

## C Quiz 5 Q&A (26-11-2023)

```
1. #include<stdio.h>
void swap (char *x, char *y)
{
    char *t = x;
    x = y;
    y = t;
}
int main()
{
    char ch1 = 'S', ch2= 'P';
    char *ptr = &ch1;
    printf("%c", *&*ptr);
    char *x = &ch1;
    char *y = &ch2;
    swap(x, y);
    printf("(%c , %c)", *x, *y);
    return 0;
}
```

### Answers

1. P(P , S)
2. S(P , S)
3. S(S , P)
4. S(S , S)

2. What will be the o/p of the following code

```
#include <stdio.h>
int main(void)
{
    int arr[5]={10,20,30,40,50};
    int *ptr;
    ptr = arr+2;
    *ptr=33;
    *ptr++;
    printf("%d",--*ptr);
}
```

### Answers

1. 31
2. 20
3. 39
4. 40

3. What will be the Output?

```
#include <stdio.h>
int main()          //assume x address is 2000 and ptr address is 2004
{
    int x = 0 ;
    int *ptr = &x;
    *ptr += 5;
    printf("\n x = %d", x);
    printf(" *ptr = %d", *ptr);
    (*ptr)++;
    printf("\n x = %d", x);
    printf(" *ptr = %d", *ptr++);
    printf("\n Difference= %d", ptr - &x);
    return 0;
}
```

Answers

1. x=5    \*ptr=5    x=6    \*ptr =6    Difference=1
2. x=5    \*ptr=gabrage    x=6    \*ptr =gabrage    Difference=2
3. x=5    \*ptr=gabrage    x=6    \*ptr =6    Difference=-4
4. x=5    \*ptr=5    x=6    \*ptr =6    Difference=4

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

Answers

1. lvalue required error
2. 10    gabrage
3. 11    12
4. 11    11

5. What will the following code result?

```
#include <stdio.h>
void main()
{
    int a,b=10;
    printf(" COUNT=");
    a=show(&b);
    printf("\nValue Returned=%d", a);
}
int show(int * x)
{
    printf("%d", *x);
    return 15;
    return 35;
}
```

Answers

1. Compiler error
2. COUNT=10 Value Returned=15
3. COUNT=10 Value Returned=35
4. Run Time Error

6. What will be the output of following code snippet?

```
#include <stdio.h>
void display(int*);
int main()
{
    int i = 10, *p = &i;
    display(p++);
    printf("%d\n", *--p);
}
void display(int *p)
{
    *p == 11;
    printf("%d\n", *p);
}
```

Answers

1. 10    6684232
2. 10    11
3. 11    11
4. 10    10

7. What will be the Output??

```
#include <stdio.h>
int main()
{
    void *p;
    char name[]="ABCDE";
    p = name;
    printf("\n name= %s",p);
    ++(*(char*)p);
    printf("\n name= %s",p);
    return 0;
}
```

Answers

1. name= ABCDE    name= BBCDE
2. Compile Time Error
3. name= ABCDE    name= BCDE
4. RunTime Error

8. What will be the output?

```
#include <stdio.h>
int main(void)
{
    const int p = 5;
    int *const ptr = &p;
    ++(*ptr);
    printf("%d\n",p);
    return 0;
}
```

Answers

1. 5
2. 6
3. Compile time error
4. Run time error

9. Predict The Output?

```
#include <stdio.h>
int main()
{
    int i = 97, *p = &i;
    show((&i)++);
    printf("%d %d", i, *p);
    return 0;
}
void show(int *p)
{
    int j = 2;
    *p = &j;
    printf("%d %d ", j, *p);
}
```

Answers

1. 2 6684172 6684172 6684172
2. 2 6684172 97 6684172
3. Compiler Error
4. Run Time Error

10. #include <stdio.h>

```
int main()
{
    const int x =5;
    const int *ptrx;
    ptrx =&x;
    *ptrx =10;
    printf("%d", x);
}
```

Answers

1. 5
2. Compile Error
3. 10
4. Garbage Value

-----Compiled by Utkarsh Singh -----

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