```
double eps(double e)
    return 1.0 + e / 2.0 > 1.0? eps(e / 2.0) : e;
double power(double a, int b)
    return b == 0 ? 1 : a * power(a, b - 1);
double absR(double a)
    return a < 0 ? -a : a;
}
int main(void)
    double k = power(10, 14);
    double a = 0.0;
    double b = 0.5:
    double x = a;
    int n = 20;
    double e = eps(1.0);
    scanf("%d%lf", &n, &k);
printf("e = %.25lf\nn = %d\n
                                                                           f(x)
                           taylor f(x) v.2
taylor f(x)
                                                   itern", e, n);
    for (int i = 0; i < n; ++i) {
        int step = 1;
        int step1 = 1;
        double lastSyepValue = 0.0;
        double currentStepValue = (1.0 + 2.0 / 3.0);
        double lastSyepValue_11 = 0.0;
        double currentStepValue_11 = (1.0);
        double lastSyepValue_12 = 0.0;
        double currentStepValue_12 = (2.0 / 3.0);
        double answer = currentStepValue;
        double answer1 = currentStepValue_11 + currentStepValue_12;
        x = a + i * (b - a) / (n - 1);
        while (absR(currentStepValue - lastSyepValue) > e * k) {
            lastSyepValue = currentStepValue;
            currentStepValue = lastSyepValue * x / 3.0 + (2.0 / 3.0) * power(x, step);
            answer += currentStepValue;
            step++;
        while (absR((currentStepValue_11 + currentStepValue_12) - (lastSyepValue_11 +
lastSyepValue_12)) > e * k) {
            lastSyepValue_11 = currentStepValue_11;
            lastSyepValue_12 = currentStepValue_12;
            currentStepValue_11 = lastSyepValue_11 * x;
            currentStepValue_12 = lastSyepValue_12 * x / 3.0;
            answer1 += currentStepValue_11 + currentStepValue_12;
            step1++;
        }
        printf("%0.25lf %0.25lf %0.25lf %0.25lf %d
                                                          %d\n", x, (3.0 * x - 5.0) / (x
* x - 4.0 * x + 3.0, -answer, -answer1, step, step1);
    return 0;
```

#include<stdio.h>