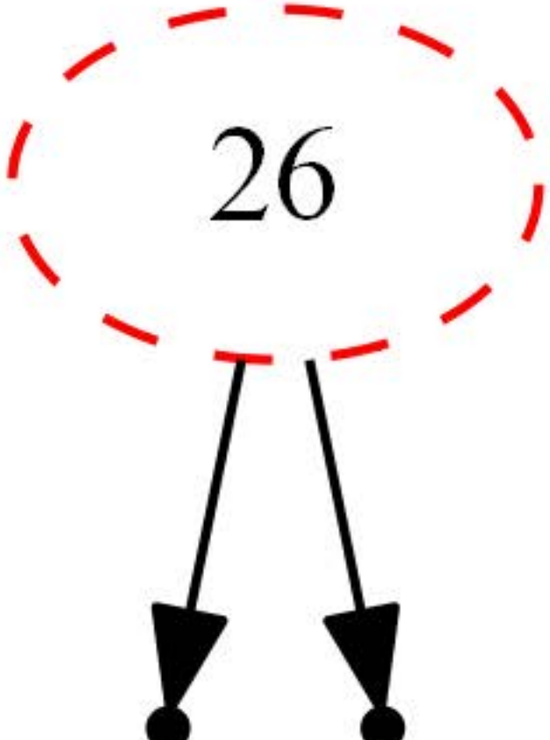
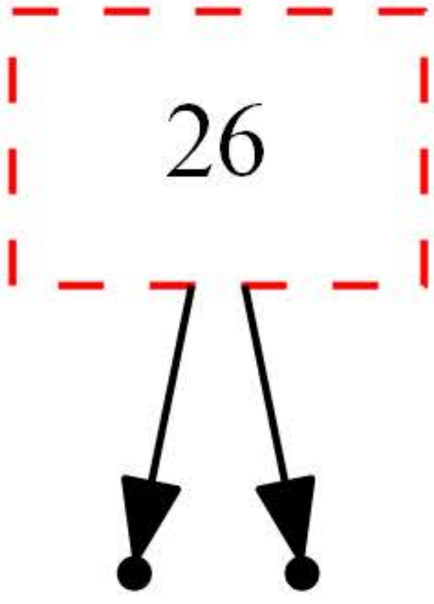
Insert26-After-top-down-pass

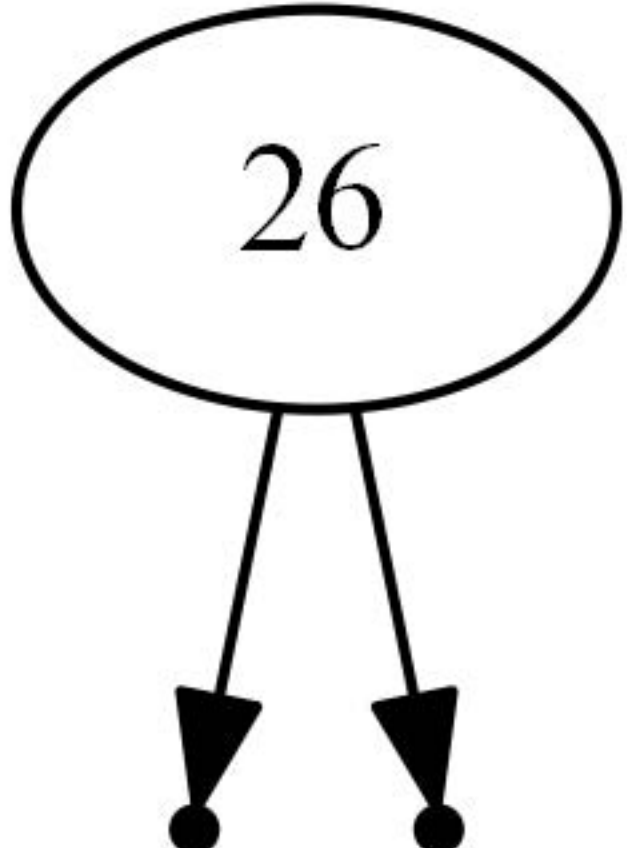


Parent is Black. Terminate buttom-up pass.

