<SST>  <assgn\_var> | <fn\_call> | <instof\_st> | <assgn\_arr> | <assgn\_obj> | <assgn\_dict> | <assgn\_enum>

Let A = assgn\_var, B = assgn\_arr, C = assgn\_obj, D = assgn\_dict, E = assgn\_enum, F = fn\_call, G = instncof

SST  <A>  <A1> ID <A2> <A3>

SST  <B>  <A1> ID <A2> <B1>

SST  <C>  <A1> ID <A2 > = new ID { < C1>}

SST  <D>  <A1> ID <A2> = { <D1> }

SST  <E>  <A1> ID <A2> = <A6>

SST  <F>  <A1> ID <A2> { <F1> }

SST  <G>  <A1> ID <A2> instanceof ID

SST  <A1> ID <A2> <SST2> final finhal

SST2  = <A5>

SST2  COMPASS <A5>

SST2  = <B2>

SST2  = new ID { < C1>}

SST2  = { <D1> }

SST2 = <A6>

SST2  { <F1> }

SST2  instanceof ID

SST2  = <SST3> | { <F1> } | instanceof ID | COMPASS <A5>

<SST3>  <A6>

<SST3>  { <D1> }

<SST3>  new ID { < C1>}

<SST3>  <B2>

<SST3>  <A5>

SST à <A1> ID <A2> <SST2> final finhal

SST2  = <SST3> | { <F1> } | instanceof ID | COMPASS <A5> final filhal

<SST3>  <OE>

<SST3> --> <const> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> L01 <F> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> <input\_st> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> {<OE>} <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> inc\_dec <TS> ID <option> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> TS . ID <opt> <F1> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> ID <opt> <F2><T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<F> --> <const> | L01 <F> | <input\_st> | {<OE>} | | TS . ID <opt> <F1> | ID <opt> <F2>

<SST3> --> <const> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> L01 <F> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> <input\_st> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> {<OE>} <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> TS . ID <opt> <F1> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> ID <opt> <F2><T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3>  { <D1> }

<SST3>  new ID { < C1>}

<SST3>  ID <assgn\_arr\_val>

<SST3> --> { <values>}

<SST3> --> ID <asgn\_var\_val>

Final SST3

<SST3> --> <const> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> L01 <F> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> <input\_st> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> --> TS . ID <opt> <F1> <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST3> à new ID { < C1>}

<SST3> --> { <SST4>

<SST3> --> ID <SST5>

<SST4> --> <OE>} <T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST4> --> <values>}

<SST4> --> <D1> }

<SST5> --> <opt> <F2><T'> <E'> <RE1'> <RE2'> <AE'> <OE’>

<SST5> --> <asgn\_var\_val>

<SST5> --> <assgn\_arr\_val>

<SST5> --> **<assgn\_op> <assgn\_op\_b>**

**<SST5> --> = <assgn\_val\_b>**

<SST5> --> **= <assgn\_op\_b>**

<SST5> -->  **COMPASS <assgn\_op\_b>**

**<SST5> --> = <assgn\_val\_b>**

**<SST5> --> COMPASS <assgn\_op\_b>**

**<SST5> --> = <SST6>**

**<SST6> --> <assgn\_val\_b> | <assgn\_op\_b>**

<SST3> --> { <SST4> | ID <SST5> | new ID { <C1> } | <OE> (OE ignore krdia abhi)

<SST4> --> <D1> } | <values>} yaha bhi OE ignore

<SST5> --> <assgn\_arr\_val> | <assgn\_op> <assgn\_op\_b>

<fn-call> → <TS> ID <option> { <args\_list> }

Let F1 = args\_list

<assgn\_var> --> <TS> ID <option> <assgn\_var\_val>

<asgn\_var\_val> --> <assgn\_op> <assgn\_op\_b>

<assgn\_op\_b> --> ID <asgn\_var\_val> | <OE>

<assgn\_op> = | COMPASS

Let A1 = TS, A2 = opt, A3 = assgn\_var\_val, A4 = assgn\_op, A5 = asgn\_op\_b, A6 = OE

<assgn\_arr> --> <TS> ID <option> <assgn\_arr\_val>

<assgn\_arr\_val>  = <assgn\_arr\_val\_b>

<assgn\_arr\_val\_b>  ID <assgn\_arr\_val> | <value\_list>

<value\_list> --> { <values>}

<values>  <value> <arr\_val> <values’>

<values’>  , <value> <values’> | €

<value> --> <OE> | <value\_list>

<arr\_val> --> , <OE> <arr\_val> | €

Let B1 = assgn\_arr\_val, B2 = assgn\_arr\_val\_b,

B3 = value\_list, B4 = values, B5 = value,

B6 = arr\_val, B7 = values’

<Assgn\_obj> --> <TS> ID <option> = new ID { <arguments>}

<arguments> --> <args\_list> | €

<args\_list> --> <OE> <list\_args> | ∈

<list\_args> --> , <OE> <list\_args> | ∈

Let C1 = arguments, C2 = args\_list, C3 = list\_args

<assgn\_dict> --> <TS> ID <option> = { <values\_of\_dic> }

<values\_of\_dic> --> ID : <OE> <dict\_val> | €

<dict\_val> --> , ID : <OE> <dict\_val> | €

Let D1 = values\_of\_dic, D2 = dict\_val

<assgn\_enum> --> <TS> ID <option> = <OE>

<incdec\_st>  inc-dec <TS> ID <option> | <TS> ID <option> inc-dec

<instof\_st>  <TS> ID <option> instanceof ID