What is the difference between call by value and call by reference in C?

### What is the difference between malloc() and calloc()?

### What is auto keyword in C?

### What is the purpose of sprintf() function?

### Can we compile a program without main() function?

### Write a program to print "hello world" without using semicolon?

### Write a program to swap two numbers without using third variable?

### What is difference between JDK,JRE and JVM?

### What gives Java its 'write once and run anywhere' nature?

### Is Empty .java file name a valid source file name?

### What is the default value of the local variables?

### What is difference between object oriented programming language and object based programming language?

### What is difference between object oriented programming language and object based programming language?

### Does constructor return any value?

### Can we execute a program without main() method?

### Can you use this() and super() both in a constructor?

### Difference between method Overloading and Overriding.

### What is covariant return type?

### Can there be any abstract method without abstract class?

### Can you use abstract and final both with a method?

### Is it possible to instantiate the abstract class?

### Can an Interface be final?

### What is marker interface?

### Do I need to import java.lang package any time? Why ?

### What is static import ?

### What is difference between Checked Exception and Unchecked Exception?

### Can finally block be used without catch?

### How many objects will be created in the following code?

1. String s1="Welcome";
2. String s2="Welcome";
3. String s3="Welcome";

### What is difference between wait() and sleep() method?

### Is it possible to start a thread twice?

### What is synchronization?

### What is the difference between Iterator and ListIterator?

### What is the difference between Iterator and Enumeration?

### What is the difference between Collection and Collections?

### What are the steps to connect to the database in java?

### How many objects of a servlet is created?

### What is the life-cycle of a servlet?

### Difference between forward() method and sendRedirect() method ?

### What are the JSP implicit objects ?

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| 1. | What will be the output of the program?   |  |  | | --- | --- | | 2. | What will be the output of the program?  try  {  int x = 0;  int y = 5 / x;  }  catch (Exception e)  {  System.out.println("Exception");  }  catch (ArithmeticException ae)  {  System.out.println(" Arithmetic Exception");  }  System.out.println("finished"); | | | 7. | What will be the output of the program?  public class X  {  public static void main(String [] args)  {  try  {  badMethod();  System.out.print("A");  }  catch (Exception ex)  {  System.out.print("B");  }  finally  {  System.out.print("C");  }  System.out.print("D");  }  public static void badMethod() {}  } | | | 8. | What will be the output of the program?  public class X  {  public static void main(String [] args)  {  try  {  badMethod(); /\* Line 7 \*/  System.out.print("A");  }  catch (Exception ex) /\* Line 10 \*/  {  System.out.print("B"); /\* Line 12 \*/  }  finally /\* Line 14 \*/  {  System.out.print("C"); /\* Line 16 \*/  }  System.out.print("D"); /\* Line 18 \*/  }  public static void badMethod()  {  throw new RuntimeException();  }  } | |   public void foo( boolean a, boolean b)  {  if( a )  {  System.out.println("A"); /\* Line 5 \*/  }  else if(a && b) /\* Line 7 \*/  {  System.out.println( "A && B");  }  else /\* Line 11 \*/  {  if ( !b )  {  System.out.println( "notB") ;  }  else  {  System.out.println( "ELSE" ) ;  }  }  }  public void test(int x)  {  int odd = 1;  if(odd) /\* Line 4 \*/  {  System.out.println("odd");  }  else  {  System.out.println("even");  }  }  public class Foo  {  public static void main(String[] args)  {  try  {  return;  }  finally  {  System.out.println( "Finally" );  }  }  } |
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| 1. | How many times the while loop will get executed if a short int is 2 byte wide?  **#include<stdio.h>**  int main()  {  int j=1;  while(j <= 255)  {  printf("%c %d\n", j, j);  j++;  }  return 0;  } |
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| 2. | Which of the following errors would be reported by the compiler on compiling the program given below?  **#include<stdio.h>**  int main()  {  int a = 5;  switch(a)  {  case 1:  printf("First");  case 2:  printf("Second");  case 3 + 2:  printf("Third");  case 5:  printf("Final");  break;  }  return 0;  } |
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| 3. | Point out the error, if any in the program.  **#include<stdio.h>**  int main()  {  int P = 10;  switch(P)  {  case 10:  printf("Case 1");  case 20:  printf("Case 2");  break;  case P:  printf("Case 2");  break;  }  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Error: No default value is specified | | |  | B. | |  | | --- | | Error: Constant expression required at line case P: | | |  | C. | |  | | --- | | Error: There is no break statement in each case. | | |  | D. | |  | | --- | | No error will be reported. | |   [[#]](javascript:%20void%200;) |

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| 4. | What will be the output of the program?  **#include<stdio.h>**  int main()  {  int i=2;  printf("%d, %d\n", ++i, ++i);  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 3, 4 | | |  | B. | |  | | --- | | 4, 3 | | |  | C. | |  | | --- | | 4, 4 | | |  | D. | |  | | --- | | Output may vary from compiler to compiler | |   [[#]](javascript:%20void%200;) |

