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SCTTCS

Technical Round

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We can't use any input functions like `scanf()`, `getch()`, `getchar()`.
The input to be provided should be

read as **command line**
arguments. 2

command line
arguments

```
int main(int argc, char *argv[])
```

COMMAND LINE ARGUMENTS IN C:

main() function of a C program accepts arguments from command line or from other shell scripts by following commands.

They are argc and argv[] where,

argc – Number of arguments in the command line including program name (integer).

argv[] – This is carrying all the arguments including program name (pointer array).

command line arguments

```
#include <stdio.h>
int main(int argc, char *argv[])
//command line arguments {
```

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```
printf("\n Program name : %s \n",  
argv[0]); printf("1st arg : %s \n",  
argv[1]); printf("2nd arg : %s \n",  
argv[2]);  
  
return 0; }
```

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command line arguments

• Properties of Command Line Arguments:

1. They are passed to main() function.
2. They are parameters/arguments supplied to the program when it is invoked.
3. They are used to control program from outside instead of hard coding those values inside the code.
4. argv[argc] is a NULL pointer.
5. argv[0] holds the name of the program.

6. `argv[1]` points to the first command line argument and `argv[n]` points last argument.

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PROGRAMS Program 1:

Factorial program in c using command line arguments.

Factorial of a non-negative integer n , denoted by $n!$, is the product of all positive integers less than or equal to n .

For example, The value of $5!$ is
 $5*4*3*2*1 = 120$

```
#include<stdio.h>
int main(int a, char *b[]) //command line
arguments
{
int x,i,f=1;
x=atoi(b[1]); for(i=1;i<=x;i++)
```

```
{  
f=f*i; }  
printf("%d",f); return 0;  
}  
//atoi function is to convert a character to  
integer
```

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Program 2:

Write a c program, to find the area of a circle when the diameter is given, using command line arguments.

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The input diameter is an integer
and the output area should be a
floating point variable with 2 point
precision

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```
#include<stdio.h>
#define PI 3.14
int main(int a, char *b[]) //command
line arguments {

int d;
float area =0;
d= atoi(b[1]);
area =(float) PI*(d/2)*(d/2);
printf("%0.2f", area); return 0;
}
```

%0.2f is to print the answer with 2 values after decimal point.

Program 3:

Write a c program, to check whether the given year is a leap year or not using command line arguments.

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A leap year is a calendar year containing one additional day (Feb 29th) added to keep the calendar year synchronized with the astronomical year.

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```
#include<stdio.h>
int main(int a, char*b[]) {
    Int year; year=atoi(b[1]); if(year%100==0){
    if(year%400==0)
    { printf("LEAP YEAR");
    else{ printf("NOT LEAP YEAR");
    } }
    }
    11
    }
    else if(year%4==0)
    { printf("LEAP YEAR"); else{ printf("NOT LEAP
    YEAR"); return 0;
    }
    }
```

Program 4:

Write a c program, to find the GCD of the given 2 numbers, using command line arguments.

The input is 2 integer and the output GCD also should be an integer value.

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```
#include<stdio.h>
int main(int x, char *y[]) {
inta,b,small,i;
```

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```
a=atoi(y[1]); b=atoi(y[2]);  
small=a>b?b:a; for(i=small;i>=1;i--)  
{  
if((a%i==0)&&(b%i==0)) {  
printf("%d",i); break;  
} }  
return 0; }
```

1) How many times the below loop will be executed?

```
#include<stdio.h> int main() {  
int x, y; for(x=5;x>=1;x--) {  
for(y=1;y<=x;y++) printf("%d\n",y);  
} }
```

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Options

1. 15
2. 11
3. 10
4. 13



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2) Which of the following indicate the end of the file?

- A. Feof()
- B. EOF
- C. Both feof() and EOF
- D. None of the mentioned



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3) If a function's return type is not explicitly defined then it's default to _____ (In C).

- A. int
- B. float C. void D. Error

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4) For passing command line argument the main function should be like

1. `int main(char *argv[], int argc)`
2. `int main(int argc)`

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- 3. `int main(char *argv[])`
- 4. `int main(int argc, char *argv[])`



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5) How many times the below loop will be executed?

```
#include<stdio.h> int main()
{
int i; for(i=0;i<5;i++) {
printf("Hello\n"); }
}
```

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Options

1. 5
2. 1
3. 0
4. 3



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6) Which of the following is a User-defined data type?

- A. long int
- B. double
- C. unsigned long int
- D. enum



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7) Which has the highest precision?

A. float

B. double

C. unsigned long int D. Long int



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Floating point types

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The following table provide the details of standard floating-point types with storage sizes and value ranges and their precision –

Type	Storage size	Value range	Precision
float	4 byte	1.2E-38 to 3.4E+38	6 decimal places
double	8 byte	2.3E-308 to 1.7E+308	15 decimal places
long double	10 byte	3.4E-4932 to 1.1E+4932	19 decimal places

8) Where the local variables are stored?

A. Disk B. Stack C. Heap D. 13



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9) What is dangling pointer?

1. Points to garbage value
2. Points to function
3. Both A and B
4. None of these



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10) How to release the dynamically allocated memory?

A. free()

B. truncate() C. delete() D. release()



11) `int main(int argc, char **argv)`
comment about: `char **argv`

1. Pointer to pointer
2. It is the file name and arguments passed
3. it is an array of character pointers
4. Compile time error

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12) Predict the output

```
int main()  
{
```

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```
float x = 0.1; If(x==0.1) printf("yes");  
else printf("no"); return 0;  
}
```

Output: _____ Ans: no

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13) What is the similarity between enum and struct?

1. Can assign new values
2. Can create new data types
3. Nothing in common
4. They are same



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14) What is recursion?

A. Looping

2. A function calls another function repeatedly
3. A function calls repeatedly
4. Function calls itself repeatedly



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