Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);
        n /= c;
    }
    else {
        c++;
    }
}
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System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;
    }
    else {
        c++;
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}
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    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;                                   c: 2
    }
    else {
        c++;
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    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;                                   c: 2
    }
    else {
        c++;
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int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 12
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 6
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 6
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 6
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 6
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 2
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

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int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 3
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 1
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 1
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```

Flow of control

```
System.out.print("Please enter an integer--> ");
int n = keyboard.nextInt();    // number to factor

int c = 2;   // current factor

while (n != 1) {
    if (n % c == 0) {
        System.out.println(c);                    n: 1
        n /= c;                                   c: 3
    }
    else {
        c++;
    }
}
```