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#include <stdio.h>
#include <stdlib.h>
#include <math.h>
//Function prototypes
float f(float x);
float secant(float a, float b);
int main()
 float a, b, root;
 printf("Enter a: ");
  scanf("%f", &a);
  printf("Enter b: ");
  scanf("%f", &b);
 root = secant(a, b);
 printf("Root of the equation is %f\n", root);
 exit (0);
float f(float x)
  float ans;
  ans = x*x + 5*x + 2;
  //Checking if result is NAN
 if (ans != ans)
      printf("Cannot proceed further...Try changing the inteval\n");
  }
  return ans;
float secant(float a, float b)
  float c;
  while (1)
      c = (a*f(b) - b*f(a))/(f(b) - f(a));
      if(f(c) == (float)0)
          return c;
      if(b == c)
         return c;
      a = b;
     b = c;
 }
}
```