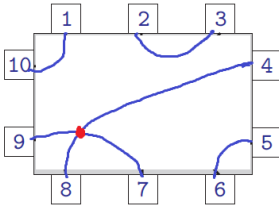
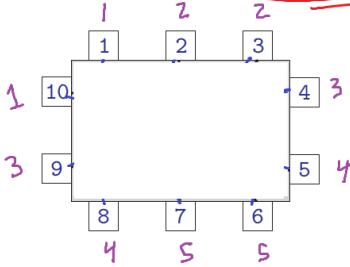


Net = [1, 2, 2, 3, 4, 4, 5, 3, 5, 1]



Not Routable

Net = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
~~[1, 2, 2, 3, 4, 4, 5, 3, 5, 1]~~
~~[() () () () () () () () () ()]~~



Net [10]

Routable

Net = [0, 1, 2, 3, 4, 5]
~~[1, 2, 2, 3, 3, 1]~~



Net = [0, 1, 2, 3, 4, 5]
~~[1, 2, 1, 3, 3, 2]~~



Net = [0, 1, 2, 3, 4, 5]
~~[1, 2, 2, 1, 3, 3]~~
~~[1, 2, 2, 3, 3, 1]~~

```
void checkBox( int * net, int n ){
    int i;
    Stack s = createStack( );
    for( i = 0; i < n; i++ )
        if( !s.empty( &s ) )
            if( net[ i ] == net[ s.peek( &s ) ] )
                s.pop( &s );
            else s.push( &s, i );
        else s.push( &s, i );
    if( s.empty( &s ) ){
        printf( "Switch box is routable\n" );
        return;
    }
    printf( "Switch box is not routable\n" );
    return;
}
```