

## speed

Write a C program that reads the time (in seconds) and distance (in kilometers) covered by a moving object, calculate the speed in kilometers per second, and display the speed on the screen. The program should first read in the number of times for computing the speed. The relevant formula is:  $\text{speed} = \text{distance}/\text{time}$ . The output should be in the following format: "The speed is [the speed value] km/sec". No need to check errors on user input.

A sample program template is given below:

```
#include <stdio.h>
int main()
{
    /* Write your code here */
    return 0;
}
```

Sample input and output sessions are given below:

(1) Test Case 1:

Enter the number of times:

1

Enter distance (in km):

1

Enter time (in sec):

10

The speed is 0.10 km/sec

(2) Test Case 2:

Enter the number of times:

2

Enter distance (in km):

10

Enter time (in sec):

5

The speed is 2.00 km/sec

Enter distance (in km):

1

Enter time (in sec):

10

The speed is 0.10 km/sec