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| 5. | In the expression a=b=5 the order of Assignment is NOT decided by Associativity of operators |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | True | | |  | B. | |  | | --- | | False | |   [[#]](javascript:%20void%200;) |

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| 6. | What is the notation for following functions?  1. int f(int a, float b)  {  /\* Some code \*/  }  2. int f(a, b)  int a; float b;  {  /\* Some code \*/  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 1. KR Notation  2. ANSI Notation | | |  | B. | |  | | --- | | 1. Pre ANSI C Notation  2. KR Notation | | |  | C. | |  | | --- | | 1. ANSI Notation  2. KR Notation | | |  | D. | |  | | --- | | 1. ANSI Notation  2. Pre ANSI Notation | |   [[#]](javascript:%20void%200;) |

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| 7. | How many times the program will print "IndiaBIX" ?  **#include<stdio.h>**  int main()  {  printf("IndiaBIX");  main();  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Infinite times | | |  | B. | |  | | --- | | 32767 times | | |  | C. | |  | | --- | | 65535 times | | |  | D. | |  | | --- | | Till stack overflows | |   [[#]](javascript:%20void%200;) |

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| 8. | What will be the output of the program?  **#include<stdio.h>**  **#define SQR(x)(x\*x)**  int main()  {  int a, b=3;  a = SQR(b+2);  printf("%d\n", a);  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 25 | | |  | B. | |  | | --- | | 11 | | |  | C. | |  | | --- | | Error | | |  | D. | |  | | --- | | Garbage value | |   [[#]](javascript:%20void%200;) |

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| 9. | A preprocessor directive is a message from programmer to the preprocessor. |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | True | | |  | B. | |  | | --- | | False | |   [[#]](javascript:%20void%200;) |

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| 10. | What will be the output of the program ?  **#include<stdio.h>**  int main()  {  char \*p;  p="hello";  printf("%s\n", \*&\*&p);  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | llo | | |  | B. | |  | | --- | | hello | | |  | C. | |  | | --- | | ello | | |  | D. | |  | | --- | | h | |   [[#]](javascript:%20void%200;) |

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| 11. | How will you free the allocated memory ? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | remove(var-name); | | |  | B. | |  | | --- | | free(var-name); | | |  | C. | |  | | --- | | delete(var-name); | | |  | D. | |  | | --- | | dalloc(var-name); | |   [[#]](javascript:%20void%200;) |

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| 12. | In a file contains the line "I am a boy\r\n" then on reading this line into the array str using fgets(). What will strcontain? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | "I am a boy\r\n\0" | | |  | B. | |  | | --- | | "I am a boy\r\0" | | |  | C. | |  | | --- | | "I am a boy\n\0" | | |  | D. | |  | | --- | | "I am a boy" | |   [[#]](javascript:%20void%200;) |

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| 13. | Which files will get closed through the fclose() in the following program?  **#include<stdio.h>**  int main()  {  FILE \*fs, \*ft, \*fp;  fp = fopen("A.C", "r");  fs = fopen("B.C", "r");  ft = fopen("C.C", "r");  fclose(fp, fs, ft);  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | "A.C" "B.C" "C.C" | | |  | B. | |  | | --- | | "B.C" "C.C" | | |  | C. | |  | | --- | | "A.C" | | |  | D. | |  | | --- | | Error in fclose() | |   [[#]](javascript:%20void%200;) |

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| 14. | If the file 'source.txt' contains a line "Be my friend" which of the following will be the output of below program?  **#include<stdio.h>**  int main()  {  FILE \*fs, \*ft;  char c[10];  fs = fopen("source.txt", "r");  c[0] = getc(fs);  fseek(fs, 0, SEEK\_END);  fseek(fs, -3L, SEEK\_CUR);  fgets(c, 5, fs);  puts(c);  return 0;  } |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | friend | | |  | B. | |  | | --- | | frien | | |  | C. | |  | | --- | | end | | |  | D. | |  | | --- | | Error in fseek(); | |   [[#]](javascript:%20void%200;) |

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| 15. | According to ANSI specifications which is the correct way of declaring main when it receives command-line arguments? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | int main(int argc, char \*argv[]) | | |  | B. | |  | | --- | | int main(argc, argv)  int argc; char \*argv; | | |  | C. | |  | | --- | | int main()  {  int argc; char \*argv;  } | | |  | D. | |  | | --- | | None of above | |   [[]](javascript:%20void%200;) |

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| 16. | What will be the output of the program (myprog.c) given below if it is executed from the command line? cmd> myprog one two three  /\* myprog.c \*/  **#include<stdio.h>**  **#include<stdlib.h>**  int main(int argc, char \*\*argv)  {  printf("%s\n", \*++argv);  return 0;  } |
| [[#]](javascript:%20void%200;) |

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| 17. | Point out the correct statement which correctly allocates memory dynamically for 2D array following program?  **#include<stdio.h>**  **#include<stdlib.h>**  int main()  {  int \*p, i, j;  /\* Add statement here \*/  for(i=0; i<3; i++)  {  for(j=0; j<4; j++)  {  p[i\*4+j] = i;  printf("%d", p[i\*4+j]);  }  }  return 0;  } |
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