```
1 /* report10-a.c - f(x)= cosx - xの計算 */
2 /* 作成者: 192C2008 石原 峻;作成日: 19/07/05 */
 3
 4
   #include <stdio.h>
 5
   #include <math.h>
 7
    int main(void)
 8
9
        double y, x1, x2, x, z;
10
        x1 = 0;
11
        x2 = 1;
12
        z = x2 - x1;
13
14
15
        while(z > 0.001){
16
            x = (x1 + x2) / 2;
17
             y = cos(x) - x;
18
             if(y > 0){
19
                 x1 = x;
20
             }else{
21
                 x2 = xi
22
23
             z = x2 - x1;
24
25
            printf("x = %lf\n", x);
26
27
            return 0;
28
   }
29
```