$\overline{\textbf{Algorithm 3}}: \text{H_abstraction}(\text{init,current_node,dir})$

```
goal = ['1','1','1','1','5','6','7','8','0']
map(init\ node) \rightarrow abstract\ node
map(current\ node) \rightarrow abstract\ node
if dir =='fw' then
h = blind(current\_node, goal)
return\ h
else
h = blind(current\_node, init)
return\ h
end if
```