

pseudocode questions

Predict the output of the following pseudocode if the value of the number is 6

Read number

k = 2

i = 2

while i <= number

 k = k * i

 i = i + 1

end while

write k

Predict the output of the following pseudocode

```
Set Integer res = 0
```

```
do
```

```
    --res
```

```
    display res
```

```
    res ++
```

```
while (res >= 0)
```

```
End do-while
```

Predict the output of the following pseudocode

```
Set value = ' ' * 10
```

```
print value
```

What happens when the below pseudocode is executed?

Set integer value = 10

Set integer salary = 0

while (value = 10)

 salary = salary + 100

 display salary

End while

Count the number of “#” printed

```
for m = 0 to 14 do
    for n = 0 to 14 do
        display '#'
    End-for
    if(m = 5) then do
        break
    End-if
End-for
```

What will be the output of the following pseudo code if $n = 10$?

```
Read n
Initialize i to 5, sum to 0
while i < n do
    increase sum by i
    increment i
end while
write sum
```

What will be the output of the following pseudo code for $i = 140$?

```
integer fun(int i)
if((i%2)!=0)
return i;
else
return fun(i+1);
End function fun()
```


What will be the output of the following code?

```
#include<stdio.h>
int main()
{
int x=2,y=0,z=3;
x>y ?( printf("%d", z)):( return z);
}
```

What will be the output of the following pseudocode ?

Integer a, b, c, d, e

Set a=50 , b=3, c=3 e=0

while(c>0)

d=a mod b

e= e + d + a

c= c - 1

End while

Print e

What will be the output of the following?

```
for (i = 1; i <= 6; i++)  
  for (j = i; j < 6; j++)  
    Print blank space  
    for (k = 1; k < (i * 2); k++)  
      Print *  
    End for  
  Line break  
End for  
End for
```

What will be the output of the following?

```
Start
Declare a=0, l and b
for l =0 to 4
Increment a by 1
if l = 3 then
print hello
get out of the loop
End if
End for
print a
```

What will be the output of the following? If we pass input as $a = 25$, $a = 16$

```
integer a
```

```
if((a mod 10) IS EQUAL TO 0)
```

```
  a=a*2
```

```
else if((a mod 5 ) IS EQUAL TO 0)
```

```
  a=a/5
```

```
else
```

```
  a=a-1
```

```
end if
```

What will be the output of the following?

```
integer a, b;  
Set a=2; b=50;  
while(b>0)  
    a = b%2 + a;  
    if( a MOD 2 Is Equal To 0)  
        Print a  
    else  
        Print b-1  
    b = b/5  
    a=a+1  
End while
```

What will be the output of the following?

Integer x, y, z, a

set x = 2, y= 1, z = 5

a= (x AND y) OR (z + 1) // bitwise

print a

What will be the value of the following pseudo code if the value of the n is 35

```
read n
```

```
i = 0
```

```
while n%10 != 0
```

```
n = n+3
```

```
i++
```

```
end while
```

```
n = n + 1
```


What will be the value of the following pseudocode?

Integer a, p

Set a = 5

a = a+1

a = a*2

a = a/2

p = a/5 + 6

Print p

What will be the value of the following pseudocode?

Integer a, b, c

Set a = 4, b = 5, c = 3

b = 3+c

a = b & a

c = c + b

a = a + b

print a + b + c

What will be the value of the following?

Integer p

String str1

Set str1 = "Infosys"

p = stringLength(str1)

Print (p^1)

What will be the value of the following?

