Q1.#include<stdio.h>

int main(){

   int i = 3;

   int \*j;

   int \*\*k;

   j=&i;

   k=&j;

   printf("%u %u %d ",k,\*k,\*\*k);  
   return 0;

}

|  |  |  |
| --- | --- | --- |
| (A) Address, Address, 3 |  |  |
| (B) Address, 3, 3 |  |  |
| (C) 3, 3, 3 |  |  |
| (D) Compilation error |  |  |
| (E) None of above |  |  |

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| --- | --- |
| Q2. | What will be the output of the program ?  **#include<stdio.h>**  int main()  {  int i=3, \*j, k;  j = &i;  printf("%d\n", i\*\*j\*i+\*j);  return 0;  } |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 30 | | [**B.**](javascript:%20void%200;) | 27 | | [**C.**](javascript:%20void%200;) | 9 | | [**D.**](javascript:%20void%200;) | 3 | |

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| --- |
| Q3.What will be the output of the program If the integer is 4bytes long?  **#include<stdio.h>**  int main()  {  int \*\*\*r, \*\*q, \*p, i=8;  p = &i;  q = &p;  r = &q;  printf("%d, %d, %d\n", \*p, \*\*q, \*\*\*r);  return 0;  } |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 8, 8, 8 | | [**B.**](javascript:%20void%200;) | 4000, 4002, 4004 | | [**C.**](javascript:%20void%200;) | 4000, 4004, 4008 | | [**D.**](javascript:%20void%200;) | 4000, 4008, 4016 | |

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| --- | --- |
| Q4. | What will be the output of the program ?  **#include<stdio.h>**  power(int\*\*);  int main()  {  int a=5, \*aa; /\* Address of 'a' is 1000 \*/  aa = &a;  a = power(&aa);  printf("%d\n", a);  return 0;  }  power(int \*\*ptr)  {  int b;  b = \*\*ptr\*\*\*ptr;  return (b);  } |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 5 | | [**B.**](javascript:%20void%200;) | 25 | | [**C.**](javascript:%20void%200;) | 125 | | [**D.**](javascript:%20void%200;) | Garbage value | |

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| --- | --- |
| Q5. | If the size of integer is 4bytes, What will be the output of the program?  **#include<stdio.h>**  int main()  {  int arr[] = {12, 13, 14, 15, 16};  printf("%d, %d, %d\n", sizeof(arr), sizeof(\*arr), sizeof(arr[0]));  return 0;  } |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | 10, 2, 4 | | [**B.**](javascript:%20void%200;) | 20, 4, 4 | | [**C.**](javascript:%20void%200;) | 16, 2, 2 | | [**D.**](javascript:%20void%200;) | 20, 2, 2 | |

Q6. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. char \*p = NULL;
5. char \*q = 0;
6. if (p)
7. printf(" p ");
8. else
9. printf("nullp");
10. if (q)
11. printf("q**\n**");
12. else
13. printf(" nullq**\n**");
14. }

a) nullp nullq  
b) Depends on the compiler  
c) x nullq where x can be p or nullp depending on the value of NULL  
d) p q

Q7. Which is an indirection operator among the following?  
a) &  
b) \*  
c) ->  
d) .

Q8. Which of the following does not initialize ptr to null (assuming variable declaration of a as int p;a=0;?  
a) int \*ptr = &a;  
b) int \*ptr = &a – &a;  
c) int \*ptr = a – a;  
d) All of the mentioned

Q9.  What is the output of this C code?

1. #include <stdio.h>
2. int x = 0;
3. void main()
4. {
5. int \*ptr = &x;
6. printf("%p**\n**", ptr);
7. x++;
8. printf("%p**\n** ", ptr);
9. }

a) Same address  
b) Different address  
c) Compile time error  
d) Varies

Q10. What is the output of this C code?

1. #include <stdio.h>
2. int x = 0;
3. void main()
4. {
5. int \*const ptr = &x;
6. printf("%p**\n**", ptr);
7. ptr++;
8. printf("%p**\n** ", ptr);
9. }

a) 0 1  
b) Compile time error  
c) 0xbfd605e8 0xbfd605ec  
d) 0xbfd605e8 0xbfd605e8

Q11.  What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &x;
6. printf("%p**\n**", ptr);
7. ptr++;
8. printf("%p**\n** ", ptr);
9. }

a) 0xbfd605e8 0xbfd605ec  
b) 0xbfd605e8 0cbfd60520  
c) 0xbfd605e8 0xbfd605e9  
d) Run time error

Q12. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &5;
6. printf("%p**\n**", ptr);
7. }

a) 5  
b) Address of 5  
c) Nothing  
d) Compile time error

Q13. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &x;
6. printf("%d**\n**", \*ptr);
7. }

a) Address of x  
b) Junk value  
c) 0  
d) Run time error

Q14.  What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int a[3] = {1, 2, 3};
5. int \*p = a;
6. printf("%p**\t**%p", p, a);
7. }

a) Same address is printed.  
b) Different address is printed.  
c) Compile time error  
d) Nothing

Q15. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. char \*s = "hello";
5. char \*p = s;
6. printf("%p**\t**%p", p, s);
7. }

a) Different address is printed  
b) Same address is printed  
c) Run time error  
d) Nothing

Q16.  What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. char \*s= "hello";
5. char \*p = s;
6. printf("%c**\t**%c", p[0], s[1]);
7. }

a) Run time error  
b) h h  
c) h e  
d) h l

Q17. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. char \*s= "hello";
5. char \*p = s;
6. printf("%c**\t**%c", \*(p + 3), s[1]);
7. }

a) h e  
b) l l  
c) l o  
d) l e

Q18.  What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. char \*s= "hello";
5. char \*p = s;
6. printf("%c**\t**%c", 1[p], s[1]);
7. }

a) h h  
b) Run time error  
c) l l  
d) e e

Q19.

What is the output of the code given below?

1. #include <stdio.h>
2. void foo( int[] );
3. int main()
4. {
5. int ary[4] = {1, 2, 3, 4};
6. foo(ary);
7. printf("%d ", ary[0]);
8. }
9. void foo(int p[4])
10. {
11. int i = 10;
12. p = &i;
13. printf("%d ", p[0]);
14. }

a) 10 10  
b) Compile time error  
c) 10 1  
d) Undefined behaviour

Q20. What is the output of the code given below?

1. #include <stdio.h>
2. int main()
3. {
4. int ary[4] = {1, 2, 3, 4};
5. int \*p = ary + 3;
6. printf("%d**\n**", p[-2]);
7. }

a) 1  
b) 2  
c) Compile time error  
d) Some garbage value