Given an array, nums integers, sorted, ascending. and int: target

write a function to search target in nums. if found return true, else false

time complexity → O(log n)

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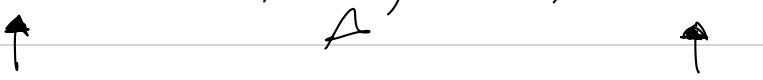
a binary search t = 9

-1, 0, 3, 5, 9, 12



```
while L < R:
  mid = L + R / 2
  if mid == t:
     return true
  if mid < target:
     L = mid + 1
  else:
     R = mid - 1
```