A. Jones Mervin

AVIN SYSTEMS

C - questions:

1. macro

2. Bit - field structure

3. int main()
{
int a = 299; int c;
int b = 99;

if (a > b)
{
return c = return 299;
}
else
{
c = return 99;
}
} printf (a, b, c);

find output: same question 2 - diff output

4. while(1) & while (1+9+1) which one is faster?

5. Functions

6. Find LCM Logic

7. Switch case

8. const pointer
   pointer const concept

9. enum

10. key word used to skip the iteration in for loop

Aptitude questions:

1. odd man out
2. number series
3. Average
4. percentage
5. Ratio
6. profit and loss

AVIN Systems. M. Karthikeyan.

Aptitude.

1. Series questions. 1 8 27 64 __ 216 (1)
2. Find odd one out (1)
3. Pipes and pisten (1)
4. Average (1)
5. Speed and distance (1)
6. A B Z C F Y E G X B H W I I V __
7. Ratio (1)
8. Percentage (1)

English.

1. Describe your experience in college.
2. Describe yourself.

C program.

1. while(1) while (1+5+3) which is faster?

(a) while (1)
(b) while (1+5+3)
(c) both are same
(d) Depends on compiler.

2. Which keyword is used to skip iteration in the for loop?

(a) break (b) continue (c) exit (d) none.

(3) MACRO Question (1)

(4) Bitfield structure (1).

(5) A function Question but the return statement looks like this.

```
if( )
    c = return ( a)

else
    c = return (b)
```

ans (a) 299, 291, 99 (b) 299, 99, Garbage value,
option (c) Compilation error. (d)

(6) Switch case.

(7) enum

(8) Constant string (9) pointer constant Question.

(9) Array Question.

C

Avin

① int main()
{
int num1 = 299, num2 = 99;
int value;
if (num1 = 299)
val = return num1;
else
val = return num2;
}

~~write~~ output of this code / what will happen

---

② There are 4 options which is 4 different programs for finding LCM, you should select the Correct working logic

---

③ Struct tag-name
{
};

what is the size of the Structure ?

---

④

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Aptitude

1. Average
2. Ages
3. Number Series ↓ Completion
4.

English : Skills

1. Write in 10 Sentences about your College experience
2. How do you describe yourself

Aviva

FLAKKIYA . G.

APPTITUDE

1. TIME AND DISTANCE
2. PERCENTAGE
3. TANK SUM
4. RATIO
5. AGE
6. NUMBER SERIES
7. IAB, JAC, KAD, ——
8. ODD MAN OUT

C APPS:

1.
```
switch (choice)
{
case 1 : printf ("yes");
case 2 : printf ("NO");
default : printf ("yesNO");
}
```

2. bit field
3. which keyword is used to exit the for loop?
4. logic for LCM
5. Disadvantages of Arrays
6. while(1) and while (1+2+3) which one is faster?
7.
```
#define PNR 100
int main ()
{
  printf ("%d" PNR);
  #define PNR 50
3 Printf ("%d" PNR);
```

8. static, extern concepts

9. infinite loop program.

10. Constant pointer

1.
```
int main()
{
    int x = 1;
    switch (x)
    {
    case 1:
        printf("Hello\n");
    case 2:
        printf("Hai");
    default:
        printf("Default");
    }
```

what will be the output.

2.
```
int main()
{
    structure name
    {
    };
    structure name s[10];
    printf("%d", sizeof(s));
    return 0;
}
```

what will be the o/p

a. 0
b. 4
c. 8
d. 0

3.

```
int main()
{
  static int x = 10;
  printf("%d", x--);
  IF(x)
   main();
}
```

what will be the output?

4. Logic for LCM (for finding LCM)

5.

```
int main()
{
  union data
  {
    char a;
    char b;
    int c;
  };
  union data emp;
      emp.a = 3;
      emp.b = 2;
  printf("%d", emp.a);
  printf("%d", emp.b);
  printf("%d", emp.c);
}
```

What will be the output.

Alphy Jose

Interview questions of Avin Systems.

Tech Interview

* self Introduction
* Explain the projects done
* what is the purpose / role of programming
* why c ?
* Conditional operators & bitwise operators
* Swap two variable without using temp variable
* difference between while and do while
* Father of c ?

