

1) What are the outputs of the following code pieces? (· denotes space character)

```
char A[]={" 0123"}; int i=4;
do
    printf("%c",A[i--]);
while(A[i]!=' ');
```

a) 321 d) 21
b) 3210 e) 3210·
c) 210 f) 210·

2)-----

```
int A[]={4,3,2,1,0}; int i=1;
for(;A[i];++i)
    A[i]+=A[i-1];
printf("%d",A[i-1]);
```

a) 1 d) 9
b) 0 e) 10
c) 2 f) 4

3)-----

```
int A[]={0,2,1,6,8};
int i=1,T=0;
while(i<5)
    T+=(A[i++]-A[i-1]);
printf("%d",T);
```

a) 1 d) 8
b) 4 e) 9
c) 6 f) 17

4)-----

```
int X=0xAAAA,M=1,R=0;
dongu:
if(X&M) R++;
if(M<=1) goto dongu;
printf("%X",R);
```

a) AA d) 0
b) AAAA e) 10
c) 8 f) 11

5)-----

```
int i=4;
for(;i++<9;printf("%d",i&3));
```

a) 7771111 d) 1234
b) 45678 e) 4567
c) 12345 f) 12301

6)-----

```
int A=0xc,B=0xd,C=2;
if((A|B)&C) printf("%dd",A);
else switch(B%C){
    case 1: printf("%cc",'C');
    default: printf("%xx",B);
} printf("%d",1);
```

a) Ccdx1 d) Cc1
b) 0xcd e) 2cd1
c) cd f) 10d1

7)-----

```
int A=0xA0,B=0x20,C=2,D=0xF;
A|=(B>>C)%(B&D|3);
printf("0x%X",A);
```

a) A8 d) 8
b) 0xA2 e) 0xA8
c) a2 f) 0xA

8)-----

```
int fii(int X){
    printf("%d",X); return X++;
}
int main(){ int b=0;
    b=fii(5); fii(fii(++b));
    printf("%d",fii(b++));
    return 0;
}
```

a) 57878 d) 57891
b) 56677 e) 56666
c) 55566 f) 55555

9) What would be the removed code (marked as ###) in order to have the given output?

```
int b=10;
for(b--;###>0;b--)
    printf("%d",b);
```

output : 86420

- a) b
- b) b-1
- c) 1-b
- d) b--
- e) --b
- f) b++

10)-----

```
int A[6]={2,4,8},i=4;
do printf("%d",###);
while(i);
```

output : 0842

- a) (i>=1)*4
- b) A[i]-i
- c) A[--i]
- d) A[i]
- e) 2*i--
- f) (i-=2)

11)-----

```
int T=0;
while(###)
    printf("%d",T);
```

output : 1234

- a) ++T<6
- b) T++<5
- c) T<6
- d) T+1<5
- e) T++<7
- f) ++T<5

12) How many of the following declarations are correct?

```
char ogu[3]={"OGU"};
signed short _float;
char "ESOGU";
int u='A';
long double LD[1],Ld;
int A[6]={"EECE\n"};
```

- a) 4
- b) 5
- c) 6
- d) 1
- e) 2
- f) 3

(Answers 3, 4 and 5 are accepted as the last declaration is unintentionally made of type `int` and we have not seen such a thing in the class.)

13) Which line in the following code has compiler error(s)?

```
float delta
(int a,int b,int c){ /* 1 */
    float dt=0;
    char H[]{"eecs"}; /* 2 */
    dt = b^2-4ac; /* 3 */
    printf("%s",H); /* 4 */
    return dt/2/a;} /* 5 */
```

- a) 5
- b) 3
- c) 1
- d) answer not here
- e) 4
- f) 2

1	2	3	4	5	6	7	8	9	10	11	12	13
B	E	D	C	F	A	B	E	D	C	F	abf	B