What is a Recursive NPI Program?

Trace from an example recursive NPI program: ☎ ADD calls itself

☎ **ADD**
  ☎ ADD1 ⎤
  ☎ LSHIFT ⎦ Repeated inside **one** function call
  ☎ ADD1
  ☎ LSHIFT
  ☎ ADD1
  ☎ LSHIFT
...

**Execution trace of
non-recursive program
(previous work)**

☎ **ADD**
  ☎ ADD1
  ☎ LSHIFT
  ☎ **ADD**
    ☎ ADD1
    ☎ LSHIFT
    ☎ **ADD**
...

Recursive calls

**Execution trace of
recursive program
(our work)**