0.1.

0.1 函数的基本概念

以下的程序用于输出从键盘输入的一个实数的绝对值:

```
#include <stdio.h>
         double absolute(double x);
         int main()
          {
               \mathbf{double} \ \ \mathbf{u} \,, \ \ \mathbf{v} \,;
               printf("Please_input_a_value:");
               scanf("%lf", &u);
               v = absolute(u);
               printf("The_absolute_value_is \%f.", v);
               return 0;
         }
         double absolute (double x)
               if (x >= 0)
                    return x;
               else
                    return -x;
          }
#include <stdio.h>
#include <math.h>
double squareRoot(double x);
int main()
     double x;
     for (x = 1.0; x \le 10.0; x += 0.1)
          printf("\%f \setminus t\%f \setminus t\%f \setminus n", x, squareRoot(x), sqrt(x))
double squareRoot(double x)
     double r = x;
     const double eps = 0.000000001;
     \mathbf{while} \ (\,\mathrm{fabs}\,(\,\mathrm{r}\ *\ \mathrm{r}\ -\ \mathrm{x}\,) \,>=\, \mathrm{eps}\,)
          r = 1.0 / 2 * (r + x / r);
     return r;
```