



BE the Compiler

Which of the A-B pairs of methods listed on the right, if inserted into the classes on the left, would compile and produce the output shown? (The A method inserted into class Monster, the B method inserted into class Vampire.)

```
public class MonsterTestDrive {
    public static void main(String [] args) {
        Monster [] ma = new Monster[3];
        ma[0] = new Vampire();
        ma[1] = new Dragon();
        ma[2] = new Monster();
        for(int x = 0; x < 3; x++) {
            ma[x].frighten(x);
        }
    }
}
```

```
class Monster {
    A
}
```

```
class Vampire extends Monster {
    B
}
```

```
class Dragon extends Monster {
    boolean frighten(int degree) {
        System.out.println("breath fire");
        return true;
    }
}
```

```
File Edit Window Help SaveYourself

% java MonsterTestDrive
a bite?
breath fire
arrrgh
```

- 1

A

```
boolean frighten(int d) {
    System.out.println("arrrgh");
    return true;
}
```

B

```
boolean frighten(int x) {
    System.out.println("a bite?");
    return false;
}
```
- 2

A

```
boolean frighten(int x) {
    System.out.println("arrrgh");
    return true;
}
```

B

```
int frighten(int f) {
    System.out.println("a bite?");
    return 1;
}
```
- 3

A

```
boolean frighten(int x) {
    System.out.println("arrrgh");
    return false;
}
```

B

```
boolean scare(int x) {
    System.out.println("a bite?");
    return true;
}
```
- 4

A

```
boolean frighten(int z) {
    System.out.println("arrrgh");
    return true;
}
```

B

```
boolean frighten(byte b) {
    System.out.println("a bite?");
    return true;
}
```