Integer x,y, z

Set x = 8, y = 6, z = 12

If (z < x OR (x + y) > (y-x))

 x = 6 + y

Endif

Print x + y + z

What will be the output of the following?

```
Set p = 6, q = 9
```

```
r = p<<1
```

```
p = r<<1
```

```
print p + q + r
```

What will be the output of the following?

```
Integer val  
Set val = 10  
do{  
  val - -  
  - - val  
} while (val - - >10)  
Print val
```

What will be the output of the following?

```
#include<stdio.h>
int main()
{
int i = 5, j = 4;
if(!printf(""))
printf("%d%d",i,j);
else
printf("%d%d",i++,++j);
return 0;
}
```

What will be the output of the below code when 1 is entered?

```
#include <stdio.h>
int main() {
    int ch;
    printf("Enter the value between 1 to 2");
    scanf("%d",&ch);
    switch(ch, ch+1){
        case 1: printf("1\n"); break;
        case 2: printf("2"); break;
        default: printf("3");}
    return 0;
}
```


What will be the output of the below code?

```
#include <stdio.h>
int main () {
char ch;
if(ch= printf(" ")){
    printf ("%d", ch);
    printf ("no output");}
else{
    printf("output");}
return 0;
}
```

What will be the output of the below code?

```
#include<stdio.h>
int main()
{
    int i = 25;
    if(i == 25);
        i = 50;
    if(i == 25)
        i = i+1;
    else
        i = i+2;
    printf("%d",i);
    return 0;
}
```

What will be the output of the below code?

```
#include <stdio.h>
#define FALSE -1
#define NULL 0
#define TRUE 1
int main () {
    if(NULL)
        printf("NULL");
    else if(FALSE)
        printf("TRUE");
    else
        printf("FALSE");
    return 0;
}
```

What will be the output of the below code?

```
#include <stdio.h>
#define hello
int main()
{
    #ifdef hello
    #define hi 4
    #else
    #define hi 5
    #endif
    printf("%d", hi);
    return 0;
}
```

What will be the output of the following code?

```
import static java.lang.System.*;
class _a
{
    static public void main(String[] __A_V__)
    {
        String $ = "";
        for (int x =0; ++x<__A_V__.length;)
            $ += __A_V__[x];
        out.println($);
    }
}
```

And the command line: java _a - A .

What will be the output of the following pseudocode?

```
#include <stdio.h>
int main()
{
    int p=15, q=6, r= 4;
    q = !p;
    r != !!p;
    printf("%d%d",q,r);
    return 0;
}
```

What will be the output of the following pseudocode?

Start

Integer p, q, r

Set $p = 0$, $q = 8$, $r = 4$

For each r from 5 to 8

 Set $q = 5 + 12 + p$

 If $(r - q - p) < (3 - r)$ Then

 Set $p = q + p$

 Else

 Set $q = p$

 End If

End For

Print $p + q$

End

What will be the output of the following pseudocode? If the value of $p = 5$, $q = 10$, $r = 15$

```
void fun(Integer p, Integer q, Integer r)
```

```
  p = p >> 1
```

```
  q = q >> 1
```

```
  r = r >> 1
```

```
  p = p >> 1
```

```
  q = q >> 1
```

```
  r = r >> 1
```

```
  Print p+q+r
```

```
End function fun()
```


What will be the output of the following pseudocode?

```
Integer p,q,r
Set p=1, q=5, r=10
if((r-q+p) > (p+r))
    p=q+p
End if
if((r-7)< (7+r))
    p=(r+r)+p
    r=p+q
End if
Print p+q+r
```

What will be the output of the following pseudocode for $a = 4$, $b = 4$, $c = 7$?

```
Integer myfun(integer a, integer b, integer c)
    for(each c from 3 to 5)
        a = (c + c)^b
        if((a+c) < (c+a))
            b = (a + 11) + c
        else
            c = b+b;
            a = 3 + b
            continue
        endif
    End for
    Return a + b
```

What will be the output of the following pseudocode for $a = 7$, $b = 4$?

```
integer myfun(integer a, integer b)
integer c
set c = a +a +b+b
b = c +c +b+b
a = b-a
return a + b
end function myfun()
```

What will be the output of the following code ?

```
#include <stdio.h>
int main()
{
    int a = 1, b = 2;
    a += b -= a;
    printf("%d%d", a, b);
    return 0;
}
```

What will be the output of the following pseudocode ?

```
integer a,b,c
set a = 0, b = 1, c = 2
if(b^c || a&b || a>>1)
c = 9
a = b+c
else
c = 1
a = a+c
endif
print a+b+c
```

