```
function BinarySearch(sorted_list, num)
  begin_index ← 0
  end_index ← LENGTH[sorted_list]
  while begin_index ≤ end_index do
    mid_idx = FLOOR(begin_index + end_index) / 2
    if sorted_list[mid_idx] = num then
        return mid_idx
  else if num < sorted_list[mid_idx] then
        end_index ← mid_inx - 1
  else
        begin_index ← mid_idx + 1
  end if
end while</pre>
```

return None