O
$\mathrm{add}(v_{142}, (3 + v_{135}), v_{144})$

C
$\mathrm{add}(0, (3 + v_{143}), v_{135}), \mathrm{add}(0, v_{137}, v_{143}), \mathrm{multiply}(3, 0, v_{137}), \mathrm{add}((3 + v_{135}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{142} \to 0, v_{144} \to (3 + v_{135}) \,]$

O
$\mathrm{add}(0, (3 + v_{143}), v_{135})$

C
$\mathrm{add}(0, v_{137}, v_{143}), \mathrm{multiply}(3, 0, v_{137}), \mathrm{add}((6 + v_{143}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{142} \to 0, v_{144} \to (3 + v_{135}) \,]$

O
$\mathrm{add}(0, v_{137}, v_{143})$

C
$\mathrm{multiply}(3, 0, v_{143}), \mathrm{add}((6 + v_{143}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{144} \to (3 + v_{135}) \,]$

O
$\mathrm{multiply}(3, 0, v_{143})$

C
$\mathrm{add}(6, v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}) \,]$

O
$\mathrm{add}(6, v_{81}, v_{145})$

C
$\mathrm{add}(5, v_{81}, v_{155}), \mathrm{add}(v_{66}, (4 + v_{155}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5 \,]$

O
$\mathrm{add}(5, v_{81}, v_{155})$

C
$\mathrm{add}(4, v_{81}, v_{157}), \mathrm{add}(v_{66}, (5 + v_{157}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4 \,]$

O
$\mathrm{add}(4, v_{81}, v_{157})$

C
$\mathrm{add}(3, v_{81}, v_{159}), \mathrm{add}(v_{66}, (6 + v_{159}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3 \,]$

O
$\mathrm{add}(3, v_{81}, v_{159})$

C
$\mathrm{add}(2, v_{81}, v_{161}), \mathrm{add}(v_{66}, (7 + v_{161}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3, v_{159} \to (1 + v_{161}), v_{160} \to 2 \,]$

O
$\mathrm{add}(2, v_{81}, v_{161})$

C
$\mathrm{add}(1, v_{81}, v_{163}), \mathrm{add}(v_{66}, (8 + v_{163}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3, v_{159} \to (1 + v_{161}), v_{160} \to 2, v_{161} \to (1 + v_{163}), v_{162} \to 1 \,]$

O
$\mathrm{add}(1, v_{81}, v_{163})$

C
$\mathrm{add}(0, v_{81}, v_{165}), \mathrm{add}(v_{66}, (9 + v_{165}), v_{55})$
$[\, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3, v_{159} \to (1 + v_{161}), v_{160} \to 2, v_{161} \to (1 + v_{163}), v_{162} \to 1, v_{163} \to (1 + v_{165}), v_{164} \to 0 \,]$

O
$\mathrm{add}(0, v_{81}, v_{165})$

C
$\mathrm{add}(v_{66}, (9 + v_{165}), v_{55})$
$[\, v_{81} \to v_{165}, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3, v_{159} \to (1 + v_{161}), v_{160} \to 2, v_{161} \to (1 + v_{163}), v_{162} \to 1, v_{163} \to (1 + v_{165}), v_{164} \to 0 \,]$

Leaf
$\mathrm{add}(v_{66}, (9 + v_{165}), v_{55})$
$[\, v_{81} \to v_{165}, v_{135} \to (3 + v_{143}), v_{137} \to v_{143}, v_{142} \to 0, v_{143} \to 0, v_{144} \to (3 + v_{135}), v_{145} \to (1 + v_{155}), v_{154} \to 5, v_{155} \to (1 + v_{157}), v_{156} \to 4, v_{157} \to (1 + v_{159}), v_{158} \to 3, v_{159} \to (1 + v_{161}), v_{160} \to 2, v_{161} \to (1 + v_{163}), v_{162} \to 1, v_{163} \to (1 + v_{165}), v_{164} \to 0 \,]$

C
$\mathrm{add}(v_{146}, (3 + v_{135}), v_{147}), \mathrm{add}((1 + v_{146}), (3 + v_{143}), v_{135}), \mathrm{add}((1 + v_{146}), v_{137}, v_{143}), \mathrm{multiply}((4 + v_{146}), (1 + v_{146}), v_{137}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{142} \to (1 + v_{146}), v_{144} \to (1 + v_{147}) \,]$

O
$\mathrm{add}((1 + v_{146}), (3 + v_{143}), v_{135})$

C
$\mathrm{add}(v_{148}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{148}, (3 + v_{143}), v_{149}), \mathrm{add}((1 + v_{148}), v_{137}, v_{143}), \mathrm{multiply}((4 + v_{148}), (1 + v_{148}), v_{137}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{142} \to (1 + v_{146}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148} \,]$

O
$\mathrm{add}((1 + v_{148}), v_{137}, v_{143})$

C
$\mathrm{add}(v_{150}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{150}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{150}, v_{137}, v_{151}), \mathrm{multiply}((4 + v_{150}), (1 + v_{150}), v_{137}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150} \,]$