What will be the output of the following pseudocode for $a = 2$,
 $b = 6$?

```
integer myfun(integer a, integer b)
```

```
if (a>0)
```

```
  if(b>0)
```

```
    return a+b+myfun(a+1, 0)+ myfun(a+2,0) + myfun(a+3,0 )
```

```
  endif
```

```
endif
```

```
return a+b
```

```
end function myfun()
```

What will be the output of the following pseudocode ?

```
integer p, q, r
```

```
set p = 3, q = 1, r = 2
```

```
if (p+ (2&2&2) AND q+(3&3&3) AND r+(2^2^2))
```

```
    p = p-2
```

```
    q = p
```

```
else
```

```
    P = r
```

```
    q = q^2
```

```
end if
```

```
print p +q +r
```

What will be the output of the following code?

```
enum A{one=1, two=9, three };
enum B{dog =1, cat, bird};
int main()
{
enum B x = bird;
enum A y = three;
x<<=3;
printf("%d",x^y);
return 0;
}
```


What will be the output of the depicted pseudo code for $a = 6$, $b = 4$ and $c = 6$

```
integer myfun(integer a, integer b, integer c)
    for (each c from 3 to 6)
        b = c+b
    end for
return a+b
```

What will be the output of the following pseudocode if str1 = INFOSYS, a = 0, b = 6?

```
void fun(char str1, int a, int b)
```

```
    char temp
```

```
    temp = str1[a]
```

```
    str1[a] = str1[b-a]
```

```
    str1[b-a] = temp
```

```
    if (a Equals (b/2))
```

```
        return
```

```
    end if
```

```
    fun(str1, a+1, b)
```

```
end function fun()
```

What will be the output of the following pseudocode?

```
integer x, y, z
```

```
x = -3, y = 0
```

```
if(y-2<2)
```

```
    for(each z from 0 to (3-2))
```

```
        x = x +(y-3)
```

```
    end for
```

```
end if
```

```
if(1)
```

```
    for (each z from 0 to (3-2))
```

```
        x = x+(y+5)
```

```
    end for
```

```
end if
```

```
print x +y
```

What will be the value returned by given function if $n = 10$?

```
int sum(int n)
{
    if(n !=2)
        return n+sum(n-2);
    else
        return n ;
}
```

What will be the output of the following pseudocode?

Integer b,c, d,e, f

C = 22, d = 52, e = 13

For(each b from 1 to 3)

 f = (c+d)/e

 if(f%13 ==0)

 e = ((e+f)-(c-10)) + b

 else

 d = d+b+f

End for

Print e, d

What will be the output of the following pseudocode?

```
integer j
integer arr[4] = {3,1,4,2}
if((arr[2] & arr[0]& arr[3])<(6-arr[3]-arr[2]))
    arr[1] = (arr[0]+5) + arr[0]
end if
if((arr[0]+ arr[3])< arr[3])
    arr[2] = 5+arr[1]
end if
arr[2] = (arr[3] +4) + arr[3]
print arr[0] + arr[2]
```

What will be the output of the following pseudocode?

```
integer j
integer arr[4] = {1,2,3,5}
arr[2] = (arr[1]& arr[0]) &arr[0]
for(each j from 4 to 5)
  arr[j mod 3] = (arr[3]+3)+arr[2]
  arr[j mod 3] = 4 + arr[1]
end for
print arr[2] + arr[3]
```

What will be the output of the following pseudocode for $a = 1$, $b = 2$?

```
integer myfun(integer a, integer b)
if(a<3 and b<4)
return myfun(a+1, b +1)
else
return a+b
end if
end function myfunction ()
```


What will be the output of the following code?

```
int m = 2, c = 1;
int n, a, b, limit = 10;

while (c < limit)
{
    for (int n = 1; n < m; ++n)
    {
        a = m * m - n * n;
        b = 2 * m * n;
        c = m * m + n * n;
        if (c > limit)
            break;
        printf("%d %d %d", a, b, c);
    }
    m++;
}
```

What will be the output of the following pseudocode for input a =30, b =60, c =90?