HR Interview

* self Introduction
* knowledge about the company.
*

Name :- Varun S.T

Avin System. Que

(1)
```
#include<stdio.h>
int main()
{
  int arr[3], i=0;
  arr[i] = i++ + ++i;
  Printf("%d\n", arr[i]);
}
```

Option :- a) 2
b) Garbage value
c) error
d) ~~none~~ ○

(2)
```
#includ<stdio.h>
int main()
{
  int k, a=2;
  if(a==2)
  {
   k = return 1;
  }
  else
  {
   k = return 0;
  }
  Printf("%d, %d\n", a, k);
}
```

Option :-
a) Compilation error
b) 2, Garbage value
c) 2, 1
d) none

(3)
```
#include<stdio.h>
int main()
{
  Printf("%d\n", -1<<4);
}
```

option) a) 88880

b) 88888

c)

d)

(4)
```
#include<stdio.h>
int main()
{
  char P[12] = "hello";
  Printf("%s\n", P+P[3]-P[0]);
}
```

options :- a) ello

b) error

c)

d)

(5) which while loop executes faster.

a) while(1);

b) while(6+5+2)

options :- 1) a)

2) b)

3) both same

4)

```
int main()
{
    int i
    switch(1)
    { Case 1 : Printf("hello");
      Case 2 : Printf("how");
      Case 3 : Printf("are");
      Default : Printf("you");
    }
}
```

Option :-

(a) hello
(b) hello how are you
(c) error
(d) You.

(7)

Arun

Name:- Sd. Shukur.

① ~~Appt~~

* Aptitude:

1) Clocks (1)
2) percentage (2)
3) Numbers Systems
   - → odd man out (1)
   - → next series. (1)
4) Averages (
5) Age (2)
6) Time & work.
7)

English:

1) write about yourself?
2) write about your College experience?

* C-language:

1) Bit wise operators
2) Structure
   - → union
   - → enum
3) Pre-Processor
4) Strings
5) LCM program. (o/p)
6) Switch Case program..
7) Storage class
   - → Static
   - → extern.
8) Arrays. (demerits)

1) Bit-field is only used for structure?

a) True b) False c) Varies d) none.

2) which key word is used stop the Current Iteration and start again that loop?

a) break b) Continue c) return d) none.

3) find out the output of below programs:

```
Struct node
{

};

Int main()
{
    Struct node arr[10];
    printf("%d", sizeof(arr));
}
```

a) 0 b) 10 c) 4 c) none.

4)

```
Int main()
{
    Int k=5;
    Int *p = &k;
    Int **m = &p;
    k++;
    Pf("%d %d %d", k, p, m);
}
```

a) 6 5 5

b) 5 5 5

c)

d)

```
main()
{
extern int a;
a=20;
Pf("%d", a);
}
```

a) linkage error
b) 20.
c) compiled error
d) Garbage value.

6)
```
int main()
{
static int a=10;
if (a == 10)
    Pf("equal");
else
    Pf("not equal");
}
```

a) equal b) not equal.

7) enum question.

```
enum = {pink=0, black=1, green=5, grey}
Pf("%d", grey);
```

a) 0 b) garbage value c) 6 d) none.

8)

Pooja. K.

Avin Systems

① English Skills

① describe yourself.
② College Experience.

② Aptitude questions (20 questions)

① Number Systems (odd man out, next Series) (2) (1)
② Percentage. (2)
③ average (2)
④ Pipes (1)
⑤ Age (2)
⑥ clocks (1)
⑦ Time and work (3)

③ C Programming questions (25 questions)

① bitwise operators (3)
② Structure, unions, Enums (4)
③ macro | Pre-processors (2)
④ String
⑤ LCM Program (1)
⑥ Switch Case → find out the Correct Syntax.
⑦ TRUE | FALSE Condition about bitfield and array.

① which one of the following Statement is true about array ?

① array size is fixed.

② array is can't modified during run time.

③ all of the above.

② which keyword is used for exiting the current iteration for loop ?

break, continue, Exit, return

③ Order of associativity

④ Post / Pre Increment or.

⑤ which will running faster. ?

