```
15.1 4 1 -1
   15.2 24 288 27648
   15.3
      x = 1, y = 2
      x = 2, y = 1
      x = 1, y = 2
   15.9
1
       #include <stdio.h>
2
       int Func1(int, int);
3
4
       int Func2(int);
5
6
       int main() {
7
           int x = 1;
8
           int y = 2;
9
           x = Func1(x, y);
10
11
           y = Func2(y);
12
13
           printf("x = %d y = %d\n", x, y);
       }
14
15
16 -
       int Func1(int x) {
17
       int Func1(int x, int y) {
18
           return x + y;
19
       }
20
21
       int Func2(int x) {
22
           int y;
           //此处的 y 没有初始化,但不知 Func2 的具体功能,因而无法判断.
23 ?
24
           return x - y;
25
       }
   15.7
   ToUpper:
             SUBI R29, R29, #4
             SW
                   O(R29), R30
                   R30, R29, #4
             ADDI
             SUBI
                   R29, R29, #4
                   O(R29), R16
             SW
             SLTI R8, R4, x61
             BNEZ
                   R8, J1
                   R8, R4, x7A
             SLEI
                   R8, J1
             BEQZ
             SUBI
                   R4, R4, x20
                   R16, R4, #0
   J1:
             ADDI
             ADDI
                   R2, R16, #0
                   R16, O(R29)
             LW
                   R29, R29, #4
             ADDI
             LW
                   R30, O(R29)
                   R29, R29, #4
             ADDI
             RET
```

16.1

- 1). 5
- 2). 运行时栈中有三个变量 x, ptr1, ptr2, 其中, ptr2 的值为 ptr1 的地址, ptr1 的值为 x 的地址, x 的值为 5.

```
16.2
```

- 1). 9
- 2). HELLO

16.9

1

2 3

4 5

6

7 8

9

10

11

12 13 14

15

17

18

19 20

21 22

23

24

25

26

16 +

}

```
R29, R29, #4
StringLength:
                SUBI
                SW
                       O(R29), R16
                       R16, R0, #0
                 ADDI
J1:
                       R8, R4, R16
                 ADDI
                       R9, O(R8)
                LB
                 BEQZ
                       R9, J2
                 ADDI
                       R16, R16, #1
                       J1
                       R2, R16, #0
J2:
                 ADDI
                       R16, O(R29)
                LW
                 ADDI
                       R29, R29, #4
                RET
16.10
    #include <stdio.h>
    char* ToUpper(char* inchar);
    int main() {
        char str[10];
        printf("Enter a string: ");
        scanf("%s", str);
```

 $printf("%s\n", ToUpper(str));$

while (*(inchar + i) != '\0') {

*(str + i) = *(inchar + i);

char* ToUpper(char* inchar) {

char* str = inchar;

char str[10];

int i = 0;

i++;

return str;

16.14 abc123

}

}

if ('a' <= *(inchar + i) && *(inchar + i) <= 'z')

*(str + i) = *(inchar + i) - ('a' - 'A');