Integer a, b, c, sum

Read a, b, c

Set sum = a + b + c

if ((sum EQUALS 180) and (a NOT EQUALS 0) and (b NOT EQUALS 0) and (c NOT EQUALS 0))

 Print " Success"

otherwise

 Print "Fail"

End if

What will be the output of the following pseudocode?

```
BEGIN
SET a = 10
  IF (a++ > 10) THEN
    PRINT "true"
  END IF
  PRINT "false"
  PRINT "ABC"
END
```

Predict the output of the following pseudocode
if $p = 15$ and $q = 4$

Integer solve (Integer p, Integer q)

Integer value

while(q)

 value = $p \text{ MOD } q$

$p = q$

$q = \text{value}$

End while

return p

End function solve ()

What will be the output of the following pseudocode?

Integer p, q, r, s

Set p = 4, q = 2, r = 1

s = (p AND q) OR (r + 1) // bitwise operator

Print s

What will be the output of the following program?

```
void main( )
{
    int i = 5, j = 2 ;
    junk ( i, j ) ;
    printf ( "\n%d %d", i, j ) ;
}

junk ( int i, int j )
{
    i = i * i ;
    j = j * j ;
}
```

What will be the output of the following code?

```
int main(){  
    int c = 5, no = 1000;  
    do  
    {  
        no /=c;  
    } while (c--);  
    printf("%d\n", no);  
    return 0;  
}
```

What will be the output of the following code?

```
int main()
{
    int i = 7 , *j, k;
    j = &i;
    printf("%d\n", i * *j * i + *j);
    return 0;
}
```


What will be the output of the following pseudocode?

```
BEGIN
  INTEGER p, q, r
  SET p = 2, q = 5
  q = p + q
  FOR r FROM q TO 8 DO
    q = p * 2
  END FOR
  IF p > q AND 2 > 2 THEN
    q = 0
  ELSE
    q = 1
  END IF
  PRINT p + q + r
END
```

What will be the output of the depicted pseudocode ?

```
integer pp, qq, rr
set pp = 9, qq = 6, rr = 5
if(pp>qq && (rr+qq)<(qq-rr))
    rr = (4+5) +pp
if((rr&7&qq)>(7&rr))
    pp = (rr+pp)^rr
Else
pp = rr
End if
    Else
rr = qq+rr
End if
rr = 12 + qq
print pp +qq + rr
```

What will be the output of the following pseudocode for input 7?

1. Read the value of N
2. Set $m = 1$, $T = 0$
3. If $m > N$
4. Go to line no.9
5. Else
6. $t = t + m$
7. $m = m + 1$
8. Go to line no. 3
9. Display the value of T
10. Stop

What will be the output of the following code?

```
#include <stdio.h>
int x = 0;
int f() {
    if (x == 0)
        return x + 1;
    Else
        return x - 1; }
int g() {
    return x++; }
int main()
{
    int i = (f() + g()) | g(); //bitwise or
    int j = g() | (f() + g()); //bitwise or
    printf("%d",j);
}
```

What will be the output of the following pseudocode ?

```
// value for k = 3 and j = 4
```

```
Integer myfunc(integer k, integer j)
```

```
if(k equals 1 OR k equals 0)
```

```
    return 1
```

```
else
```

```
    return myfunc(k-1, j-1) + myfunc (k-2, j+3)
```

```
end if
```

```
end function myfunc
```

What will be the output of the following pseudocode ?

```
// a = 10, b = 11
Integer Myfunn( integer a, integer b)
if (0)
    return a-b-Myfunn(-7,-1)
end if
a = a+a+a+a
return a
End function Myfunn()
```

What will be the output of the following pseudocode ?

```
integer number[10], j
set number[10]= {1,2,3,4,5,6,7,8,9}
integer limit = 1
for(each j from 0 to value returned by the condition
(number[j]<=3 || number[j] EQUALS 3 || number[j] NOT EQUALS 7))
    limit = limit + number[j] + number [j] *5
End for
print limit
```

What will be the output of the following pseudocode ?

```
Integer myfunc(integer a, integer b, integer c)
```

```
set a = 3, b = 5
```

```
for(each c from 3 o 4)
```

```
  b = 2 &c
```

```
  if((b+a)<(a-b))
```

```
    a = c + a
```

```
  endif
```

```
end for
```

```
return a+b
```


What will be the output of the following pseudocode ?

