Lab Exercise Date 07-03-2019

1. Complete the two programs of previous week's assignment.
2. Write a C program to draw a cubic Bezier curve with P1= (10, 10), P2= (20, 10), P3= (40, 30) and P4=(30, 10).

Instructions

Bezier curve goes through (interpolates) the ends P1, P4 and approximates the two other ones. The next point on the curve after P1 is determined as a variable t where $0 \le t \le 1$ i.e.

$$x(t) = (1-t)^3 x1 + 3t(1-t)^2 x2 + 3t^2(1-t) x3 + t^3 x4$$

$$y(t) = (1-t)^3 y1 + 3t(1-t)^2 y2 + 3t^2(1-t) y3 + t^3 y4$$