

Use the following array to answer all problems:

```
int[ ] piggy = new int[5];
/* Code to Execute */
```

1. How many elements are in the array piggy?
2. What is stored in piggy[0]?
3. What is stored in piggy[3]?
4. What is stored in piggy[5]?
5. If **/* Code to Execute */** is replaced with the following, what output will be given?

```
piggy[1]=8;
piggy[4]=6;
System.out.print(2*piggy[1]%piggy[4]);
```

6. If **/* Code to Execute */** is replaced with the following, what output will be given?

```
for(int i=0; i<5; i++)
    piggy[i]=2*i+3;
System.out.print(piggy[2]+piggy[4]);
```

7. If **/* Code to Execute */** is replaced with the following, what output will be given?

```
int answer=0;
for(int i=0; i<5; i++)
    piggy[i]=(i+3)*2;
for(int i=0; i<piggy.length; i++) {
    if(i==4)
        answer+=piggy[0];
    else
        answer+=piggy[i+1];
}
System.out.print(answer);
```

8. If **/* Code to Execute */** is replaced with the following, what output will be given?

```
for(int i=0; i<piggy.length; i++)
    piggy[i]=3*i;
for(int i=0; i<piggy.length; i++) {
    if(i==0)
        piggy[i]=piggy[piggy.length-1];
    else if(i==piggy.length-1)
        piggy[i]=piggy[0];
    else
        piggy[i]=piggy[i+1];
}
for(int i=0; i<5; i++)
    System.out.print(piggy[4-i]+" ");
```

9. If **/* Code to Execute */** is replaced with the following, what output will be given?

```
piggy[0]=12;
for(int i=1; i<piggy.length; i++)
    piggy[i]=piggy[i-1]-5;
for(int i=0; i<piggy.length; i++) {
    if(piggy[i]<0) {
        System.out.println("The first one is index #"+i);
        System.out.println("The number is "+piggy[i]);
        break;
    }
}
```