Int p, q, r

Set p = 0, q = 10, r = 7

If((r +q-p)> (p +r))

 r = p & q

End if

Print p +q +r

What will be the output of the following code ?

```
int main()
{
int i = 0, j = 2, k = 3, m;
m = (i++ && ++j) || k++;
printf("%d%d%d%d", i, j, k, m);
return 0;
}
```

What will be the output of the following pseudocode ?

```
integer p, q  
set p = 19, q = 7  
p = p mod (p-3)  
q = q mod (q-3)  
p = p mod 1  
q = q mod 1  
print p+q
```

What will be the output of the following pseudocode ?

```
integer p, q, r
```

```
set p = 5, q = 8, r = 7
```

```
if(1<r)
```

```
    if(p<q)
```

```
        r = (2 & 3) + q
```

```
    End if
```

```
    q = 4 + p
```

```
End if
```

```
p = (p + p) + p
```

```
print p+q+r
```

What will be the output of the following ?

```
set int outcome = 6/0  
print outcome
```

What will be the output of the following if val = 250 ?

```
int val ,m, a
set m, a to val
while (m>0)
{
m = m/10
a = a-m
}
print a
```

What will be the output of the following pseudocode for $a = 8$ and $b = 9$?

```
function(input a, input b)
    if(a<b)
        return function(b , a)
    else if(b !=0)
        return (a + function(a, b-1))
    else
        return 0
```

What will be the output of the following pseudocode for $n = 6$?

```
function(input n)
    if(n == 1)
        return 0
    else
        return (n-1) + function(n-1)
```


What will be the output of the following code?

```
#include<stdio.h>
int main()
{
printf("%d",sizeof(printf("xplore360")));
return 0;
}
```

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
for( int x = 10;x>=0;x--)
{
    int z = x&(x>>2);
    if(z)
        printf("%d,x);
}
return 0;
}
```

Assume that objects of the type short, float and long occupy 2 bytes, 4 bytes and 8 bytes, respectively. The memory requirement for variable t ,

```
Struct{  
    short s [5]  
    union{  
        float y ;  
        long z;  
    }u;  
}t;
```

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
    int i =0;
    switch (i)
    {
        case '0': printf("Hello");
        break;
        case '1': printf("ok");
        break;
        default: printf("bye");
    }
    return 0;
}
```

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
int arr[] = {10,20,30,40,50,60};
int *ptr1 = arr;
int *ptr2 = arr+5;
printf("%d",(ptr2-ptr1));
printf("%d",(char*)ptr2-(char*)ptr1);
return 0;
}
```

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
char *ptr = "Infosys";
printf("%c",*&*&*ptr);
return 0;
}
```

What will be the output of the following code?

```
#include <stdio.h>
```

```
void Myfunction(int *x, int *y) {  
    x = y;  
    *x = 5;  
}
```

```
int main() {  
    int i = 0, j = 0;  
    Myfunction(&i, &j);  
    printf("%d %d\n", i, j);  
    return 0;  
}
```

What will be the output of the following code?

```
#include<stdio.h>
```

```
int Myfunction(int x, int *py, int **ppz)
```

```
{
```

```
int y, z;
```

```
**ppz +=1;
```

```
z = **ppz;
```

```
*py+=2;
```

```
y = *py;
```

```
x+=3;
```

```
return x+y+z;
```

```
}
```

```
int main()
```

```
{
```

```
int c, *b, **a;
```

```
c = 4;
```

```
b = &c;
```

```
a = &b;
```

```
printf("%d", Myfunction(c,b,a));
```

```
return 0;
```

```
}
```


