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/*
This a program to find out the root of a function f = exp(x)*ln(x) - x^2 using Newton's method.
This program is created by Mohammad Sazzad Hossain.
*/

   # include <iostream>
   # include <math.h>

      xusing namespace std;

      int main (){
      float x = 0, interval = 1e-6, tag = 0;
      float f, df;

   do {
      f = exp (x) * log (x) - x * x;
      df = exp (x) * (log(x) + 1 / x) - 2 * x;

      if ((interval - f / df) < 1e-6 && (interval - f / df) > -1e-6)
      tag = 1;
      x += interval;
   }while (tag == 0);

      cout << x << endl;
   return 0;
   }
```