

STRINGS

1. Which of the following is illegal declaration in c.

- a) `char*str="hello"`
- b) `char str[20]="hello"`
- c) `char str[]="hello"`
- d) `char []str="hello"`

```
2.#include<stdio.h>
#include<string.h>
int main()
{
char *s = "Good Morning";
char *p = "Good Afternoon";
if(strncmp(s,p,5)==0)
printf("if part");
else
printf("else part");
}
```

```
3.#include <stdio.h>
int main()
{
char s[]="ABCDE";
char*p="abcede";
*(s+1)+=32;
*(p+1)-=32;
printf("%s %s",s,p);
}
```

```
4.#include <stdio.h>
int main()
{
char str[10] = "98765", *p;
p = str + 1;
*p = '0' ;
printf ("%s", str);
}
```

```
5.#include<stdio.h>
int main()
{
char p[]="57893";
printf("%dpqrst %s"+5,p);
}
```

```
6.#include<stdio.h>
int main()
{
```

```

char str[] = "Apple";
char *ptr = str + 2;
printf("%c", *(ptr + 1));
}

```

```

7.#include <stdio.h>
int main(void)
{
char buf[10]="12345698";
char p=(buf+1)[5];
printf("%d",p);
return 0;
}

```

8. Write the prototype for strcmp, strcmp, strchr function.

```

9.#include<stdio.h>
int main()
{
char a[10]="hello";
a[7]='a';
a[8]='b';
printf("%s",a);
}

```

```

10.#include <stdio.h>
void main(){
char c[] = "abcdef";
char *p =c;
printf("%s", p + p[3] - p[1]);
}

```

```

11.#include <stdio.h>
int main()
{
char s[]="pqrstuv";
int *p=s;
p++;
printf("%s",p);
}

```

```

12.#include <stdio.h>
int main()
{
char s1[]={ 'a','b','c','d','e' };
char s2[]="abcde";
if(sizeof(s1)==sizeof(s2))
printf("success");
else
printf("achievement");
}

```

```
}
```

```
13.#include<stdio.h>
#include<string.h>
int main()
{
    char str1[] = "AbcFfechj";
    char c='c';
    printf("%s ", str1+(strchr(str1,c)-strchr(str1,c)));
}
```

```
14.#include<stdio.h>
char* func(char []);
int main()
{
    char c[]="JUMPER";
    printf("%s",func(c));
}
char* func(char b[])
{
    b++;b++;
    printf("%c ",b[1]);
    return b;
}
```

```
15.#include <stdio.h>
int main()
{
    int p[]={ 'h','e','l','l','o' };
    char *s=p;
    printf("%s",s);
}
```

```
16.#include<stdio.h>
#include<string.h>
int main()
{
    char str1[] = "FIRST";
    char str2[20];
    strcpy(str2,str1);
    printf("%d ", (str1==str2));
    printf("%d", strcmp(str1,str2));
    return 0;
}
```

17. Write a program to find number of words in a string line.

```
18.#include <stdio.h>
int main()
{
```

```
char b[]="cheerful";
short int *a=b;
char *p=(char*)(a+2);
p++;
printf("%s",p);
}
```

```
19.#include <stdio.h>
#include<string.h>
int main()
{
char s1[]="malayalam";
char *s=strchr(s1,97);
s--;
printf("%s",s);
}
```

```
20.#include <stdio.h>
#include<string.h>
int main()
{
char s1[20];
strcpy(s1,"Dream");
strcat(s1," big");
printf("%s",s1);
}
```

```
21.#include <stdio.h>
int main()
{
char x[20]="Embrace change";
char *p=x+7,i;
for(i=p-x;x[i];i++)
printf("%c",x[i]);
}
```

```
22.#include <stdio.h>
#include<string.h>
int main()
{
char p[]="red";
char q[]="black";
strncpy(q,p,2);
printf("%s",q);
}
```

```
23.#include<stdio.h>
int main()
{
char p[]="135642";
```

```
printf("%d ",p[3]-48);
printf("%d",p[4]-48);
}
```

24. Write a program to find the most occurring character in a string.

Ex: I/p - "abcbadaefb"