What will be the output of the following code?

```
#include<stdio.h>
int main()
{
int arr[] = {1,2,3,4,5};
int *p = arr;
++*p;
p+=2;
printf("%d",*p);
return 0;
}
```

Q. What will be the output of the following code ?

```
int main()
{
    int a = 10;
    int b = 7;
    printf("%d",a & b && b + 1 || 0);
    return 0;
}
```

Q. What will be the output of the following code ?

```
procedure Test()  
    // Initialize variables  
    i = 0  
    j = 0  
    t = true  
    r = false  
    // Evaluate expressions  
    r = (t & 0 < (i += 1))  
    r = (t && 0 < (i += 2))  
    r = (t | 0 < (j += 1))  
    r = (t || 0 < (j += 1))  
    // Output values of i and j  
    output i, " ", j  
end procedure  
// Call the Test procedure to execute the program  
Test()
```

Q. Count Pairs with Sum

```
arr = [1, 5, 7, -1, 5]
```

```
count = 0
```

```
for i = 0 to 4
```

```
    for j = i+1 to 4
```

```
        if arr[i] + arr[j] == 6
```

```
            count = count + 1
```

```
        end if
```

```
    end for
```

```
end for
```

```
print count
```

Q. What will be the output of the following code ?

```
function f(n)
```

```
    if n <= 1
```

```
        return 1
```

```
    end if
```

```
    return f(f(n-1))
```

```
end function
```

```
print f(5) // calling the function
```

Q. What will be the output of the following code ?

```
arr = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
```

```
max_sum = arr[0]
```

```
curr_sum = arr[0]
```

```
for i = 1 to 8
```

```
    curr_sum = max(arr[i], curr_sum + arr[i])
```

```
    max_sum = max(max_sum, curr_sum)
```

```
end for
```

```
print max_sum
```

Q. What will be the output of the following code ?

```
#include<stdio.h>
int main ()
{
    int m=0;
    if(m==0)
    {
        m=((5,(m=3)),m=1);
        printf ("%d", m);
    }
    else
    printf("Test");
    return 0;
}
```

Q. What will be the output of the following pseudocode ?

Integer x, y

Set x = 15, y = 12

y = x - 1

do{

Print x

x = y + (x - 2)

}

while(x < 40)

end do while

Q. Which of the following if statements will compile without errors?
Imagine the code written in java.

```
int i = 3;
```

```
int j = 3;
```

```
int k = 3;
```

a) `if(i > j) {}`

b) `if(i > j > k) {}`

c) `if(i > j && i > k) {}`

d) `if(i > j && > k) {}`

Q. What will be the output of the following code ?

```
Integer fun(Integer a, Integer b)
if(b + a || a - b) && (b > a) && 1)
a = a+b+b-2
return 3-a
Else
End if
return a-b+1
End function fun ()
```

Q. What will be the output of the following code ?

```
Integer n, be, end
Set be = 5, end =7, sum =0
If(be>end)
    Print sum+1
Else
    for(n=end; n>=be ;n=n-1)
        sum = sum+n
        n = n-1
    end for loop
print n
```

Q What will be the output of the following pseudocode for input a =2 and b =4?

```
int fun (int a, int b)
{
int n =0
if(b<1)
return n
else
return fun (a+b+2, b-2)
}
```

Q What will be the value of t if a= 26, b = 168?

```
Read a, b
Function fun(a, b)
    t=0
    while(b!=0)
        t = t+a
        b = b-1
    end while
    return t;
end Function
```

Q. What will be the output of the following code ?

```
Integer a, b, c
```

```
Set b =10
```

```
for (each a from 1 to 4)
```

```
  b= b+a
```

```
end for
```

```
c = b/5
```

```
print c
```

Q. What will be the output of the following code ?

```
Integer p, q, r
Set p =8, q =6, r = 5
for (each r from 5 to 8)
    p = (6&3) +r
    if(4<q)
        p = 3 + r
        q = q+ q
    end if
end for
print p+q
```