

Extra Question # 06

Specific points on a compass may be expressed in general directions. For example, 130° is in as easterly direction.

Write the function **printDirection** that takes the heading direction in degrees as an input parameter in order to display the cardinal direction according to the following information:



| Degrees | Cardinal Direction |
|-----------|--------------------|
| 45 - 135 | East |
| 136 - 225 | South |
| 226 - 315 | West |
| 316 - 360 | North |
| 0 - 45 | |

Write a C program that takes directions in degrees and displays the direction using the function **printDirection**. The program should reject invalid readings and end execution when a negative compass reading is given.

Project Name: EQ6

File Name: EQ6.cpp

Example Run:

```
Compass Reading? 104  
EAST
```

```
Compass Reading? 370  
INVALID! Enter another compass reading? 242  
WEST
```

```
Compass Reading? 20  
NORTH
```

```
Compass Reading? 320  
NORTH
```

```
Compass Reading? 90  
EAST
```

```
Compass Reading? 135  
EAST
```

```
Compass Reading? 136  
SOUTH
```

```
Compass Reading? -3
```