
Algorithm 6 : phase_3_abs(nodes list, opposite open list, dir)

```
for node in nodes list do
    expandablelist.push(node)
end for
while expandablelist  $\neq \{\}$  do
    node = Pop(expandablelist)
    node  $\rightarrow$  'closed'
    for neighbour in expand(node) do
        child = Node(neighbour, dir, g + 1, 'open')
        if already exist in nodes list then
            return True
        end if
        nodes list.push(child)
        check for duplicates and replace if child gvalue is smaller
    end for
    nodes list.push(child) //if child does not already exist in nodes list
end while
```
