



Welcome!
gowrish varma
SRM Institute of Science & Technology Andhra Pradesh

My Assessment

← 05 May 2024 - CCC SRM AP - Stream
II - Day-6 FN

Quiz · 15
mins

```
1. #include<stdio.h>

int main(){
    int a, b, c;
    char *p = 0;
    int *q = 0;
    double *r = 0;
    a = (int)(p + 1);
    b = (int)(q + 1);
    c = (int)(r + 1);
    printf("%d %d %d", a, b, c);
    return 0;
}
```



- Run time error
- 0 0 0
- Compilation error
- 1 4 8

2. #include<stdio.h>

```
int main()
{
    const int a = 5;
    const int *ptr;
    ptr = &a;
    *ptr = 10;
    printf("%d\n", a);
    return 0;
}
```

- Compilation error
- Garbage Value



5

3. #include<stdio.h>

```
int main()
{
    printf("%d", sizeof(void *));
    return 0;
}
```

1

compilation error

Runtime error

4

4. #include<stdio.h>

```
int main()
{
    int a = 10, b = 6;
    int *ptr;
    ptr = &b;
    printf(" %d ", a **ptr);
```



- Pointer type error
- Run time error
- Compilation error
- 60

```
5. #include<stdio.h>
int main(){
    char array[5] = "Knot", *ptr, i, *ptr1;
    ptr = &array[1];
    ptr1 = ptr + 3;
    *ptr1 = 101;
    for(i = 0; i < 4;i++)
        printf("%c", *ptr++);
    return 0;
}
```

- not
- knot
- note



6. #include<stdio.h>
int main(){
int i = 5;
void *vptr;
vptr = &i;
printf("\nValue of iptr = %d ", *vptr);
return 0;
}

- 5
- garbage address
- garbage value
- Compile time error

7. #include<stdio.h>
int main(){
char *str1 = "First";
char *str2 = "Second";
switch(*str1){
case "First": printf("USAIN BOLT");break;
case "Second":printf("JUSTIN GATLIN");
break;
default:printf("Others");
}



- USAIN BOLT
- JUSTIN GATLIN
- Compilation Error
- Others

```
8. #include<stdio.h>
int main(){
    char *str = "ABCD";
    switch(*str + 2){
        case 'A':printf("Apple");
        break;
        case 'B':printf("BOOK");
        break;
        case 'C':printf("CLOUD");
        break;
        case 'D':printf("DELL");
        break;
    }
    return 0;
}
```

- CLOUD
- BOOK



- Compilation Error

9. #include <stdio.h>
int main()
{
int x = 10000;
double y = 56;
int *p = &x;
double *q = &y;
printf("p and q are %d and %d",
sizeof(p), sizeof(q)); return 0;
}

- p and q are 4 and 4

- p and q are 4 and 8

- compiler error

- p and q are 2 and 8

10. #include <stdio.h>
int main()
{
int x = 10000;
double y = 56;
int *p = &x;



```
double *q = &y;  
printf("p and q are %d and %d",  
      sizeof(p), sizeof(q));  
return 0;  
}
```

- p and q are 4 and 4
- p and q are 4 and 8
- compiler error
- p and q are 2 and 8

11. #include <stdio.h>

```
int main() {  
    int arr[5] = {1, 2, 3, 4, 5};  
    int *ptr = &arr[0];  
    ptr += 3;  
    printf("%d", *ptr);  
    return 0;  
}
```

- 4
- 5
- compiler error



undefined behaviour

12. #include <stdio.h>

```
int main() {  
    int *ptr = (int *)malloc(sizeof(int));  
    *ptr = 42;  
    free(ptr);  
    printf("%d", *ptr);  
    return 0;  
}
```

- prints 42
- prints 0
- Causes a segmentation fault
- compilation error

13. #include <stdio.h>

```
int main() {  
    char *str = "Dynamic";  
    str[2] = 'x';  
    printf("%s", str);  
    return 0;  
}
```



Segmentation fault

- Runtime error
- Prints "Dyxnamic"
- Prints "Dynamic"

```
14. #include<stdio.h>
int main()
{
    int num = 10; // assume the address
    location is 2293436
    printf("num = %d address = %u ",num,
    &num);
    num++;
    printf("\tnum = %d address = %u",num,
    &num);

    return 0;
}
```

- Compilation error
- num = 10 address = 2293436
 - num = 11 address = 2293438
- num = 10 address = 2293436
 - num = 11 address = 2293440



num = 10 address = 2293436

 num = 11 address = 2293436

```
15. #include<stdio.h>
int main(){
char ch = '\0';
switch(ch){
case NULL:printf("Empty \0");
break;
case ' ':printf("Empty Empty");
break;
case '0':printf("Empty 0");
break;
default:printf("Nothing");}
Return 0; }
```

- Empty \0
- Empty Empty
- Empty 0
- None of the above

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