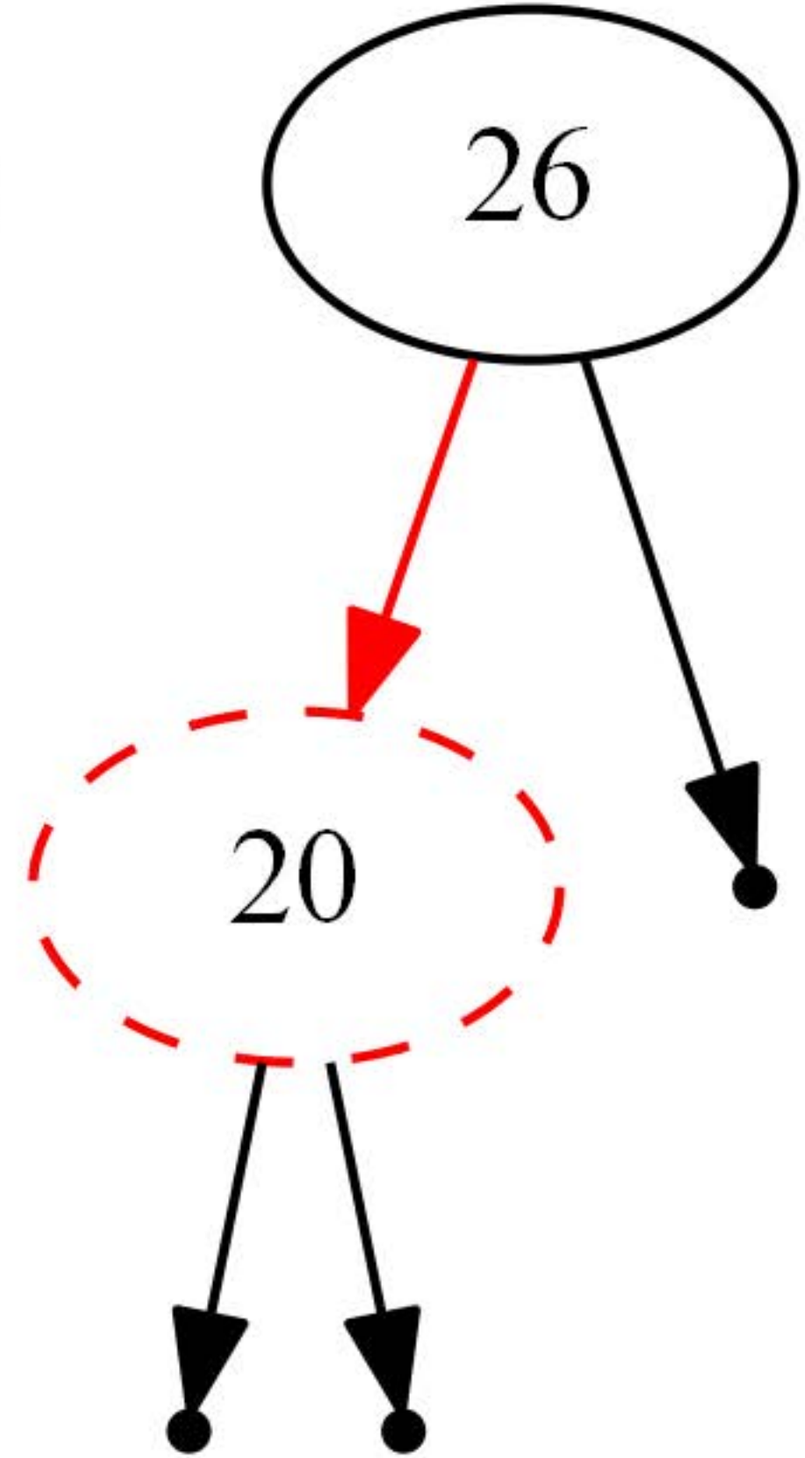


Insert26-After-Bottom-up-pass

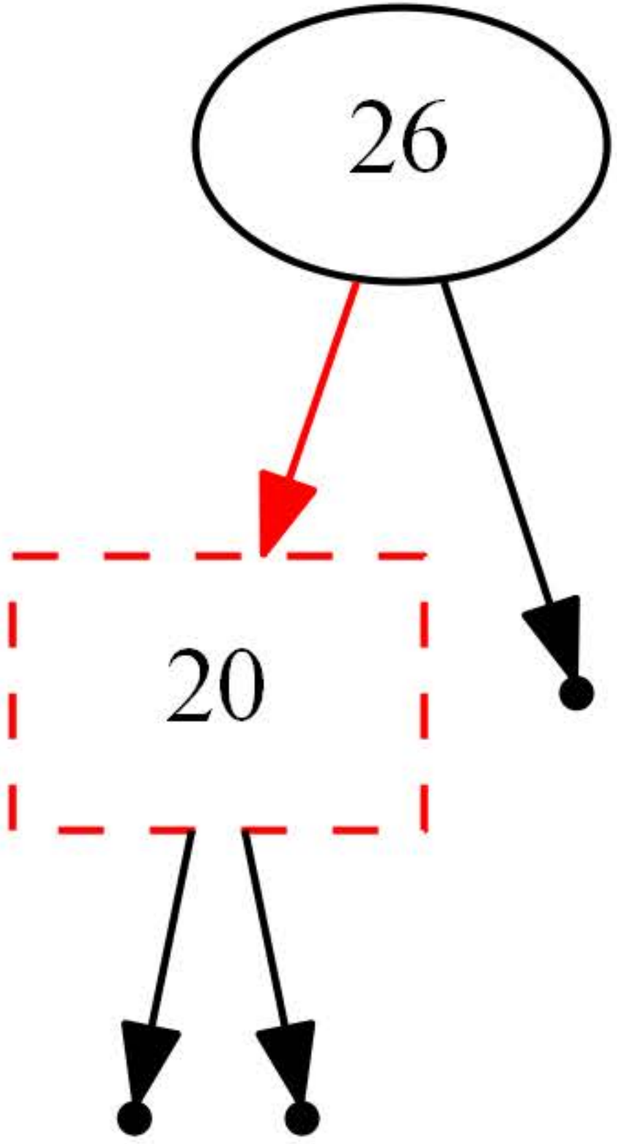
Insert20-Start



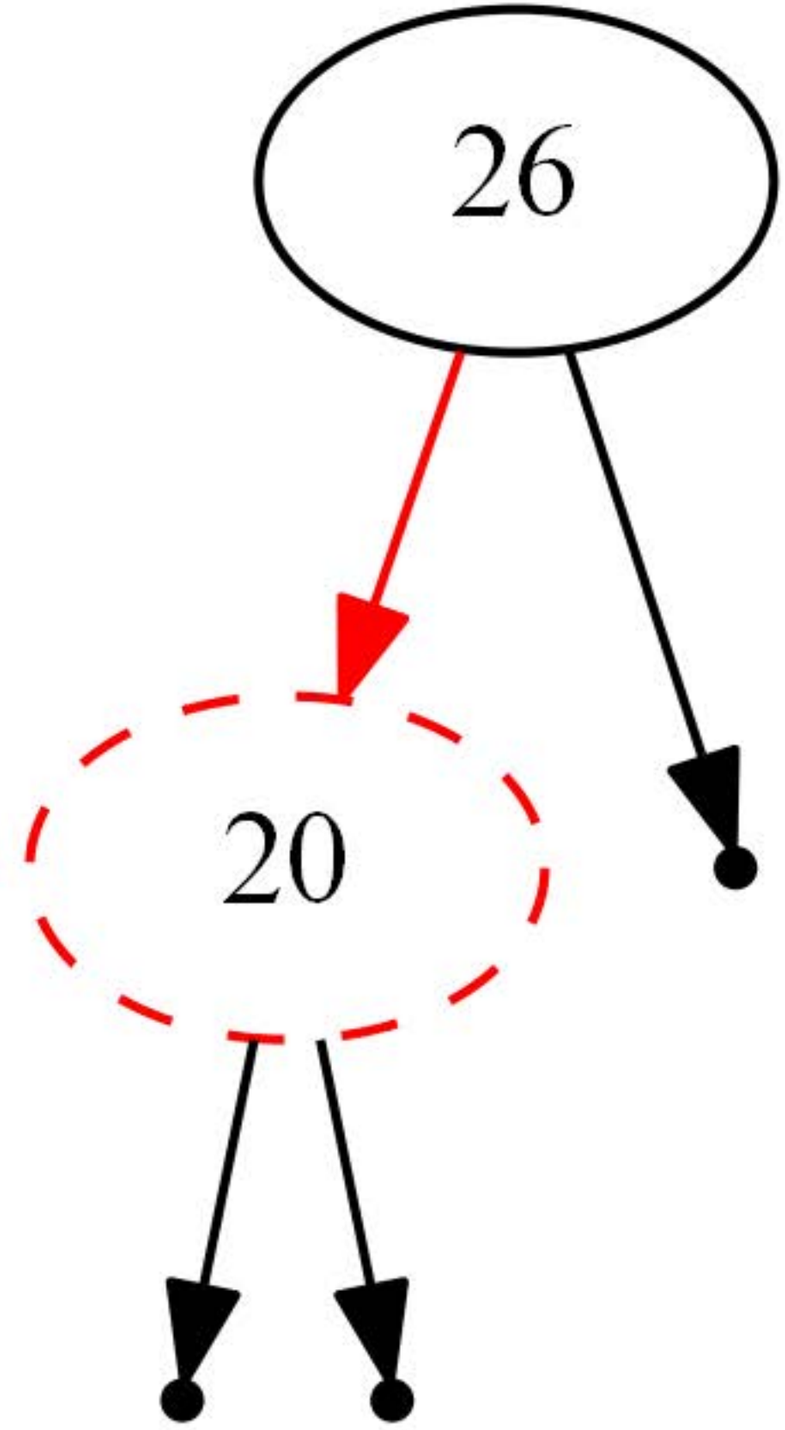
Insert20-After-top-down-pass



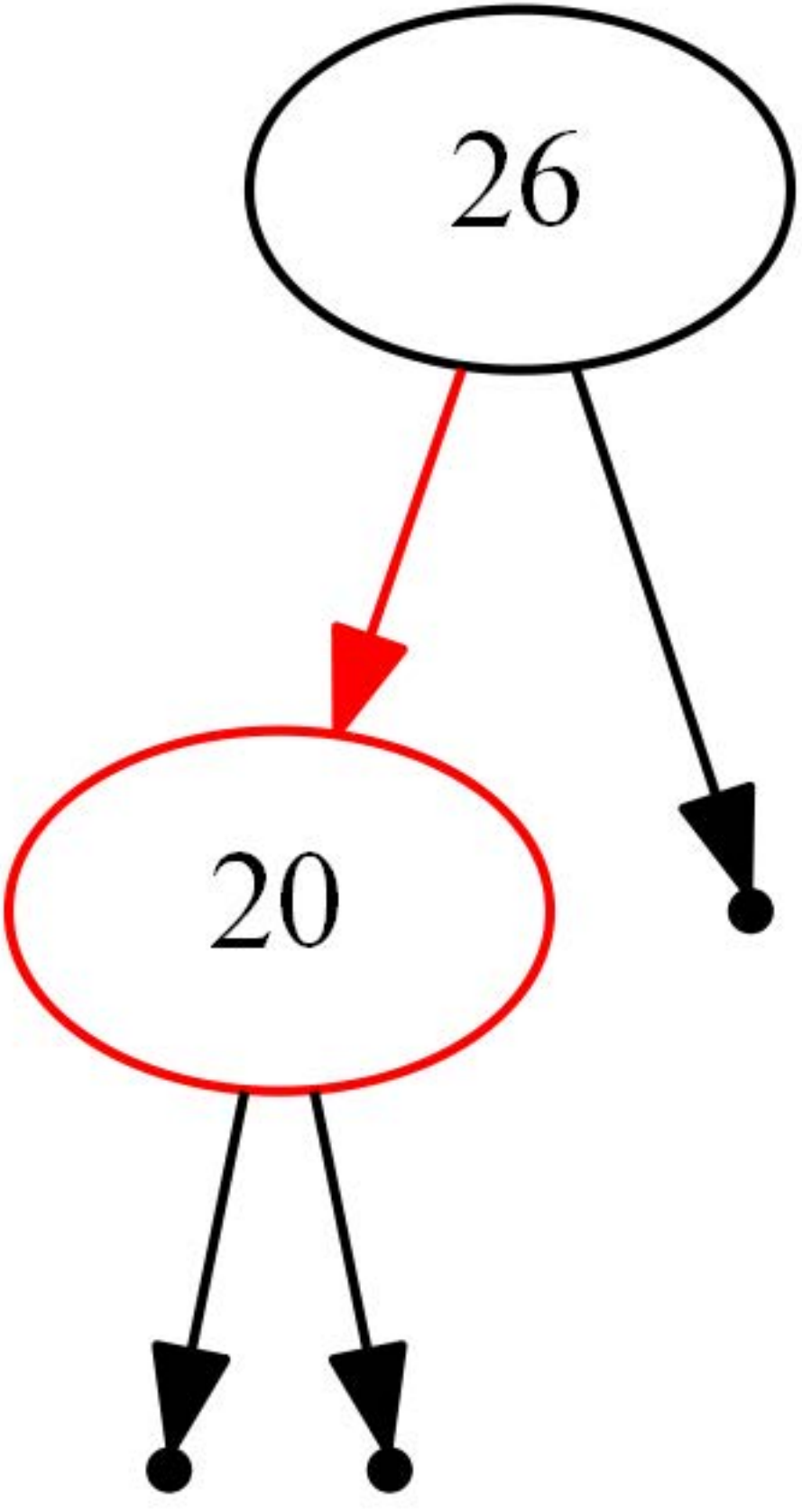
Parent is Black. Terminate buttom-up pass.



