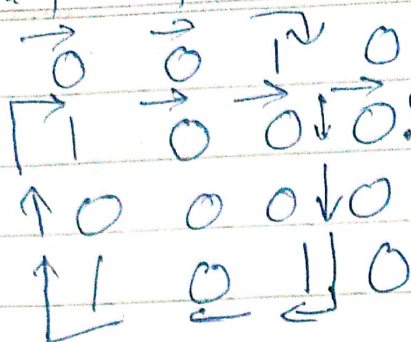
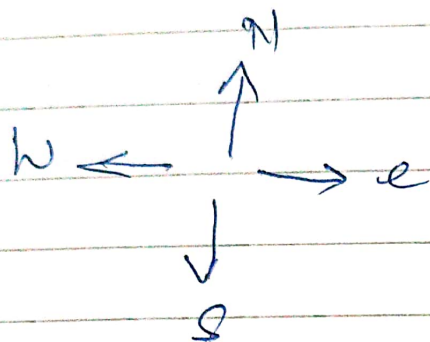


Exit point of a matrix



Start from a point move in east direction take a 90° right turn when "1" is reached and continue till you exit the matrix



$E \Rightarrow i, j+1$ (same row, col increase)

$S \Rightarrow i+1, j$ (row increase, col same)

$W \Rightarrow i, j-1$ (row same, col decrease)

$N \Rightarrow i-1, j$ (row decrease, col same)

direction 90° change

$E \Rightarrow$ east to south

$dir = 0[E]$

$S \Rightarrow$ south to west

$= 1[S]$

$W \Rightarrow$ west to north

$= 2[W]$

$N \Rightarrow$ north to east

$= 3[N]$

$= 0[E]$

```
int dir=0; // 0-e, 1-s, 2-w, 3-n
```

```
int i=0;
```

```
int j=0;
```

```
while (true) {
```

```
    dir = (dir + arr[i][j]) % 4;
```

```
    if (dir == 0) { // east
```

```
        j++;
```

```
    } else if (dir == 1) { // south
```

```
        i++;
```

```
    } else if (dir == 2) { // west
```

```
        j--;
```

```
    } else if (dir == 3) { // north
```

```
        i--;
```

```
}
```

```
if (i < 0) {
```

```
    i++;
```

```
    break;
```

```
} else if (j < 0) {
```

```
    j++; break;
```

```
}
```

```
else if (i == arr.GetLength(0)) {
```

```
    i--;
```

```
    break;
```

```
} else if (j == arr.GetLength(1)) {
```

```
    j--;
```

```
    break;
```

```
}
```