

B1

$x \leftarrow 3$

B2

$i \leftarrow \phi(x, j)$
if ($i < N$)

B3

$j \leftarrow i + 1$

B4

$k \leftarrow \phi_{exit}(i)$

B4

return k

```
graph TD; B1["x ← 3"] --> B2["i ← ϕ(x, j)  
if (i < N)"]; B2 --> B3["j ← i + 1"]; B3 --> B2; B2 --> B4_2["k ← ϕ_exit(i)"]; B4_2 --> B4_1["return k"];
```