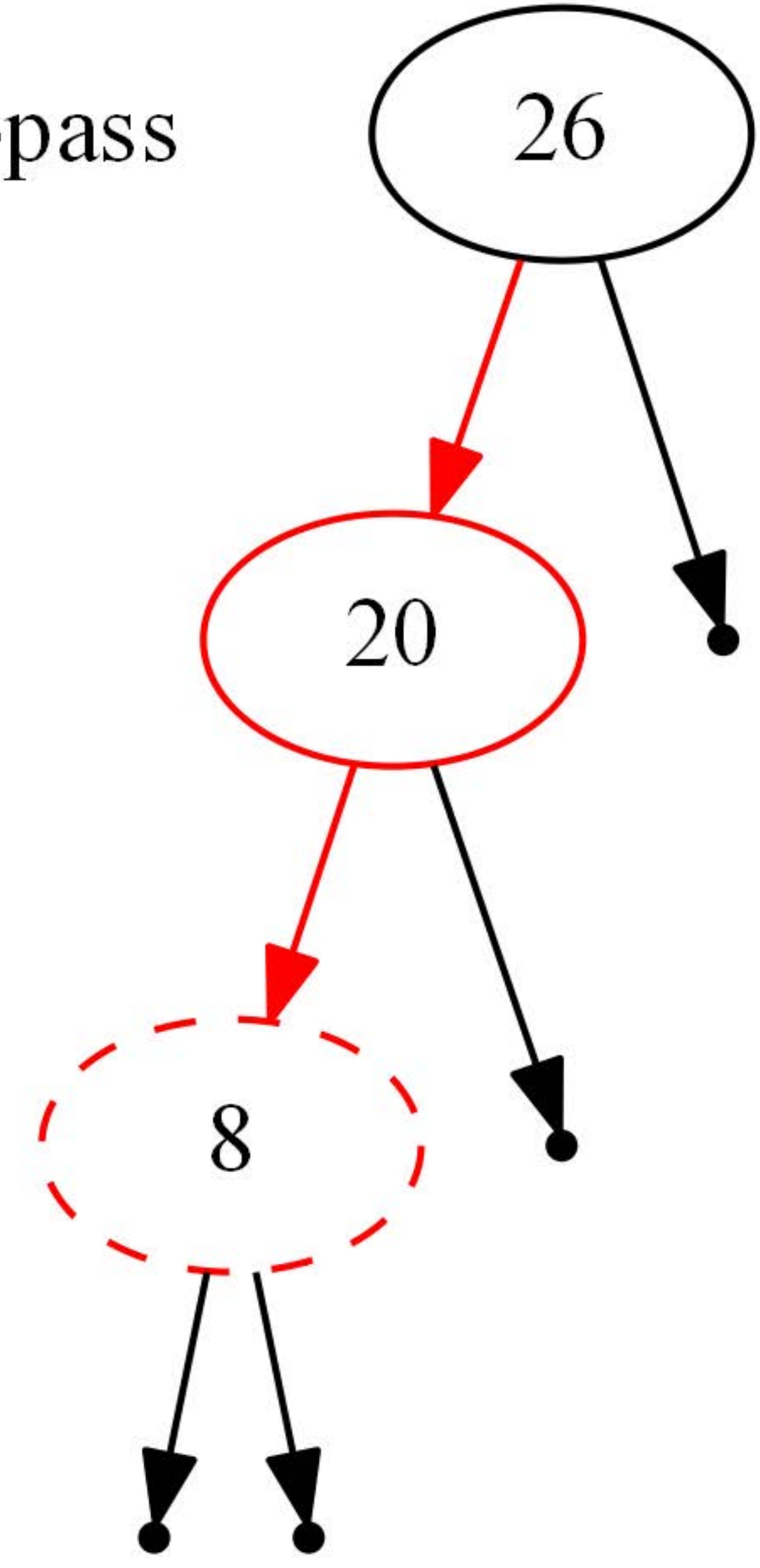
Insert20-After-Bottom-up-pass



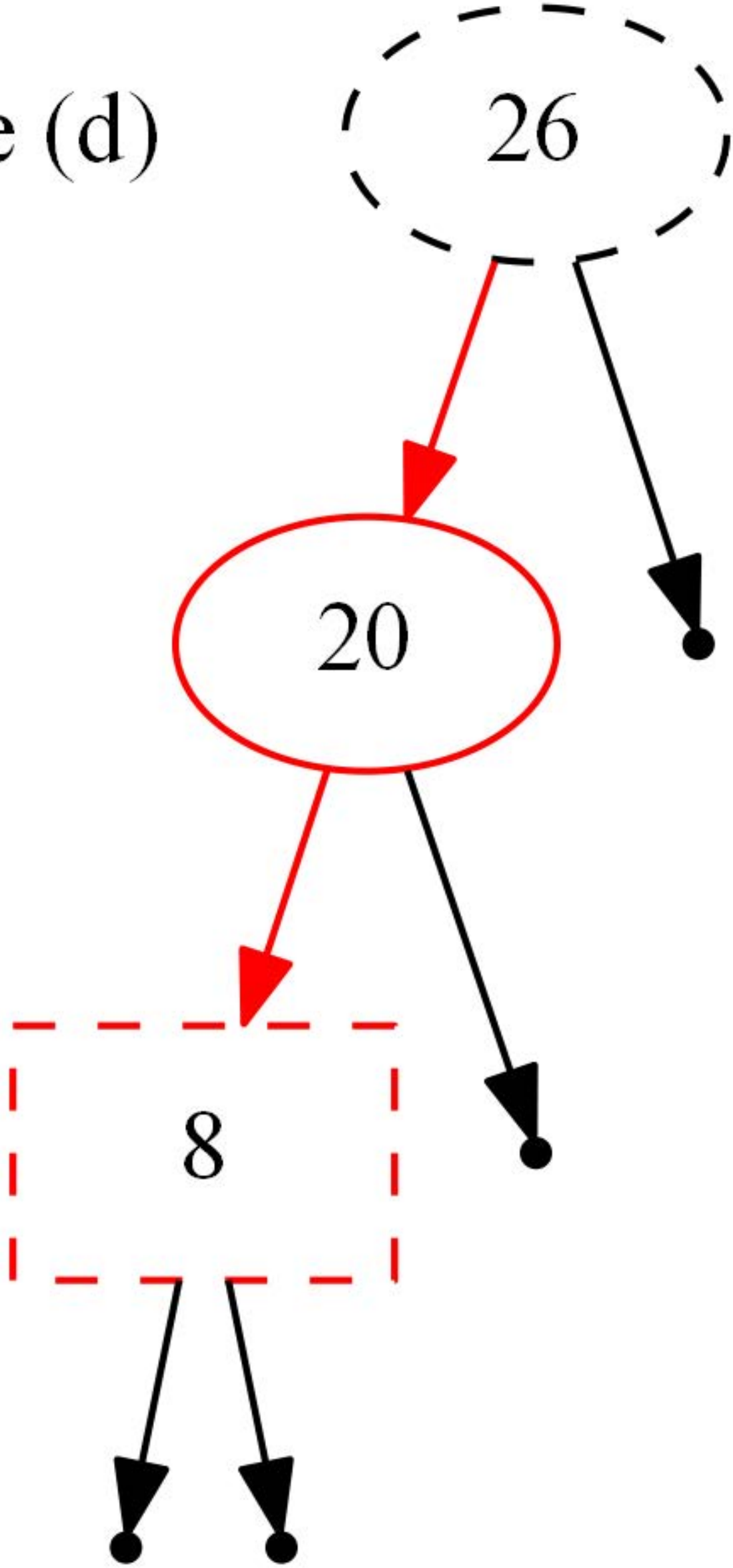
Insert8-Start



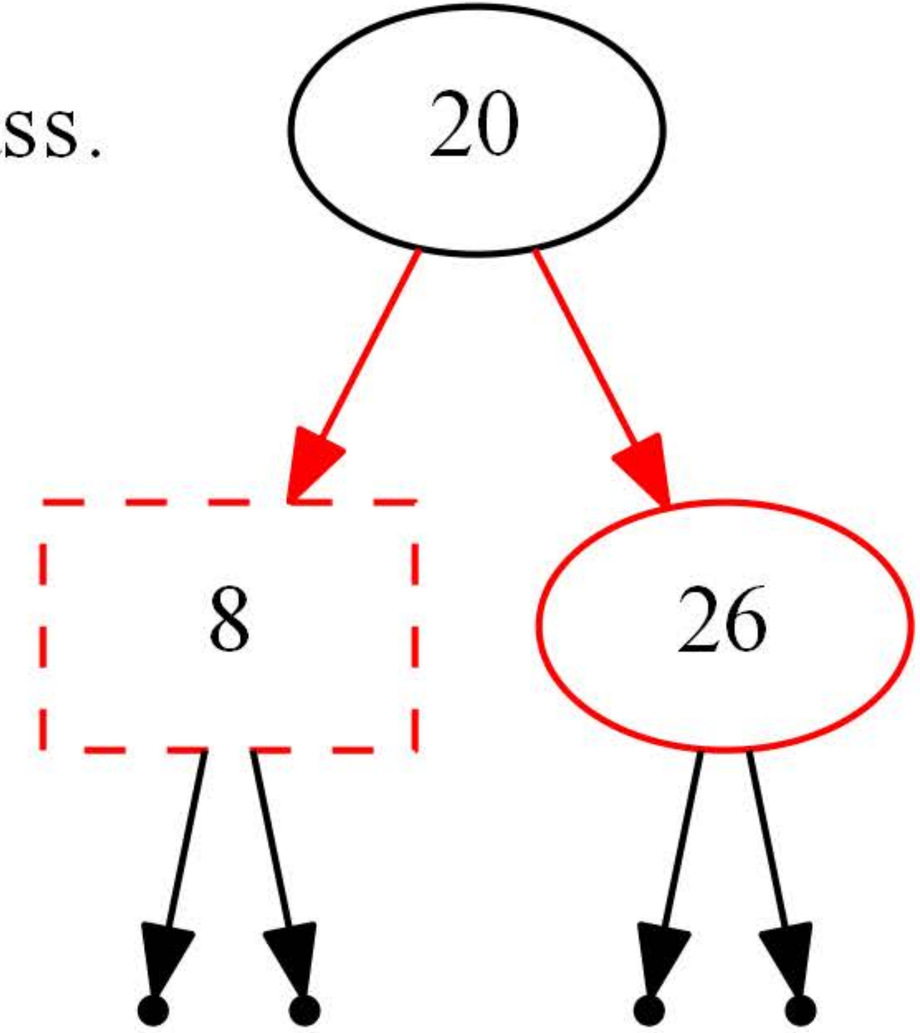
Insert8-After-top-down-pass



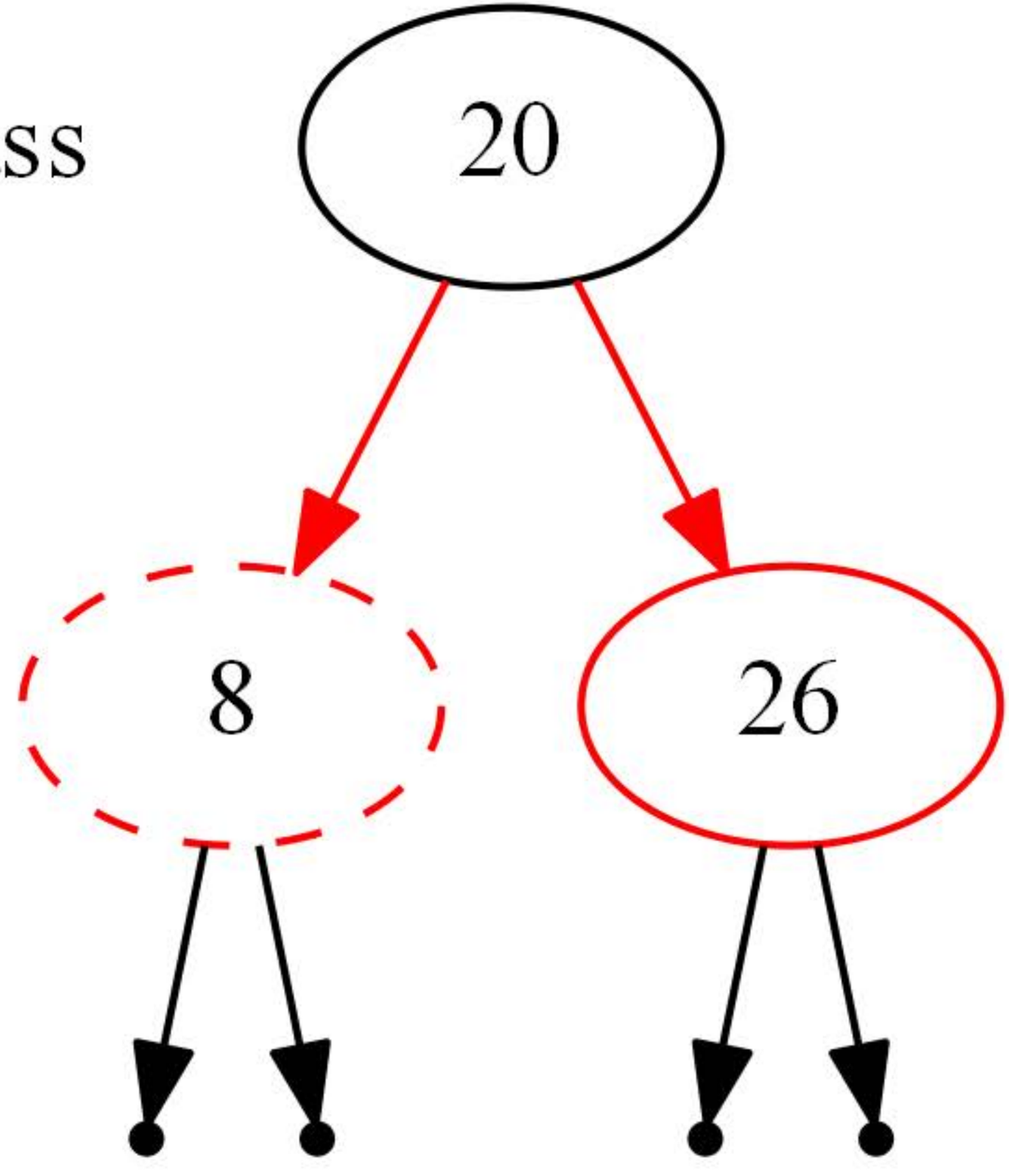
Rule (d)



