MBT Sample Paper
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1. #include <stdio.h>
 * What is wrong in the following problem

```
main() {
int i,j;
j = 10;
i = j++ - j++;
printf("%d %d", i,j);
}
ans: 0, 12
```

2.#include <stdio.h>
 * What is the output of the following problem
```
main() {
int j;
for(j=0;j<3;j++)
 foo();
}
foo() {
static int i = 10;
i+=10;
printf("%d\n",i);
}
```

```
/*  Out put is   (***since static int is used i value is retained between
 *  20          function calls )
 *  30
 *  40
 *
/
```

3.#include <stdio.h>
#include <stdio.h>
#include <string.h>
/* This is asked in PCS Bombay walk-in-interview

```
 * What is wrong in the following code
 */
main()
{
  char  *c;
  c = "Hello";
  printf("%s\n", c);
}
/*ans:- Hello,  The code is successfully running  */
```

4. #include <stdio.h>
```
/* This problem is given in PCS BOMBAY walk-in-interview.
 * What is the final value of i and how many times loop is
 * Executed ?
 */

main()

{
  int i,j,k,l,lc=0;
  /* the input is given as 1234 567  */
  printf("Enter the number string:<1234 567 >\n");
  scanf("%2d%d%1d",&i,&j,&k);
  for(;k;k--,i++)
  for(l=0;l<j;l++) { lc++;
  printf("%d %d\n",i,l);}
printf("LOOPS= %d\n", lc-1);
}
/*  Ans:  i = 16, and loop is executed for 169 times */
```

5.#include <stdio.h>
```
/* This is given in PCS Bombay walk-in-interview   */
/* What is the output of the following program     */

main() {
     union {
            int a;
            int b;
            int c;
          } u,v;
     u.a = 10;
     u.b = 20;
     printf("%d %d \n",u.a,u.b);
    }
/* Ans :  The latest value assigned to any of the union member
        will be present in the union members so answer is
        20 20
```

```
*/
6.#include <stdio.h>
main()
{
  float i, j;
  scanf("%f %f", &i, &j);
    printf("%.2f %.3f", i, j);
}

/Ans:- 123.34 3. 234  */


7.#include <stdio.h>
/* This is given in PCS Bombay walk-in-interview
 * What is the out put of the following problem  ?
 */

main()
{
  char *str = "12345";
  printf("%c %c %c\n", *str, *(str++), *(str++));
}
/*  Ans:  It is not 1 2 3
 *      But it is 3 2 1 Why ??
 */


8.#include <stdio.h>
/* This problem is asked in PCS Bombay Walk-in-interview
 * Write a macro statement to find maximum of a,b
 */
#define max(a,b)  (a>b)?a:b
main()
{
  int a,b;
  a=3;
  b=4;
  printf("%d",max(a,b));
}
/* Ans is very simple the coding is just for testing it
 and output is 4 */


~
9.#include <stdio.h>
/* This problem is asked in PCS Bombay
 * What is the output of the following coding
 */

main()
```

```c
{
  int len=4;
  char *st="12345678";
  st = st -len;
  printf("%c\n",*st);
}
/* Ans : It will print some junk value */
~
10.#include <stdio.h>
main()
{
  func(1);
}
func(int i){
static char *str ={ "One","Two","Three","Four"};
printf("%s\n",str[i++]);
return;
}
/* Ans:- it will give warning because str is pointer to the char but
   it is initialized with more values
   if it is not considered then the answer is Two  */


11.
 #include <stdio.h>
main()
{
  int i;
  for (i=1;i<100; i++)
  printf("%d %0x\n",i,i);
}
/* Ans:- i is from 1 to 99 for the first format,
       for the second format 1to9, ato f, 10 to 19,1ato1f, 20 to 29, etc */



12.#include <stdio.h>
/*  This problem is asked in PCS Bombay walk-in-interview
 *  In the following code please write the syntax for
 *  assing a value of 10 to field x of s and id_no 101 of s
 */
struct {
        int x;
        int y;
        union {
              int id_no;
               char *name;
            }b;
      }s,*st;
```

```c
main()
{
    st = &s;
    st->x=10;
    st->b.id_no = 101;
    printf("%d %d\n",s..x,s.b.id_no);
}
/*  Ans: The answer is st->x=10;
 *              st->b.id_no=101;
 */
13.#include <stdio.h>
/*   This problem was asked in PCS Bombay in a walk-in-interview
 *   Write a recursive function that calculates
 *   n * (n-1) * (n-2) * ....... 2 * 1
 */

main() {
int factorial(int n);
int i,ans;
printf("\n Enter a Number:");
scanf("%d",&i);
ans = factorial(i);
printf("\nFactorial by recursion = %d\n", ans);
}
int factorial(int n)
{
  if (n <= 1)  return (1);
  else
   return ( n * factorial(n-1));
}

~
14.#include <stdio.h>
/* This problem is asked in PCS Bombay walk-in-interview
 * What is the output of the following problem
 */
main(){
int j,ans;
j = 4;
ans = count(4);
printf("%d\n",ans);
}
int count(int i)
{
 if ( i < 0) return(i);
 else
 return( count(i-2) + count(i-1));
```

```
    }

    /*  It is showing -18 as an answer */

    15.#include<stdio.h>
    main()
    {
     int i=4;
     if(i=0)
     printf("statement 1");
     else
     printf("statement 2");
    }
    /* statement 2 */
```

