

printMultiTable

Write a C program that asks the user to input a positive number between 1 and 9, reads the number from the user and prints the multiplication table of the input number.

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 a number (between 1 and 9):

3

Multiplication Table:

```
1 2 3
1 1
2 2 4
3 3 6 9
```

(2) Test Case 2

Enter a number (between 1 and 9):

5

Multiplication Table:

```
1 2 3 4 5
1 1
2 2 4
3 3 6 9
4 4 8 12 16
5 5 10 15 20 25
```

(3) Test Case 3

Enter a number (between 1 and 9):

9

Multiplication Table:

```
1 2 3 4 5 6 7 8 9
1 1
2 2 4
3 3 6 9
4 4 8 12 16
5 5 10 15 20 25
6 6 12 18 24 30 36
7 7 14 21 28 35 42 49
8 8 16 24 32 40 48 56 64
9 9 18 27 36 45 54 63 72 81
```

```
#include <stdio.h>
int main()
{
    int num;
    int i,j;

    printf("Enter a number (between 1 and 9):\n");
    scanf("%d",&num);
    printf("Multiplication Table:\n");

    printf(" ");
    for(i=1;i<=num;i++)
    {
        printf("%d ",i);
    }
    printf("\n");

    for(i=1;i<=num;i++)
    {
        printf("%d ",i);
        for(j=1;j<=i;j++)
        {
            printf("%d ",i*j);
        }
        printf("\n");
    }
    return 0;
}
```

