

C Quiz 09 (12-12-2023)
2D Array, Array of Pointers, Command Line

1. if i/p is given as
<programname> monday tuesday wednesday
what will be the o/p

```
#include<stdio.h>
int main( int argc, char* argv[])
{
    int i=1;
    printf("%c",++*argv[i]);
    return 0;
}
```

Answers

1. o

2. n

3. t

4. u

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

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

Answers

1. 1 1 2 3 3 2 4 4

2. 1 1 2 3 3 2 0 0

3. 1 2 2 3 3 3 4 4

4. 1 1 3 3 3 2 4 4

3. What will be the output?

```
#include <stdio.h>
void main() {
    int a[2][3] = { 1, 2, 3, 4, 5 };
    int i = 0, j = 0;
    *a[0] = 2;
    *a[1] = 3;
```

```

        for (i = 0; i < 2; i++)
            for (j = 0; j < 3; j++)
                printf("\t%d", a[i][j]);
    }

```

Answers

1. 2	2	3	3	5	0
------	---	---	---	---	---

2. Compile Time Error

3. 1	2	3	4	5	2
------	---	---	---	---	---

4. 2	2	3	3	5	3
------	---	---	---	---	---

```

4. #include<stdio.h>
#define COL 3
#define ROW 3
int main(void)
{
    int arr[ROW][COL] = {{10,20,30},{11,22},{111}},i,j;
    for(i=0; i<ROW; i++)
        for(j=0; j<COL; j++)
            printf("%d",arr[i][j]);
    return 0;
}

```

Answers

1. Compile time error

2. Run time error

3. Prints Array Elements

4. Prints array elements

5. If following program having name cmdline is run from the command line as `./a.exe PG-DAC PG-DMC PG-DESD PG-DBDA` then what would be the output?

```

#include<stdio.h>
int main(int argc, char *argv[])
{
    while (*argv != NULL)
        printf("%c \t", ++*(argv++));
    return 0;
}

```

Answers

1. PG-DBDA PG-DESD PG-DMC PG-DAC a.exe

2. /	Q	Q	Q	Q
------	---	---	---	---

3. /	P	P	P	P
------	---	---	---	---

4. PG-DBDA	PG-DESD	PG-DMC	PG-DAC
------------	---------	--------	--------

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

```
#include <stdio.h>
int main(void)
{
    int arr[3][2]={1,2},{1},{5}};
    int i,j;
    int *ptr=*(arr+2);
    printf("\n %d",*++ptr+1);
}
```

Answers

1. 1

2. 0

3. Garbage

4. Complietime error

7. If following program having name cmdline is run from the command line as

`./a.exe Sunbeam Hinjewadi Precat Marketyard`

then what would be the output?

```
#include<stdio.h>
int main(int argc, char *argv[],char * envp[])
{
    int index;
    for(index=0; index<argc; ++index){
        printf("\n%s",envp[index]);
    }
    return 0;
}
```

Answers

1. List of all en variables

2. List of all en variables according to argument count

3. cannot have more than two arguments in main() ie. Compile Time Error

4. Run time error

8. What will be the output?

```

#include<stdio.h>
#define ROW 0
#define COL 0
int main(void) {
char arr[][12] = { "SunBeam", "Pune", "Karad", "Hinjawadi" };
printf(" %s - %c", (*(arr + ROW) + COL), (*(arr + ROW + 2) + COL));
    printf("\n %s - %c", (arr[ROW + 2] + COL), (arr[ROW + 3][COL]));
    return 0;
}

```

Answers

1. SunBeam - K Karad - H

2. Run Time Error

3. SunBeam - P Hinjawadi -

4. Compile Time Error

9. If following program having name cmdline is run from the command line as
 ". /a.exe Sunbeam Hinjewadi Marketyard Pune"

```

#include<stdio.h>
int main(int argc, char *argv[],char *envp[])
{
argc--;
while(argc)
{
printf("%c ", argv[argc--][3]);
}
return 0;
}

```

Answers

1. e k j b

2. u a i u

3. n r n n

4. e e e

10. What will be the o/p of the following program if i/p is given as

<programname> monday tuesday wednesday

```

#include<stdio.h>

```

```
int main( int argc, char* argv[])
{
    int i =0;
    for (i = 0; i < argc; ++i)
    {
        printf("%s\n",argv[i]);
        argv++;
    }
    return 0;
}
```

Answers

1. programname wednesday
2. programname tuesday

3. Runtime Error

4. programname monday

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

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