This is pcsb paper.

```
    1. #include <stdio.h>
     * What is wrong in the following problem

    main() {
    int i,j;
    j = 10;
    i = j++ - j++;
    printf("%d %d", i,j);
    }
    ans: 0, 12
```

```
    2.#include <stdio.h>
     *  What is the output of the following problem
    main() {
    int j;
    for(j=0;j<3;j++)
     foo();
    }
    foo() {
    static int i = 10;
    i+=10;
    printf("%d\n",i);
    }
```

```
    /*  Out put is   (***since static int is used i value is retained between
     *  20           function calls )
     *  30
     *  40
     *
```

/

```
3.#include <stdio.h>
#include <stdio.h>
#include <string.h>
/* This is asked in PCS Bombay walk-in-interview
 * What is wrong in the following code
 */
main()
{
  char  *c;
  c = "Hello";
  printf("%s\n", c);
}
/*ans:- Hello,  The code is successfully running  */

4.   #include <stdio.h>
/* This problem is given in PCS BOMBAY walk-in-interview.
 * What is the final value of i and how many times loop is
 * Executed ?
 */

main()

{
  int i,j,k,l,lc=0;
  /* the input is given as 1234 567  */
  printf("Enter the number string:<1234 567 >\n");
  scanf("%2d%d%1d",&i,&j,&k);
  for(;k;k--,i++)
  for(l=0;l<j;l++) { lc++;
  printf("%d %d\n",i,l);}
printf("LOOPS= %d\n", lc-1);
}
/*  Ans:  i = 16, and loop is executed for 169 times */

5.#include <stdio.h>
/* This is given in PCS Bombay walk-in-interview   */
/* What is the output of the following program     */

main() {
     union {
             int a;
             int b;
             int c;
           } u,v;
     u.a = 10;
```

```
        u.b = 20;
        printf("%d %d \n",u.a,u.b);
      }
/* Ans :  The latest value assigned to any of the union member
         will be present in the union members so answer is
         20 20
*/
6.#include <stdio.h>
main()
{
  float i, j;
  scanf("%f %f", &i, &j);
     printf("%.2f %.3f", i, j);
}
```

