```
Consider the following code segment in which the int variable x has been properly declared and initialized.
```

```
if (x % 2 == 1)
{
    System.out.println("YES");
}
else
{
    System.out.println("NO");
}
```

Assuming that x is initialized to the same positive integer value as the original, which of the following code segments will produce the same output as the original code segment?

```
1.
if (x % 2 == 1)
  System.out.println("YES");
if (x % 2 == 0)
  System.out.println("NO");
II.
if (x % 2 == 1)
  System.out.println("YES");
}
else if (x % 2 == 0)
1
  System.out.println("NO");
}
else
1
  System.out.println("NONE");
111.
boolean test = x % 2 == 0;
if (test)
  System.out.println("YES");
else
3
  System.out.println("NO");
```