```
#include <graphics.h>
#include <stdlib.h>
#include <math.h>
#include <stdio.h>
#include <conio.h>
#include <iostream.h>
class bresen
  float x, y,a, b, r, p;
  public:
  void get ();
  void cal ();
};
  void main ()
  bresen b;
  b.get ();
  b.cal ();
  getch ();
  Void bresen :: get ()
  cout<<"ENTER CENTER AND RADIUS";
   cout<< "ENTER (a, b)";
  cin>>a>>b;
  cout < "ENTER r";
  cin>>r;
void bresen ::cal ()
{
  /* request auto detection */
  int gdriver = DETECT,gmode, errorcode;
  int midx, midy, i;
  /* initialize graphics and local variables */
  initgraph (&gdriver, &gmode, "");
  /* read result of initialization */
  errorcode = graphresult ();
  if (errorcode ! = grOK) /*an error occurred */
  {
     printf("Graphics error: %s \n", grapherrormsg (errorcode);
     printf ("Press any key to halt:");
     getch ();
```

```
exit (1); /* terminate with an error code */
  }
  x=0;
  y=r;
  putpixel (a, b+r, RED);
  putpixel (a, b-r, RED);
  putpixel (a-r, b, RED);
  putpixel (a+r, b, RED);
  p=5/4)-r;
  while (x<=y)
  {
     If (p<0)
     p+=(4*x)+6;
     else
       p+=(2*(x-y))+5;
       y--;
     }
     χ++;
     putpixel (a+x, b+y, RED);
     putpixel (a-x, b+y, RED);
     putpixel (a+x, b-y, RED);
     putpixel (a+x, b-y, RED);
     putpixel (a+x, b+y, RED);
     putpixel (a+x, b-y, RED);
     putpixel (a-x, b+y, RED);
     putpixel (a-x, b-y, RED);
  }
}
```