$n = 4$

$0 \text{ or } n-1 \text{ or } n/2 \text{ or } n-1/2$ $\boxed{0\ 1\ 2\ 3}$

$i = 0$
$j = 0$

$i = 0$
$j = n-1/2$

$i = 0$
$j = 0$

$i = 3$
$j = 3$

$i \neq 3$
$j = n-1$ $n/2$

$i = 0$
$j = n-1/2$