Started on	Tuesday, 26 April 2022, 3:00 PM
State	Finished
Completed on	Tuesday, 26 April 2022, 3:14 PM
Time taken	13 mins 38 secs

Given:

```
3. public class Tenor extends Singer {
4. public static String sing() { return "fa"; }
5. public static void main(String[] args) {
6. Tenor t = new Tenor();
7. Singer s = new Tenor();
8. System.out.println(t.sing() + " " + s.sing());
9. }
10. }
11. class Singer { public static String sing() { return "la"; } }
```

What is the result?

Select one:

- **a. fa la**
- **b. Compilation fails**
- **c. An exception is thrown at runtime**
- **d. la la**
- **e. fa fa**

Given:

public abstract interface Frobnicate { public void twiddle(String s); }

Which is a correct class? (Choose all that apply.)

Select one or more:

- **a. public class Frob implements Frobnicate {**
  public void twiddle(String i) { }
  public void twiddle(Integer s) { }
  }
- **b. public class Frob implements Frobnicate {**
  public void twiddle(Integer i) { }
  }
- **c. public class Frob extends Frobnicate {**
  public void twiddle(Integer i) { }
  }
- **d. public abstract class Frob implements Frobnicate { }**
- **e. public abstract class Frob implements Frobnicate {**
  public abstract void twiddle(String s) { }
  }

Given:

```
class Top {
public Top(String s) { System.out.print("B"); }
}
public class Bottom2 extends Top {
public Bottom2(String s) { System.out.print("D"); }
public static void main(String [] args) {
new Bottom2("C");
System.out.println(" ");
} }
```

What is the result?

Select one:

- **a. Compilation fails**
- **b. DB**
- **c. DBC**
- **d. BD**
- **e. BDC**

Output of following C program?

```
#include <stdio.h>
int f1() { printf ("hello"); return 1;}
int f2() { printf ("welcome"); return 1;}
int main()
{
  int p = f1() + f2();
  return 0;
}
```

Select one:

- **a. welcomehello**
- **b. Compiler Error**
- **c. hellowelcome2**
- **d. Compiler Dependent**
- **e. hellowelcome**

Given:

```
3. class Alpha {
4. static String s = " ";
5. protected Alpha() { s += "alpha "; }
6. }
```

```
7. class SubAlpha extends Alpha {
8. private SubAlpha() { s += "sub "; }
9. }
10. public class SubSubAlpha extends Alpha {
11. private SubSubAlpha() { s += "subsub "; }
12. public static void main(String[] args) {
13. new SubSubAlpha();
14. System.out.println(s);
15. }
16. }
```

What is the result?

Select one:

- **a. Compilation fails**
- **b. alpha sub subsub**
- **c. sub subsub**
- **d. alpha subsub**
- **e. subsub**
- **f. An exception is thrown at runtime**

Given:

```
class Clidder {
private final void flipper() { System.out.println("Clidder"); }
}
public class Clidlet extends Clidder {
public final void flipper() { System.out.println("Clidlet"); }
public static void main(String [] args) {
new Clidlet().flipper();
} }
```

What is the result?

Select one:

- **a. Clidlet**
  Clidder
- **b. Compilation fails**
- **c. Clidder**
  Clidlet
- **d. Clidlet**
- **e. Clidder**

Predict the output of the following program:

```
#include <stdio.h>
int main()
{
    char str[] = "%d %c", arr[] = "GreatQuee";
    printf(str, 0[arr], 2[arr + 3]);
    return 0;
}
```

Select one:

- **a. 71 Q**
- **b. G Q**
- **c. 71 81**
- **d. Prints Nothing and Results in Segmentation fault**
- **e. Compile-time error**

Predict the output of following C program

```
#include <stdio.h>
int main()
{
    char a = '\012';
```

```
    printf("%d", a);
    return 0;
}
```

Select one:

- **a. 10**
- **b. Empty**
- **c. Compiler Error**
- **d. 12**

```
#include <stdio.h>
int main()
{
    if (sizeof(int) > -1)
        printf("Yes");
    else
        printf("No");
    return 0;
}
```

Select one:

- **a. Yes**
- **b. Runtime Error**
- **c. No**
- **d. Compiler Error**

Predict the output of following C program, assume that a character takes 1 byte and pointer takes 4 bytes.

```
#include <stdio.h>
int main()
{
```

```
    char *str1 = "helloworld";
    char str2[] = "helloworld";
    char *str3='K';
    printf("sizeof(str1) = %d, sizeof(str2) = %d, sizeof(str3) = %d ", sizeof(str1), sizeof(str2),sizeof(str3));
    return 0;
}
```

Select one:

- **a. sizeof(str1) = 11, sizeof(str2) = 4, sizeof(str3) = 4**
- **b. sizeof(str1) = 4, sizeof(str2) = 4, sizeof(str3) = 1**
- **c. sizeof(str1) = 4, sizeof(str2) = 11, sizeof(str3) = 4**
- **d. sizeof(str1) = 11, sizeof(str2) = 11, sizeof(str3) = 1**