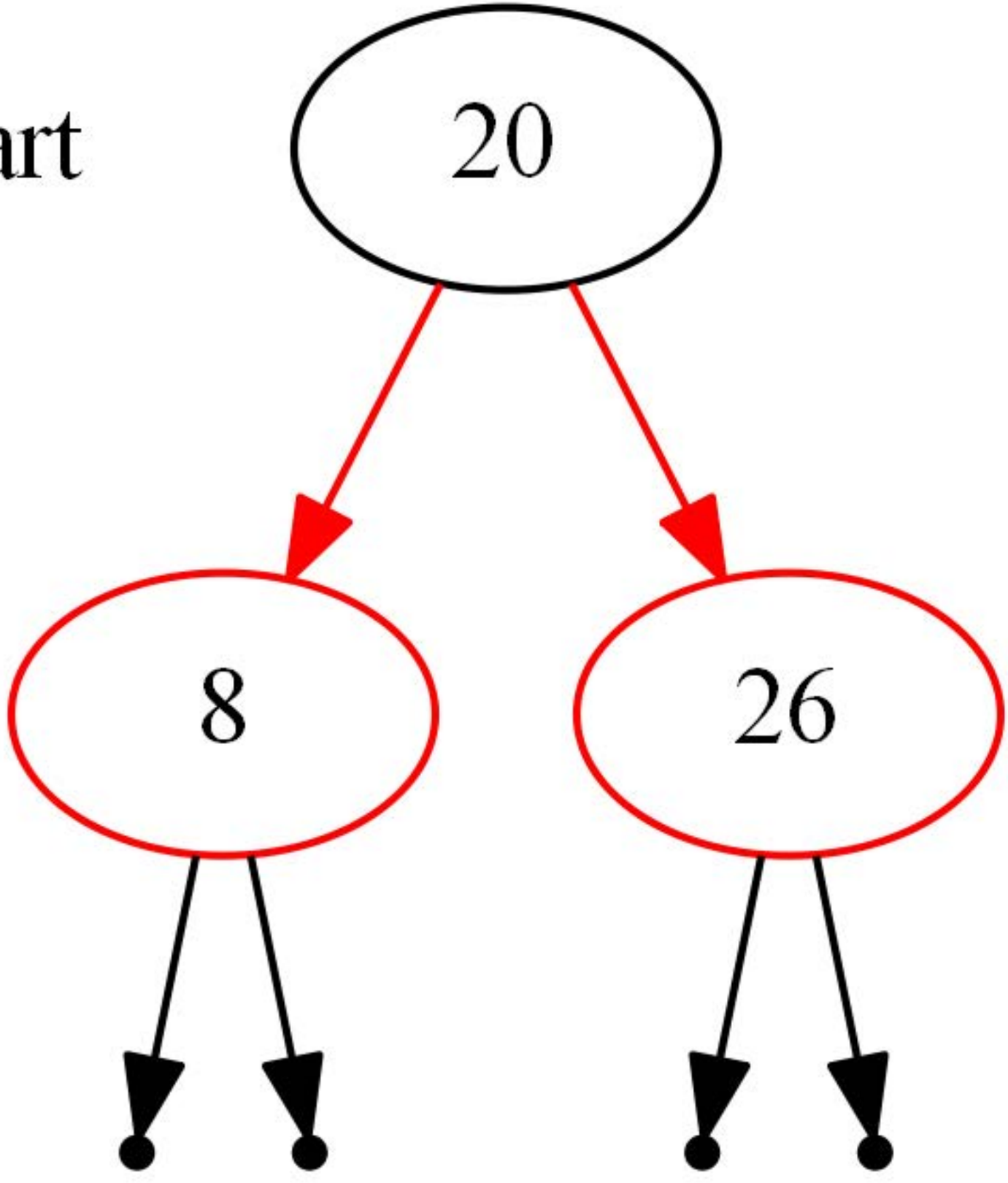
Parent is Black. Terminate buttom-up pass.



