) Change the screen to a graphic screen.
- b) Prompt the user to select or enter the first point.
- c) Prompt the user to select or enter the second point.
- d) Rubber-band the center line of the rectangle or square.
- e) Use the LINE command to draw the lines.
- f) Redraw the screen.
- g) Print the message RECTANGLE COMPLETE on the screen.

Program Example

Command: **RANGLE**
First point:
Second point:
Enter width: 2.5
RECTANGLE COMPLETE
Command:



STEP 1



STEP 2

Instructions:

Program Name: L1201-01.LSP

1. Function 1 Name: C:DIMLINE

Purpose: To insert a dimension line complete with arrowheads.

- a) Store the present setting for the system variables Command Echo and Current Layer.
- b) Set the system variable Command Echo off.
- c) Clear the text screen.
- d) Prompt the user for the layer name and color. Set them as current.
- e) Change to the graphics screen and prompt the user to select the two endpoints of the dimension line. Allow the user to digitize two points at any angle. Rubberband a line between point 1 and point 2.
- f) Draw the dimension line complete with arrowheads.
- g) Draw the arrowheads using the SOLID command. Draw them 0.125 units long (measured along the dimension line) at an angle of 9 degrees from the dimension line.
- h) Reset all the system variables at the end of the program.

Program Example

Command: **DIMLINE**

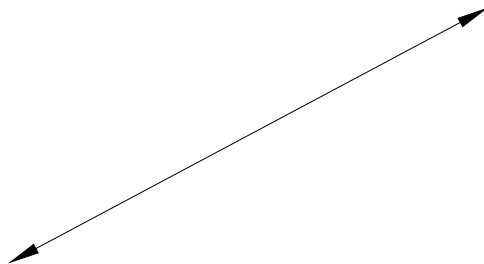
Enter the Layer name: **DIM**

Enter the Layer color: **RED**

Select the first endpoint of the dimension:

Select the second endpoint of the dimension:

Command:



Instructions:

Program Name: L1270-01.LSP

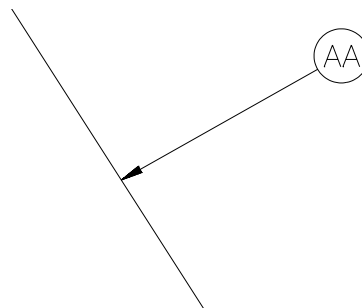
1. Function 1 Name: BALLOON

Purpose: To allow the user to draw a balloon, complete with text, leader and arrowhead.

- a) The program should change to the text screen, clear it and prompt the user to enter the following:
 - i) The arrowhead length. (default - current value DIMASZ)
 - ii) The text height. (default current system variable setting)
 - iii) The layer name for the balloon. (default current layer)
- b) Your program should display the defaults. If the user presses the ENTER key to the prompt, your program should use the default.
- c) The program should change to the graphic screen and prompt the user to enter the following:
 - i) The start point of the leader. The osnap system variable should be set to 'near' for this point only.
 - ii) The center of the balloon.
 - iii) The text that is to be placed in the balloon, maximum two characters - no spaces.
- d) Each balloon should be placed on the layer entered by the user. If the layer does not exist, the program should create it.
- e) The arrowhead should be made using the SOLID command. The angle from the line should be 0.165148 radians.
- f) The diameter of the circle should be two and one-half times as large as the text height.

Program Example

Command: **BALLOON**
Enter the arrowhead length <0.18>: **.25**
Enter the text height <0.20>:
Enter name of layer to place balloon: <0>:
Indicate arrowhead location:
Indicate center of balloon:
Enter balloon text: **AA**
Command:



Instructions:

Program Name: L1342-03.LSP

Function Name: DRAWTEXTL

Purpose: To allow the user to pick two points or select the end points of an existing line and then have it insert three lines of text with information about the points and the active drawing.

- a) Prompt the user to select two points or the end points of an existing line. The program should rubber band between the first and second point selection.
- b) Prompt the user to enter the insert point for the top text line.
- c) Prompt the user to enter the text height and show the current text height as the default. If the user enters the text height, change the default text height.
- d) Prompt the user to enter the layer to place the text on and show the current layer as the default. If the user enters a layer name, create the layer, if required, and make it the current layer. If the user enters a layer name, the color should also be asked for.
- e) Insert the text with the information about the points selected as well as information about the active drawing as shown below.
- f) The text should have the font ROMANS.

Program Example

Command: **DRAWTEXTL**

Select two points or snap to the end points of an existing line.

First point:

Second point:

Select the insert point for the text:

Enter the text height <0.20>:

Enter the layer name <Top>:

Enter the layer color:

Command:

THE DISTANCE BETWEEN THE POINTS IS 3.452 UNITS AT AN
AN ANGLE OF 34 DEGREES 43 MINUTES 12.2 SECONDS.
THIS DRAWING IS NAMED VALVE.DWG AND IT WAS DRAWING WITH
AUTOCAD 14 ON JULY 18, 1998.