源代码

```go
package main

// quickSort 快速排序
func quickSort(arr []int, low, high int) {
    if low < high {
       p := partition(arr, low, high)
       quickSort(arr, low, p-1)
       quickSort(arr, p+1, high)
    }
}

// partition 分治排序
func partition(arr []int, low, high int) int {
    pivot := arr[high]
    i := low - 1
    for j := low; j < high; j++ {
       if arr[j] < pivot {
          i++
          arr[i], arr[j] = arr[j], arr[i]
       }
    }
    arr[i+1], arr[high] = arr[high], arr[i+1]
    return i + 1
}
```

AST 处理后


```
{
   "comment": "quickSort  快速排序",
   "function_name": "quickSort",
   "input_types": "arr *ast.ArrayType, low int, high int",
   "output_types": "None"
}
{
   "comment": "partition  分治排序",
   "function_name": "partition",
   "input_types": "arr *ast.ArrayType, low int, high int",
   "output_types": "int"
}
```