/Ans:- 123.34 3. 234 */

```
7.#include <stdio.h>
/* This is given in PCS Bombay walk-in-interview
 * What is the out put of the following problem  ?
 */

main()
{
  char *str = "12345";
  printf("%c %c %c\n", *str, *(str++), *(str++));
}
/*  Ans:  It is not 1 2 3
 *      But it is 3 2 1 Why ??
 */

8.#include <stdio.h>
/* This problem is asked in PCS Bombay Walk-in-interview
 * Write a macro statement to find maximum of a,b
 */
#define max(a,b)  (a>b)?a:b
main()
{
   int a,b;
   a=3;
   b=4;
   printf("%d",max(a,b));
}
/* Ans is very simple the coding is just for testing it
 and output is 4 */

 ~
```

```c
9.#include <stdio.h>
/* This problem is asked in PCS Bombay
 * What is the output of the following coding
 */

main()
{
  int len=4;
  char *st="12345678";
  for(i=0; i<6; i++)
  st = st -len;
  printf("%c\n",*st);
}
/* Ans : It will print some junk value */
~
10.#include <stdio.h>
main()
{
  func(1);
}
func(int i){
static char *str ={ "One","Two","Three","Four"};
printf("%s\n",str[i++]);
return;
}
/* Ans:- it will give warning because str is pointer to the char but
   it is initialized with more values
   if it is not considered then the answer is Two  */


11.
 #include <stdio.h>
main()
{
  int i;
  for (i=1;i<100; i++)
  printf("%d %0x\n",i,i);
}
/* Ans:- i is from 1 to 99 for the first format,
       for the second format 1to9, ato f, 10 to 19,1ato1f, 20 to 29, etc */



12.#include <stdio.h>
/*  This problem is asked in PCS Bombay walk-in-interview
 *  In the following code please write the syntax for
 *  assing a value of 10 to field x of s and id_no 101 of s
 */
struct {
```

```c
        int x;
        int y;
        union {
               int id_no;
               char *name;
            }b;
        }s,*st;
main()
{
   st = &s;
   st->x=10;
   st->b.id_no = 101;
   printf("%d %d\n",s.x,s.b.id_no);
}
/*  Ans: The answer is st->x=10;
 *               st->b.id_no=101;
 */
```

13.
```c
#include <stdio.h>
/*  This problem was asked in PCS Bombay in a walk-in-interview
 *   Write a recursive function that calculates
 *   n * (n-1) * (n-2) * ....... 2 * 1
 */

main() {
int factorial(int n);
int i,ans;
printf("\n Enter a Number:");
scanf("%d",&i);
ans = factorial(i);
printf("\nFactorial by recursion = %d\n", ans);
}
int factorial(int n)
{
  if (n <= 1)  return (1);
  else
   return ( n * factorial(n-1));
}

~
```

14.
```c
#include <stdio.h>
/* This problem is asked in PCS Bombay walk-in-interview
 * What is the output of the following problem
 */
main(){
int j,ans;
j = 4;
ans = count(4);
```

```
printf("%d\n",ans);
}
int count(int i)
{
 if ( i < 0) return(i);
 else
 return( count(i-2) + count(i-1));
}
```

/* It is showing -18 as an answer */

```
15.#include<stdio.h>
main()
{
 int i=4;
 if(i=0)
 printf("statement 1");
 else
 printf("statement 2");
}
```
/* statement 2 */

This is pcs pune.

 1. Men in the order type - Eswar Rao
 2. Optional
 3. Latter
 4. Cease

5. There r 3 boys 7 4 girls; Howmany ways they r arranged
   such that boys should be always together ???

   (Ans: 240

6. If n.....; What is the max no that divides

   (Ans: 8)

7. A,B,C,D has values from 0 to 9.... What is D ?

 (Ans: 6)

8. A wodden piece taken which is in shape of Triangle ,
   of 10 X 24 X 26 ; Then cut at some ..... which is rearranged
   in rectangle format; so what is ...

(Ans: 5)

9. There r 5 numbers. The average is 25; the highest value
   excluded then average is 25, if the lowest is excluded the avg is ..
   Then average of remaining is ?

   (Ans: 30)

10. The square is cut such that the end point of one side is
    shown in fig.. This is repeated two times, what is the area ??

    (Ans: 3.61)

11. The route problem... what is the shortest rout to p1 to p2...
    (There may be circle figure......)

   (Ans: From p1 to 0 & form 0 to p8)

12. Two motor cycles A & B are started from one point at
    4 Kmph & 6 Kmph; After 45 min B starts returning , at what
    time they will reach....

   (Ans: 3.6 km)

13. All integer from 0 to 9, what is the smallest no perfectly devides;

  (Ans: c)

14. Some figure (Triangle in a rectangle)..... What is perimeter
if triangle

  (Ans: 20)