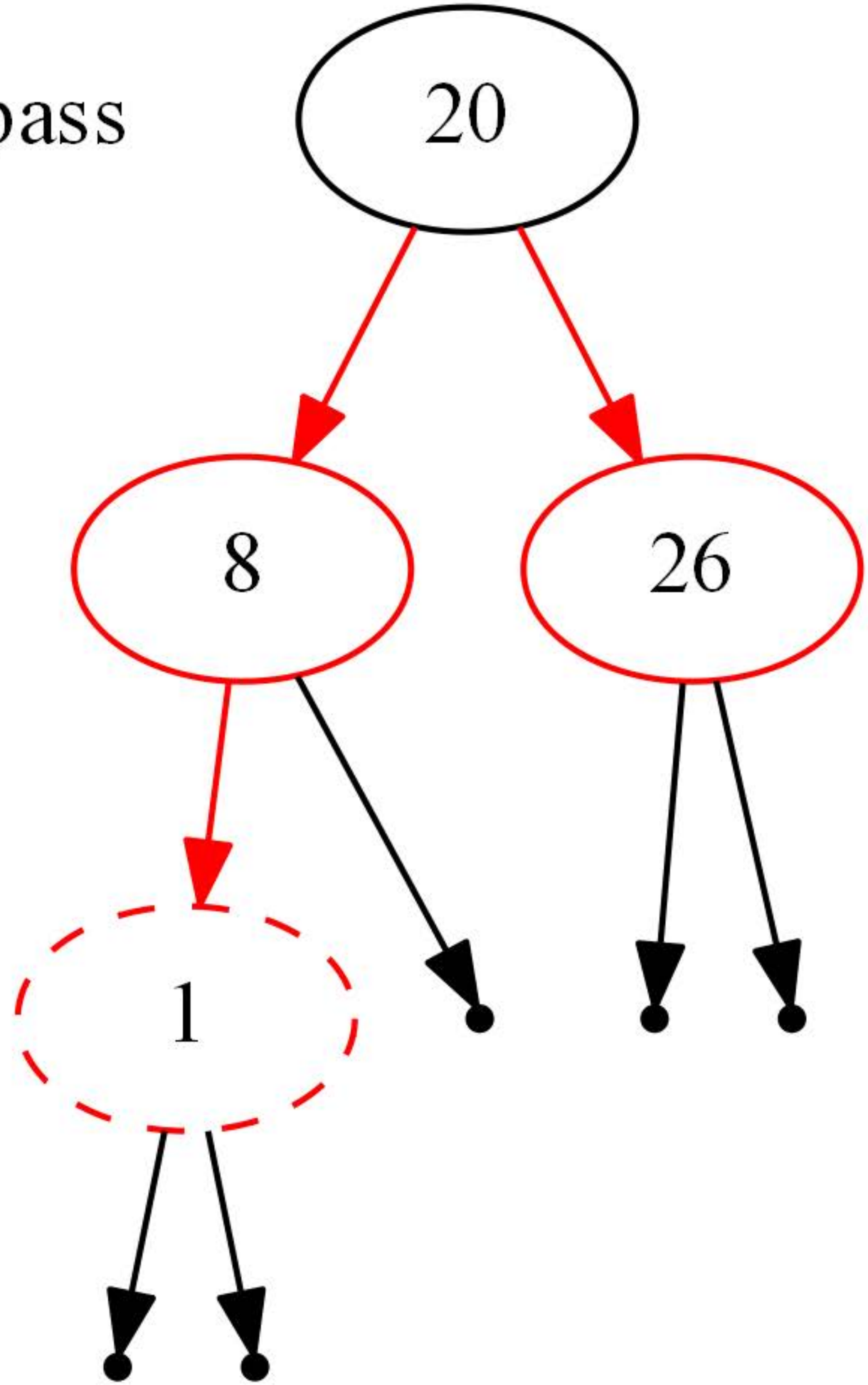
Insert8-After-Bottom-up-pass



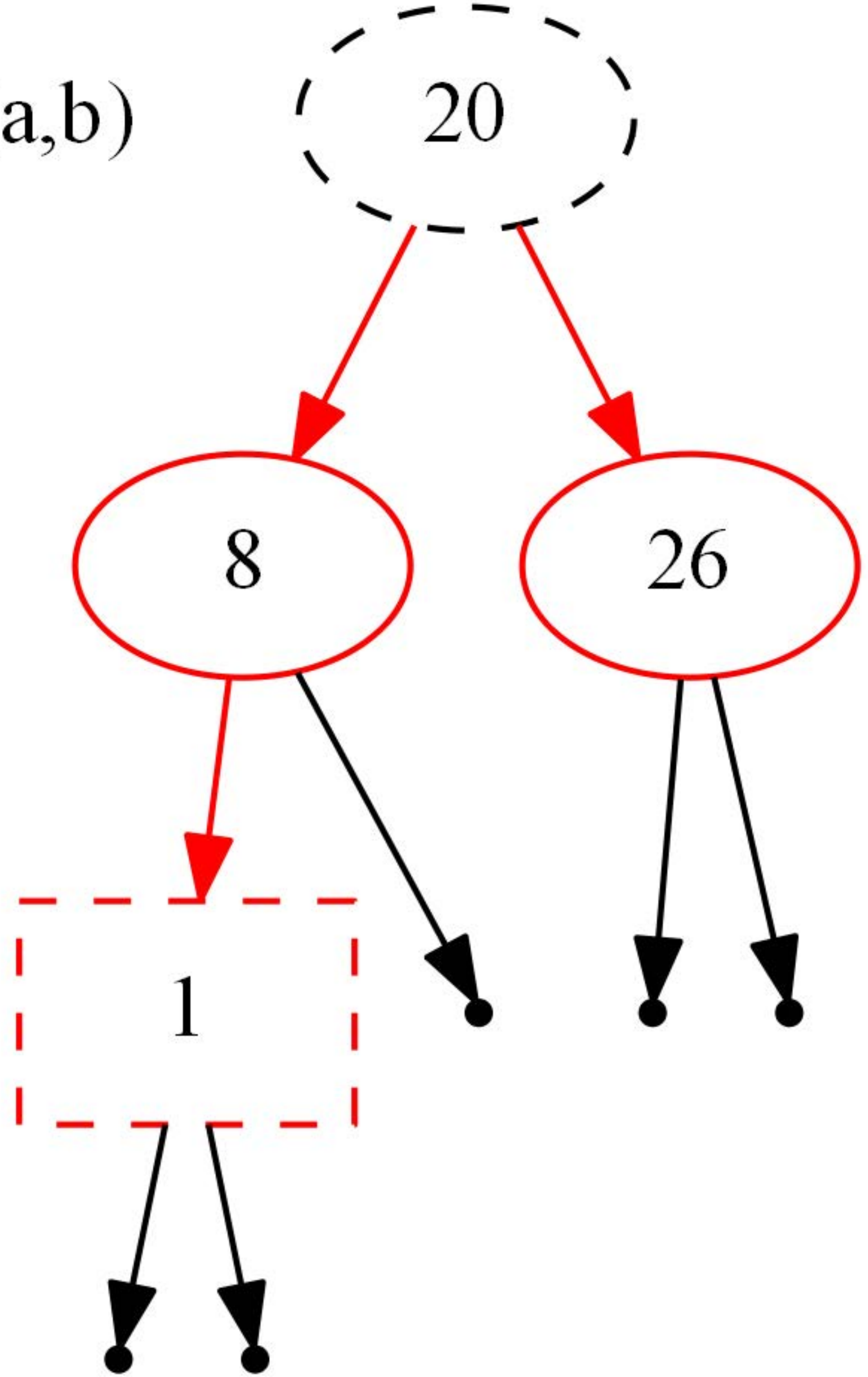
Insert1-Start



