## **One-dimensional Arrays**

Q1 What will be the output of the program? #include <stdio.h> int main() int i,a[10]; 9 [ ] = 10 for (i=9;i>=0;i--) a[i]=10-i;printf("%d %d %d",a[3],a[6],a[9]); return 0; } A. 2 5 8 B. 7 4 1 C. 8 5 2 D. 3 6 9 Answer: Q2 What will be the output of the program? #include <stdio.h> int main()

```
#include <stdio.h>
int main()
{
    int i,n[4]={1};
    for (i=1;i<=3;i++)
    {
        n[i]=n[i-1]*2+1;
        printf("%d ",n[i]);
    }
    return 0;
}
A. 3 7 10
B. 3 6 12
C. 2 7 14
D. 3 7 15

Answer: ())
```

Q3 What will be the output of the program?

```
#include <stdio.h>
int main()
{
  int a[] = {2,3,5,4},i;
  for (i=0;i<4;i++)
    switch (i%2)</pre>
```

```
{
                                  O
       case 0: switch(a[i]%2)
             case 0:a[i]++; break;
            case 1:a[i]--;
       } break;
       case 1: a[i]=0;
  for (i=0;i<4;i++) printf("%d ", a[i]);
  printf("\n");
  return 0;
}
A. 3 3 4 4
B. 2 0,5 0
C. 3 0/4 0
D. 0 3 0 4
Answer: ( ) X
```

Q4 What will be the output of the program?

```
#include <stdio.h>
int main()
{
  int x[]={1,2,3};
  int s,i,*p;
  s=1; p=x;
  for (i=0; i<3; i++)
     s*=*(p+i);
  printf("%d\n",s);
  return 0;
}
A. 4
B. 5
C. 6
D. 7
Answer:
```

Q5 What will be the output of the program?

```
return 0;
}
A. 16
B. 10
C. 8
D. 6
Answer: (3)
```

Q6 What will be the output of the program?

```
#include <stdio.h>
int main()
  int a[] = { 1,2,3,4,5,6 };
  int *p;
   p = a;
   printf("%d ", *p); /
  printf("%d ", *(++p)); 2 ⇒ P = a[]
printf("%d ", *++p); 3 ⇒ P = a[]
printf("%d ", *+p);
  printf("%d ", *(p--)); }
   p += 3;
   printf("%d %d\n", *p, *(a+3));
   return 0;
                               9[37
}
A. 1 2 2 3 5 4
B. 1 2 3 3 5 4
C. 1 2 3 4 5 4
D. 1 2 3 4 6 4
Answer: (\cline{Q})
```

Q7 What will be the output of the program?

```
#include <stdio.h>
int b=2;
int fun(int *k);
int main()
{
   int a[10] = {1,2,3,4,5,6,7,8},i;
   for (i=2;i<4;i++)
   {
      b=fun(&a[i])+b;
      printf("%d ",b);
   }
   printf("\n");
   return 0;</pre>
```

```
b = 5+5
= 10

}
int fun(int *k)
{
   b=*k+b; return(b);
}
A. 10 12
B. 8 10
C. 10 28
D. 10 16

Answer: (A C b is global variable
```

Q8 What will be the output of the program?
#include <stdio.h>
void fun(int b[]);
int main()
{
 int a[4],i;
 fun(a);

for (i=0;i<4;i++)
 printf("%d ",a[i]);
return 0;
}

void fun(int b[])

int j;
for ( j=0; j<4; j++ )
b[j] = j; b[o] b[3]

A. 0 1 2 3 B. 1 2 3 4

C. 2 3 4 5 D. 3 4 5 6

Answer: (A)

Q9 What will be the output of the program?

```
#include <stdio.h>
void change(int *b, int n);
int main()
{
   int i, a[] = {2, 4, 6, 8, 10};
   change(a, 5);
   for(i=0; i<=4; i++)
      printf("%d ", a[i]);</pre>
```

```
void change(int *b, int n)
  int i;
   for (i=0; i<\bar{n}; i++)
     *(b+1) = *(b+i)+5;
     ニレビリ
A. 7 9 11 13 15 = B. 2 15 6 8 10
C. 2 4 6 8 10 = 15
D. 3 1 -1 -3 -5
Answer: (A)
Q10 What will be the output of the program?
#include <stdio.h>
#define MAX 10
int a[MAX],i;
void sub1();
void sub2();
void sub3(int a[]);
int main()
{
  printf("\n"); sub1(); sub2(); sub3(a);
  return 0;
void sub1()
               10
  for (i=0; i<MAX; i++) a[i]=i+1;
void sub2()
 - int a[MAX],i,max;
  max=5;
                                  9[0]=0
  for (i=0;i<max;i++) a[i]=i;
void sub3(int a[])
  int i;
  int 1;
for (i=0;i<MAX;i++) printf("%d ",a[i]);</pre>
  printf("\n");
A. 0 2 4 6 8 10 12 14 16 18
B. 1 3 5 7 9 11 13 15 17 19
```

C. 0 1 2 3 4 5 6 7 8 9 D. 1 2 3 4 5 6 7 8 9 10

return 0;