## Basic Calculator

For this problem it requires parsing and evoluting an arithmetic expression with +, - and parentheses efficiently.

Ky Tolea:

Lete handle neted parent heses and right evering a stack:

1 Sterate through the string:

Degit: Build the full number. + A -: Update sign (1 21-1).

- · (: Push current result and sign onto stach (for later restriction),
- .): Pop sign and previous sent combine with current. 2. Add right so number to result when a number ends or at the end.

| Stendling Uncary: 1

Unery minus is valid (e.g., -(2+3)).

- When - aspears:

- If previous tokin was (SI start of string, treat it as many) (e.g. prependo)

Algorithm: 1

1 Initiality: · result = 2

· Mgn =1

· stack=[]

2 havene string s:

saverse string s:
- Ef diget -> park fall number, add sign & num to sesult.

· If + - Mgm = 1  $-\int - \int MGm = -1$ 

If (-) push result and sign on stock seset sesult =0 sign = 1