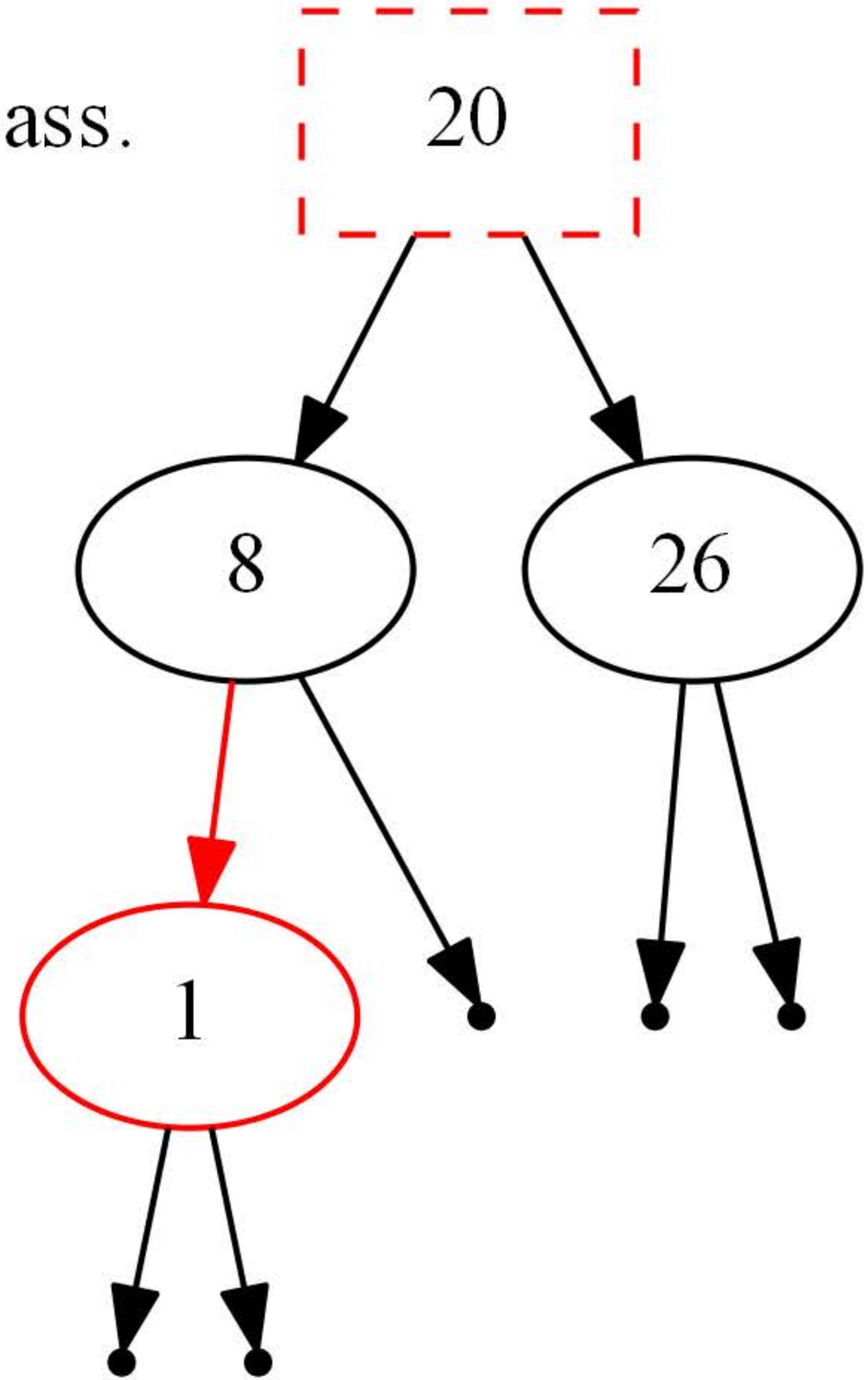
Insert1-After-top-down-pass



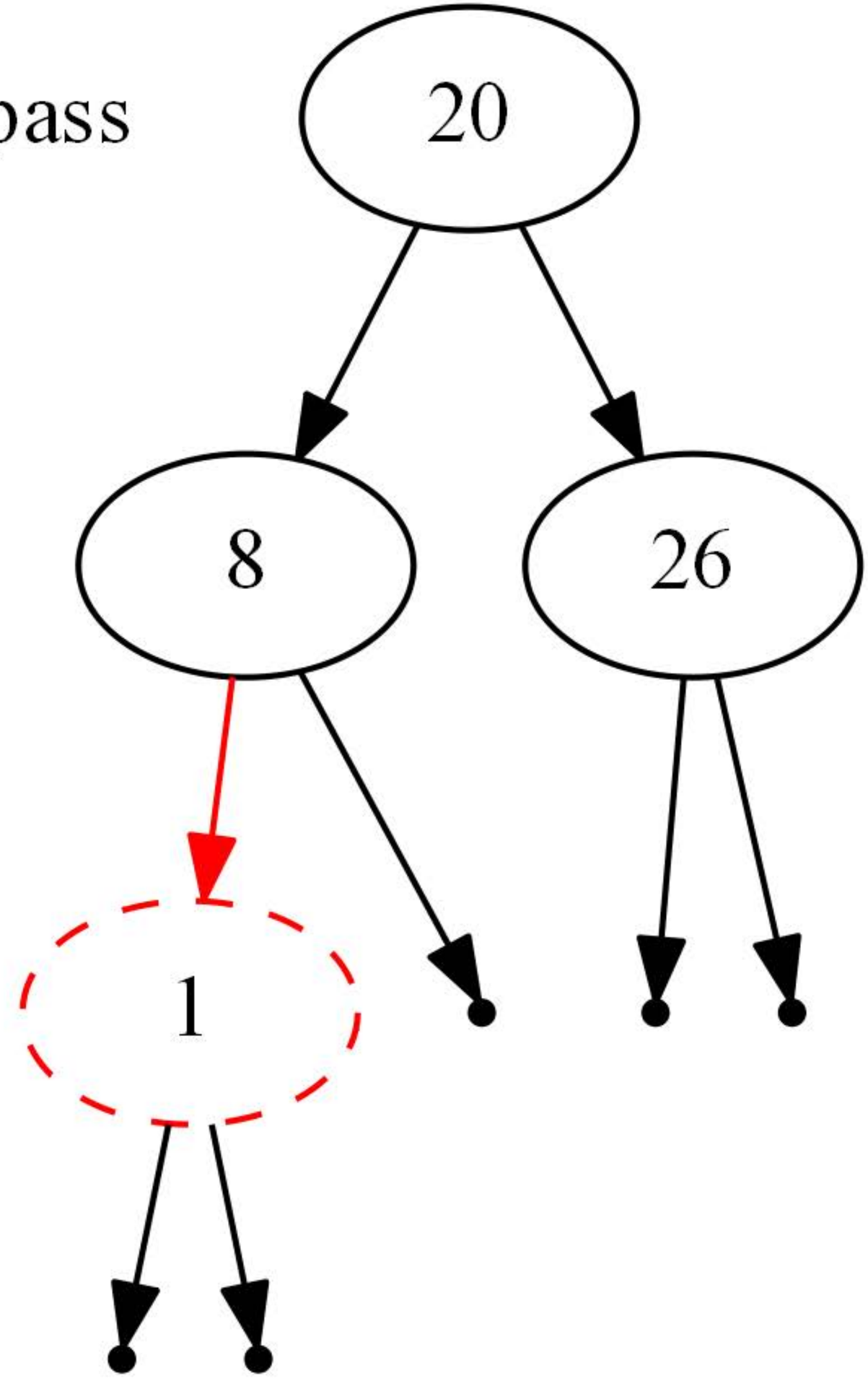
Rule (a,b)



