

National University of Singapore
School of Computing
CS1101S: Programming Methodology
Semester I, 2024/2025
S5-in-class

Problems:

1. Write a Source §2 function called `sums` that takes a **list of numbers** as its only argument and returns a **list of numbers**, containing two elements: the first is the sum of all even-ranked numbers in the input list (ranks 0, 2, 4 etc), whereas the second element is the sum of all odd-ranked elements in the input list (ranks 1, 3, 5 etc).

Example call:

```
sums(list(1, 2, 3, 4, 5));  
// Value: [9, [6, null]]
```

We say that `sums` has the following type:

`sums`: list of Number \rightarrow list of Number