

1. What will be the output of following code

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int a=10;
    int *ptr=&a;
    printf("%d,%d,%d",*ptr++,++*ptr,--a);
    return 0;
}
```

Answers

1. 11,11,10
2. 10,11,9
3. 10,10,9
4. 11,10,9

2. Predict the output

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int a=10;
    int *b,*c;
    b=&a;
    c=b;
    printf("%d%d%d%d\n",a,*(&a),*b,*c);
    return 0;
}
```

Answers

1. 10,10,10,10
2. 10,4500,10,10
3. Compile time error
4. Garbage values

3. What will be the output of following code

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int arr[]={0,1,2,3,4};
    int i;
    int *p;
    for(p=arr,i=0;p+i<=arr+4;p++,i++)
    {
        printf("%d",*(p+i));
    }
    return 0;
}
```

Answers

1. 0 1 2

2. 0 2 4

3. 1 2 3

4. 2 3 4

4. What will be the output

4. What will be the output

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int a=10;
    int *ptr=&a;
    void *vptr=ptr;
    *ptr++;
    *vptr++;
    printf("Values are %d%d",*ptr,*vptr);
    return 0;
}
```

Answers

1. Compile time error

2. Values are 10 11

3. Values are 11 11

4. Values are 10 10

5. What is output of following code

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int arr[]={0,1,2,3,4};
    int i,*ptr;
    for(ptr=&arr[0],i=0;i<=4;i++)
    {
        printf("%d",ptr[i]);
    }
    return 0;
}
```

Answers

1. 0 1 2 3 4

2. 1 2 3 4 5

3. 0 1 2 3 0

4. Compile time error

6. What will be the output

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int a=10;
    int *ptr=&a;
    void *vptr=ptr;
    *ptr++;
    *vptr++;
    printf("Values are %d%d",*ptr,*vptr);
    return 0;
}
```

Answers

1. Compile time error

2. Values are 10 11

3. Values are 11 11

4. Values are 10 10

```
#include<string.h>
void updateVal(int*);
int main(void)
{
    int a[5]={2,3,4,5,6};
    int i;
    updateVal(a);
    for(i=4;i>=0;i--)
    {
        printf("%d",a[i]);
    }
    return 0;
}
void updateVal(int *b)
{
    int i;
    for(i=0;i<=4;i++)
    {
        *b=*b+1;
        b++;
    }
}
```

Answers

1. 7 6 5 4 3

2. 2 3 4 5 6

8. What will be the output

```
#include<stdio.h>
#include<string.h>
void updateVal(int*);
int main(void)
{
    int a[5]={2,3,4,5,6};
    int i;
    updateVal(a);
    for(i=4;i>=0;i--)
    {
        printf("%d",a[i]);
    }
    return 0;
}
void updateVal(int *b)
{
    int i;
    for(i=0;i<=4;i++)
    {
        *b=*b+1;
        b++;
    }
}
```

Answers

1. 7 6 5 4 3

9. What will be the output of following code

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int arr[]={0,1,2,3,4};
    int i,*ptr;
    for(ptr=arr+4,i=0;i<=4;i++)
    {
        printf("%d",ptr[-i]);
    }
    return 0;
}
```

Answers

1. 0 1 2 3 4

2. 4 5 6 7 8

3. Runtime error terminated with -1

4. 4 3 2 1 0

10. What will be the output of following code

```
#include<stdio.h>
#include<string.h>
int main(void)
{
    int arr[]={0,1,2,3,4};
    int i,*ptr;
    for(ptr=arr+4,i=0;i<=4;i++)
    {
        printf("%d",ptr[-i]);
    }
    return 0;
}
```

Answers

1. 0 1 2 3 4

2. 4 5 6 7 8

3. Runtime error terminated with -1

4. 4 3 2 1 0