사칙연산

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<u></u> Person	Ally Hyeseong Kim	
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References

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https://school.programmers.co.kr/learn/courses/30/lessons/1843
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References

1. Dynamic Programming

1. Dynamic Programming

```
def solution(arr):
    arr[0] = int(arr[0])
    for i in range(1, len(arr) // 2 + 1):
        if arr[i] == "+":
            arr = arr[:i] + [int(arr[i + 1])] + arr[i + 2:]
        elif arr[i] == "-":
            arr = arr[:i] + [-int(arr[i + 1])] + arr[i + 2:]
    max_dp = [[-float("inf") for _ in range(len(arr))] for _ in range(len(arr))]
    min_dp = [[float("inf") for _ in range(len(arr))] for _ in range(len(arr))]
    for length in range(len(arr)):
        for i in range(len(arr) - length):
            j = i + length
            if length == 0:
                max_dp[i][j] = abs(arr[i])
                min_dp[i][j] = abs(arr[i])
            for k in range(i + 1, j + 1):
                if arr[k] > 0:
                    \max_{dp[i][j]} = \max(\max_{dp[i][j]}, \max_{dp[i][k - 1]} + \max_{dp[k][j]})
```

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min_dp[i][j] = min(min_dp[i][j], min_dp[i][k - 1] + min_dp[k][j])
    else:
        max_dp[i][j] = max(max_dp[i][j], max_dp[i][k - 1] - min_dp[k][j])
        min_dp[i][j] = min(min_dp[i][j], min_dp[i][k - 1] - max_dp[k][j])

return max_dp[0][len(arr) - 1]
```

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