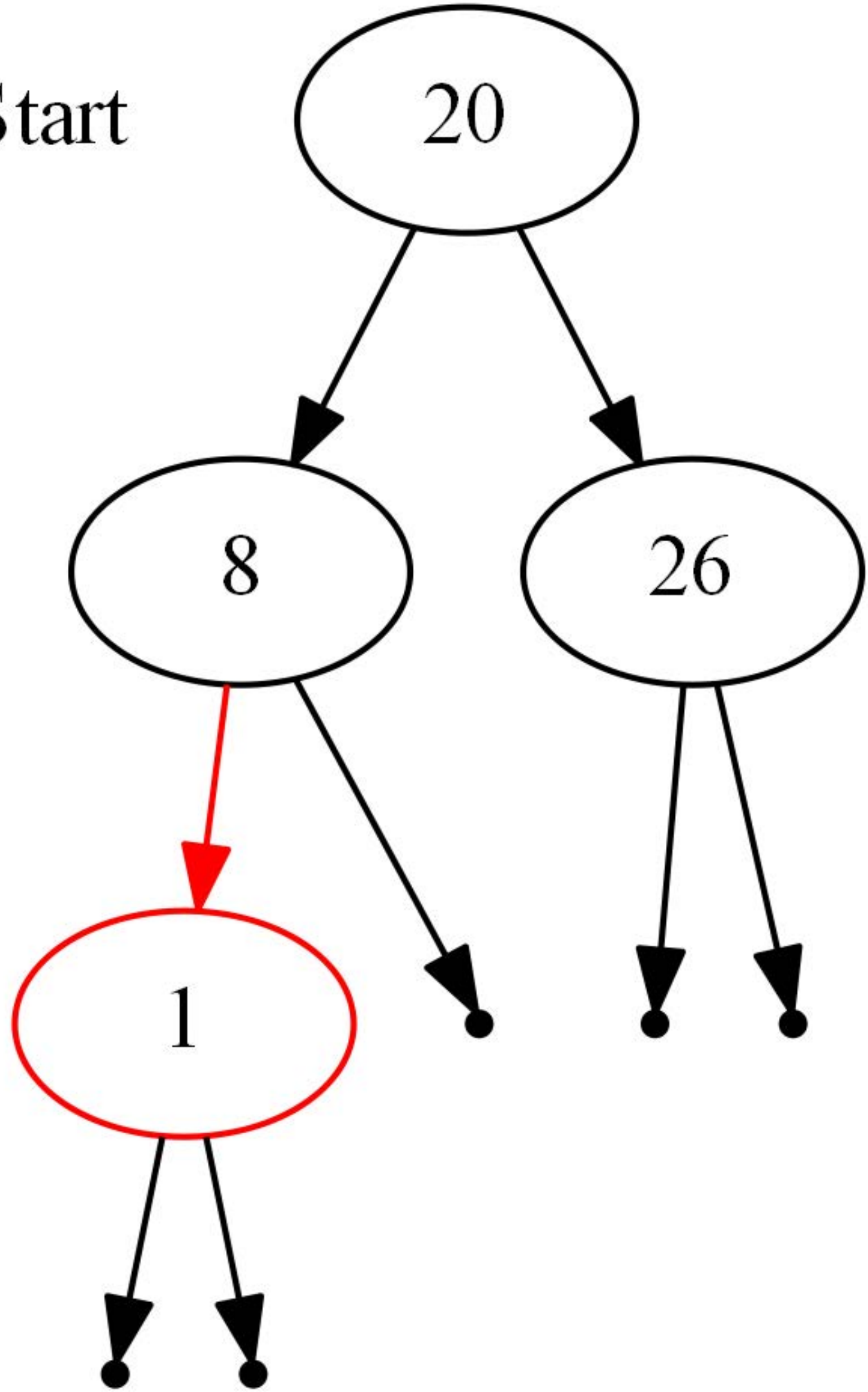
Parent is Black. Terminate buttom-up pass.



