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/*
This is a program to find out the root of a function f = exp (x) * log (x) - x * x using Bisection Method.
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*/

    # include <iostream.h>

        int main ()

    {

        double f, x, a, b;
        int i = 0, tag = 0;

        a = 0; b = 0;

    do {
        x = i;
        f = x * x * x - x - 1;

        if (f < 0)
        a = i;
    else {
        b = i;
        tag = 1;
    }
        i++;
    }while (tag != 1);

        tag = 0;

    do {
        x = (a + b) / 2;
        f = x * x * x - x - 1;

        if (f < 0.0001 && f > -0.0001){
        cout << x << endl;
        tag = 1;
    }

    else {
        if (f < 0)
        a = x;
        else
```

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        b = x;
    }
}while (tag != 1);

return 0;
}
```