O
$\mathrm{multiply}((4 + v_{150}), (1 + v_{150}), v_{137})$

C
$\mathrm{add}(v_{152}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{152}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{152}, v_{137}, v_{151}), \mathrm{add}((4 + v_{152}), v_{153}, v_{137}), \mathrm{multiply}((4 + v_{152}), v_{152}, v_{153}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150}, v_{150} \to v_{152} \,]$

O
$\mathrm{add}((4 + v_{152}), v_{153}, v_{137})$

C
$\mathrm{add}(v_{152}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{152}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{152}, (1 + v_{155}), v_{151}), \mathrm{add}((3 + v_{152}), v_{153}, v_{155}), \mathrm{multiply}((4 + v_{152}), v_{152}, v_{153}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{154} \to (3 + v_{152}) \,]$

O
$\mathrm{add}((3 + v_{152}), v_{153}, v_{155})$

C
$\mathrm{add}(v_{152}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{152}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{152}, (2 + v_{157}), v_{151}), \mathrm{add}((2 + v_{152}), v_{153}, v_{157}), \mathrm{multiply}((4 + v_{152}), v_{152}, v_{153}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{154} \to (3 + v_{152}), v_{155} \to (1 + v_{157}), v_{156} \to (2 + v_{152}) \,]$

O
$\mathrm{add}((2 + v_{152}), v_{153}, v_{157})$

C
$\mathrm{add}(v_{152}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{152}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{152}, (3 + v_{159}), v_{151}), \mathrm{add}((1 + v_{152}), v_{153}, v_{159}), \mathrm{multiply}((4 + v_{152}), v_{152}, v_{153}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{154} \to (3 + v_{152}), v_{155} \to (1 + v_{157}), v_{156} \to (2 + v_{152}), v_{157} \to (1 + v_{159}), v_{158} \to (1 + v_{152}) \,]$

O
$\mathrm{add}((1 + v_{152}), v_{153}, v_{159})$

C
$\mathrm{add}(v_{160}, (4 + v_{149}), v_{147}), \mathrm{add}(v_{160}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{160}, (4 + v_{161}), v_{151}), \mathrm{add}(v_{160}, v_{153}, v_{161}), \mathrm{multiply}((4 + v_{160}), v_{160}, v_{153}), \mathrm{add}((1 + v_{147}), v_{81}, v_{145}), \mathrm{add}(v_{66}, (3 + v_{145}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{146} \to v_{148}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{152} \to v_{160}, v_{154} \to (3 + v_{152}), v_{155} \to (1 + v_{157}), v_{156} \to (2 + v_{152}), v_{157} \to (1 + v_{159}), v_{158} \to (1 + v_{152}), v_{159} \to (1 + v_{161}) \,]$

O
$\mathrm{add}((1 + v_{147}), v_{81}, v_{145})$

C
$\mathrm{add}(v_{160}, (4 + v_{149}), v_{162}), \mathrm{add}(v_{160}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{160}, (4 + v_{161}), v_{151}), \mathrm{add}(v_{160}, v_{153}, v_{161}), \mathrm{multiply}((4 + v_{160}), v_{160}, v_{153}), \mathrm{add}(v_{162}, v_{81}, v_{163}), \mathrm{add}(v_{66}, (4 + v_{163}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{145} \to (1 + v_{163}), v_{146} \to v_{148}, v_{147} \to v_{162}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{152} \to v_{160}, v_{154} \to (3 + v_{152}), v_{155} \to (1 + v_{157}), v_{156} \to (2 + v_{152}), v_{157} \to (1 + v_{159}), v_{158} \to (1 + v_{152}), v_{159} \to (1 + v_{161}) \,]$

Leaf
$\mathrm{add}(v_{160}, (4 + v_{149}), v_{162}), \mathrm{add}(v_{160}, (4 + v_{151}), v_{149}), \mathrm{add}(v_{160}, (4 + v_{161}), v_{151}), \mathrm{add}(v_{160}, v_{153}, v_{161}), \mathrm{multiply}((4 + v_{160}), v_{160}, v_{153}), \mathrm{add}(v_{162}, v_{81}, v_{163}), \mathrm{add}(v_{66}, (4 + v_{163}), v_{55})$
$[\, v_{135} \to (1 + v_{149}), v_{137} \to (1 + v_{155}), v_{142} \to (1 + v_{146}), v_{143} \to (1 + v_{151}), v_{144} \to (1 + v_{147}), v_{145} \to (1 + v_{163}), v_{146} \to v_{148}, v_{147} \to v_{162}, v_{148} \to v_{150}, v_{150} \to v_{152}, v_{152} \to v_{160}, v_{154} \to (3 + v_{152}), v_{155} \to (1 + v_{157}), v_{156} \to (2 + v_{152}), v_{157} \to (1 + v_{159}), v_{158} \to (1 + v_{152}), v_{159} \to (1 + v_{161}) \,]$