

(1) What would be the outputs of the following programs?

(a)

```
#include <stdio.h>

main() {
    char a, b, c, d, e, f;
    d = 'A';
    e = '\101';
    f = '\x41';
    a = 65;
    b = 0101;
    c = 0x41;
    printf( "%c %c %c %c %c %c\n", a, b, c, d, e, f)
}
```

(b)

```
for (i = 0; i < n; i++)
    printf("%6d%c", a[i],
           (i%10==9 || i==n-1) ? '\n' : ' ');
```

(c)

```
int a=2, b=3; c=5, d=7, e=11, f=3;
f += a/b/c;           3
d -= 7+c*-d/e;        -3
d = 2*a%b+c+1;        7
a += b +=c += 1+2;    13
```

(d) Structures and pointers

```
printf( "%s\n", p->str );
printf( "%c\n", *p->str );
printf( "%c\n", *p->str++ );
printf( "%c\n", *p->str );
(*p->str)++;
printf( "%c\n", *p->str );
printf( "%c\n", *p++->str );
printf( "%d\n", p->len );
```

(2) Write a function to swap two integers.

(3) Write a function to copy the content of string s1 to string s2.

(4) Identify the errors in the following program.

```
int a[10], *pa, i = 10;  
pa = a;  
a++;  
pa = a + i;  
pa[-5] = 0;
```