O/p - 'a'

```
25.#include <stdio.h>
int main()
{
char p[]="Passion";
char *s="devotion";
p++;
s++;
printf("%s %s",p,s);
}
```

```
26.#include <stdio.h>
#include<string.h>
int main()
{
char t[10]="hai";
strcpy(t+3,"hello");
printf("%s",t);
}
```

```
27.#include <stdio.h>
void main()
{
char a[8]="ABCD";
short int *p=a;
p[2]=49|50<<8;
printf("%s",a);
}
```

```
28.#include <stdio.h>
#include<string.h>
int main()
{
int r;
r=strcmp("bliss"," bliss");
printf("%d",r);
}
```

```
29.#include <stdio.h>
int main()
{
int p=48,q=50;
short int a[]={ '1','2','3'};
```

```

char *m=(char*)a;
m[1]=p,m[3]=q;
printf("%s",a);
}

```

```

30.#include <stdio.h>
#include<string.h>
int main()
{
char a[]={'\0','a','b','c','d'};
printf("%d",strlen(a));
printf("%s",a);
}

```

```

31.#include <stdio.h>
int main() {
char s[]="Amor fati";
char *p=s+5;
while(*p++)
printf("%s\n",p);
}

```

```

32.#include <stdio.h>
#include<string.h>
int main()
{
char a[]="Trust Yourself";
char b[10];
printf("%d",strlen(strncat(b,a,5)));
}

```

```

33.#include <stdio.h>
void main()
{
char s[10]="ABCDEPQ";
int *p=(int*)s;
p[1]=50|49<<8;
printf("%s",s);
}

```

```

34.#include <stdio.h>
void main()
{
char k[]="fhjkdjf";
char *s=k;
printf("%c",*++s);
printf("%c",++*s);
printf("%c",++*--s);
printf("%c",++*s);
}

```

```

35.#include <stdio.h>
int main() {
    char p[] = "GOBLAL";
    int i = 0;
    while(p[i])
    {
        printf("%c", ++*(p+i));
        i++;
    }
    return 0;
}

```

```

36.#include <stdio.h>
#include<string.h>
int main() {
    char m[]="Programming";
    char *s=strstr(m,"gram")+4;
    printf("%s",s);
}

```

```

37.#include<stdio.h>
int main()
{
    char a[10]="ABC";
    char b[10]="abc";
    short int p[20],i,j=0;
    for(i=0;a[i];i++,j++)
    p[i]=a[i]|b[j]<<8;
    printf("%s",p);
}

```

```

38.#include<stdio.h>
int main()
{
    int p[]={4,3,2,1,5};
    char s[]="abc@5#8";
    for(int i=0;i<5;i++)
    printf("%c",s[p[i]]);
}

```

```

39.#include <stdio.h>
int main()
{
    short int a[]={ 'A','A','B','B','C' };
    char *b=(char*)a;
    *(b+1)=*a|32;
    *(b+3)=a[2]|32;
    printf("%s",a);
}

```

40. Write a program to remove duplicate elements in string.

Ex: I/p - "aabccccddedf"

O/p - "abcdef"

```
41.#include<stdio.h>
#include<string.h>
int main()
{
char s1[]="Glory\0";
char *p="win";
printf("%ld %d ",sizeof(s1),strlen(s1));
printf("%ld ",sizeof(p));
}
```

42. Write a program to find the number of times the given substring is present in a string.

```
43.#include<stdio.h>
#include<string.h>
int main()
{
char s1[20]="KIND";
char s2[20];
char*p=strstr(s1,"ND");
strncat(p,s1,3);
printf("%s",s1);
}
```

```
44.#include<stdio.h>
#include<string.h>
int main()
{
char *s = "Extraordinary";
char *p = s;
printf("%d", (int)strlen(p+3[p]-12[p]+13));
}
```

```
45.#include<stdio.h>
#include<string.h>
int main()
{
char str1[] = "dills";
char str2[20];
char str3[] = "Daffo";
int i;
i = strcmp(strcat(str3, strcpy(str2, str1)), "Daffodills");
printf("%d\n", i);
return 0;
}
```



```

46.#include<stdio.h>
int main()
{
if("\0")
printf("yes");
else
printf("no");
}

```

```

47.#include<stdio.h>
#include<string.h>
int main()
{
char *str1 = "CompSci";
char *str2 = "Bits";
char *str3= strcat(str1, str2);
printf("%s %s\n", str3, str1);
return 0;
}

```

48.What is the difference between between char*str="Hai" and char str[]="Hai".

```

49.#include <stdio.h>
int main() {
short int a[]={ 'a','b','c' };
char *p=(char*)a;
printf("%d",p[1]);
}

```

50.Write a program to find the smallest and largest word in a strong line.

Ex: I/p - "Perseverance goes a long way"

O/p - The largest word is "Perseverance" and smallest word is "a".