① while (1)
{
};

② while (1+2+3)
{
};

⑥ Storage classes :- Extern, static. [4]

① Int main ()
{
Static Int x = 10;
If (x == 10)
Pf ("Equal \n").
Else.
Pf ("not Equal \n");
}

dout the o/p ?

```
main ()
{
    extern int x;
        x = 10;
    pf("%d", x);
}
```

① linkage error
② Garbage value.
③ 10
④ Compiler error

③ Int main ()

```
{
  pf ("%x", -1 << 3);
}
```

① fff8
② fff0
③ -1
④ Garbage value.

④ Concepts of array pointer and Constant pointer

Sushil Kumar Pradhan

Avin Systems

Round-2

1. Tell me about yourself?
2. Explain your 4th year project?
   - → Technology used
   - → Role of me in that project
   - → Explain with block diagram whole project?
   - → Future scope of your project?
3. (*) Rate yourself in C?
1. Define Macro?
   Write in one line macro defination for finding max of two numbers
2. Difference between structure and union?
   state key differences! (size)

```
structure student
{
    int a;
    int b;
    char c;
    char d;
    int g;
};
```

Size of structure=?

```
union stud
{
    int name;
    char name[50];
    int n;
    char arg[50];
};
```

Size of union.

How size of structure changes! (structure padding concept)

3. Print the Pattern? After solving dry run ~~the~~ your code

```
        *
      * *
    * * *
  * * * *
* * * * *
```

(4) Sorting Algorithms
Explain with example Quick Sort

(5) Scope of global variables and local variables? give example?

(6) Define static keyword? give example?

(7) Can we declare global variables ~~with~~ as static what will be the scope of such declaration? Give example.

(8) what are storage classes? Explain with examples each storage class?

(9) what is volatile? explain with example?

~~Can we declare~~

(10) what is const? Can we declare volatile const?

(11) what is structure pointer? Give sample code for explaining structure pointer?

(12)

Avin Systems.

M. Karthikeyan.

Technical HR.

1) WAP to find greatest of 3 nos using ternary operato
2) WAP to print pattern.

```
        1
      2   3
    4   5   6
  7   8   9   10
```

3) Storage classes. (Concentration for Register values is more)
   - Scope and life.
   - Default values.
4) Data types
   - Size of datatypes
5) Define structure. & Union.
6) difference b/w structure & array.
7) Memory allocation of structure and union.
8) Microcontroller 8051.
9) Difference b/w Microprocessor and Microcontroller.
10) College mini projects.
11) Do You had a experience in CAN Protocol.
12) Do you had a experience in OSI layers / Projects done in OSI layer.

Name: Megha Bhirode Company: Avin systems

English Test

1. Explain about your college life expirence
2. Discribe your self.

Apptitude questions

1. Average – 2 questions
2. Clock → 1 question
3. Percentage → 1 question
4. logical coding → 1 question
5. Pipe → 1 question
6. number series (odd man out) – 2 questions
7. number series (next number) – 2 questions
8. Ages → 1 question
9. Profit & loss → 1 question
10. Combination → 1 question
11. Area → 1 question
12. Sentence forming

C questions

1.
```
struct employ
{

};
int main()
{
    struct employ s[10];
    printf("%d", sizeof(s));
}
// 0
```

2. which key word used to come out from iteration of for loop.
   → break

③ Bit fields only used in structures

→ false (both in structure & union)

④
```
int main()
{
int a=1
switch(a)
{
case 1:
  Ptf ("yes");
case 2:
  Printf ("NO");
default;
  Printf ("default");
}
```

o/p → yes no default

⑤
```
#define X 10
int main()
{
#define X 50
printf("%d", X);
#define X 100
printf("%d", X);
}
```

⑥
```
int main()
{
enum {Green=0, White=4, Black, Pink};
Printf ("%d", Pink);
}
```

6

Chandra Thomas

Interview Questions - Avin Systems

1) Main project - description
2) Mini project - description, Relevance
3) Out of 10 how much marks you give for yours C-knowledge
4) Datatypes - examples - while declaration - what all happening - mly - allocation
5) storage classes - examples
6) structure - syntax - detailed questions happend
7) union - syntax
8) differences blw structure and union
9) Bitfields
10) program to write multiplication table for numbers 1 to 10
11)
```
1
1 2
1 2 3
```
print this pattern
12) Types of linked list
13) Stack
14) Queue - types of Queue
15) difference blw stack and array
16) ~~Highest~~ mly of union members.

C