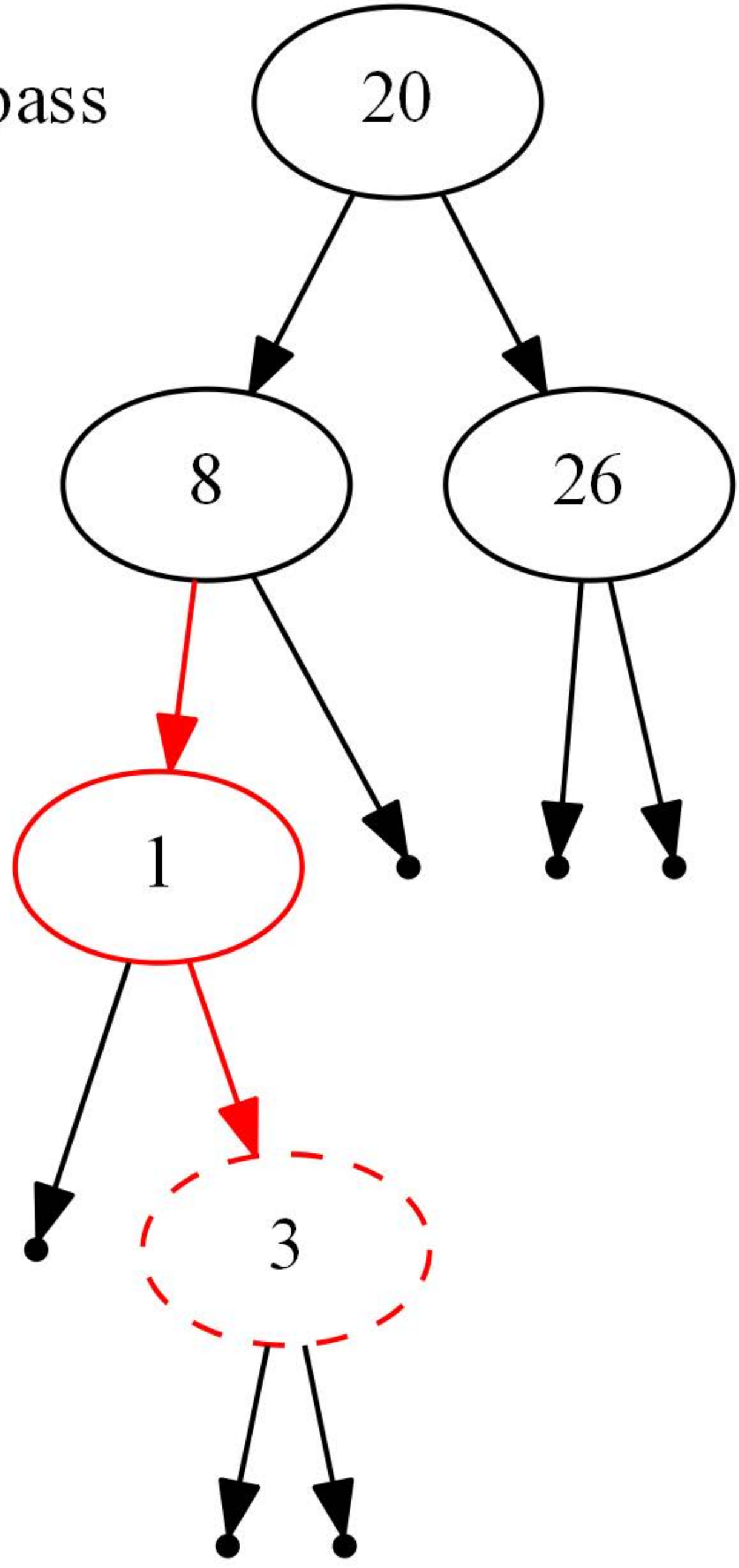
Insert1-After-Bottom-up-pass



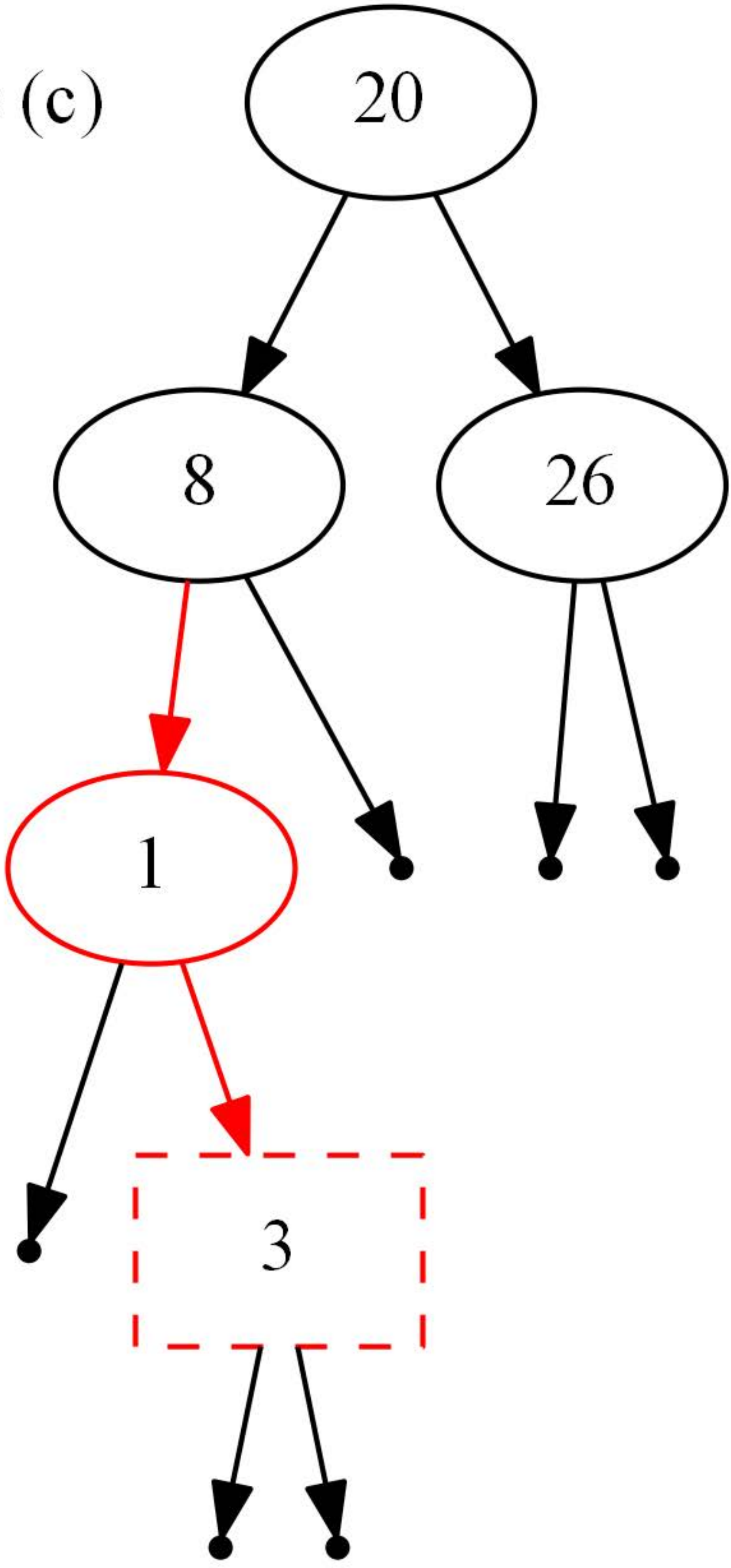
Insert3-Start

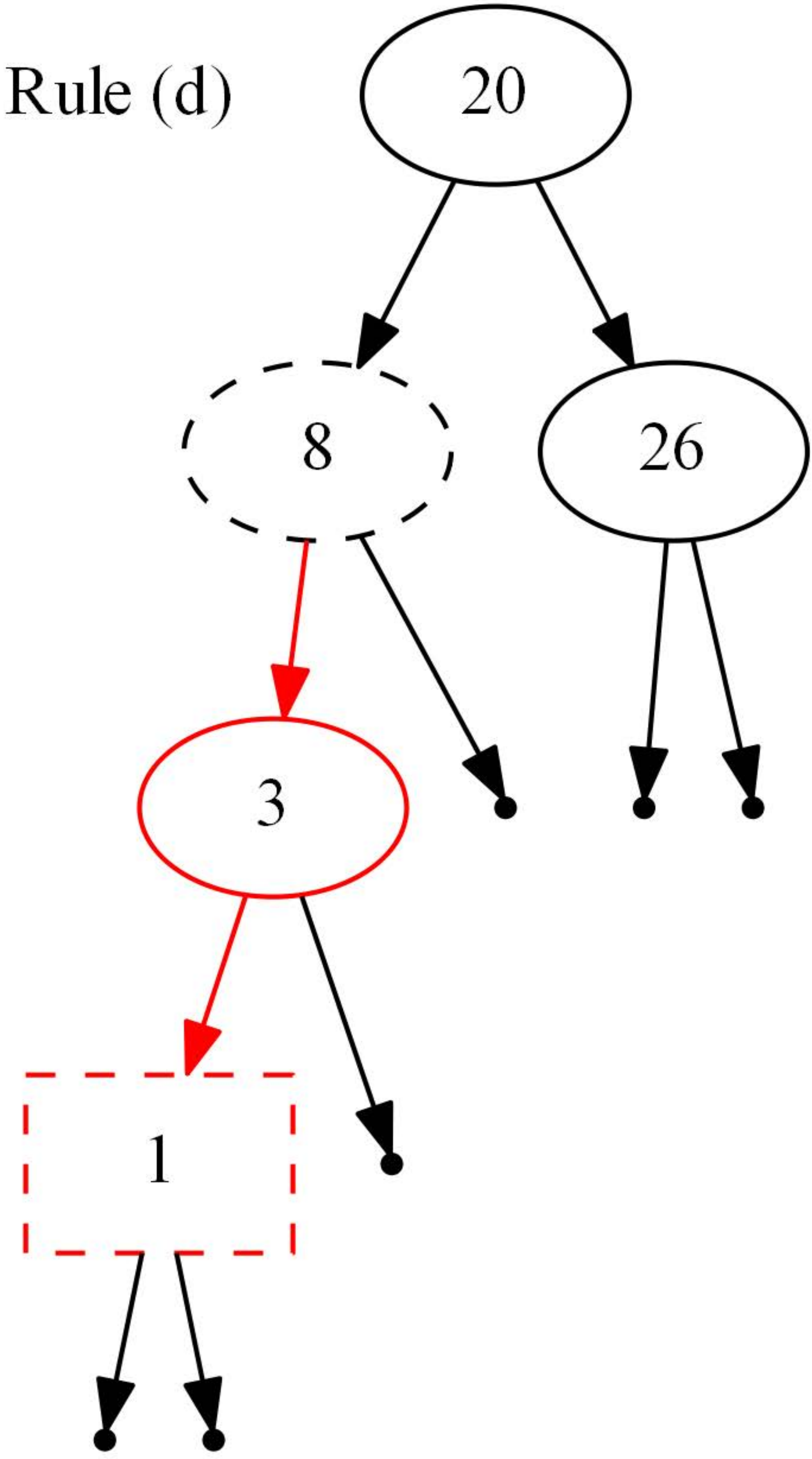


Insert3-After-top-down-pass



Rule (c)




Rule (d)
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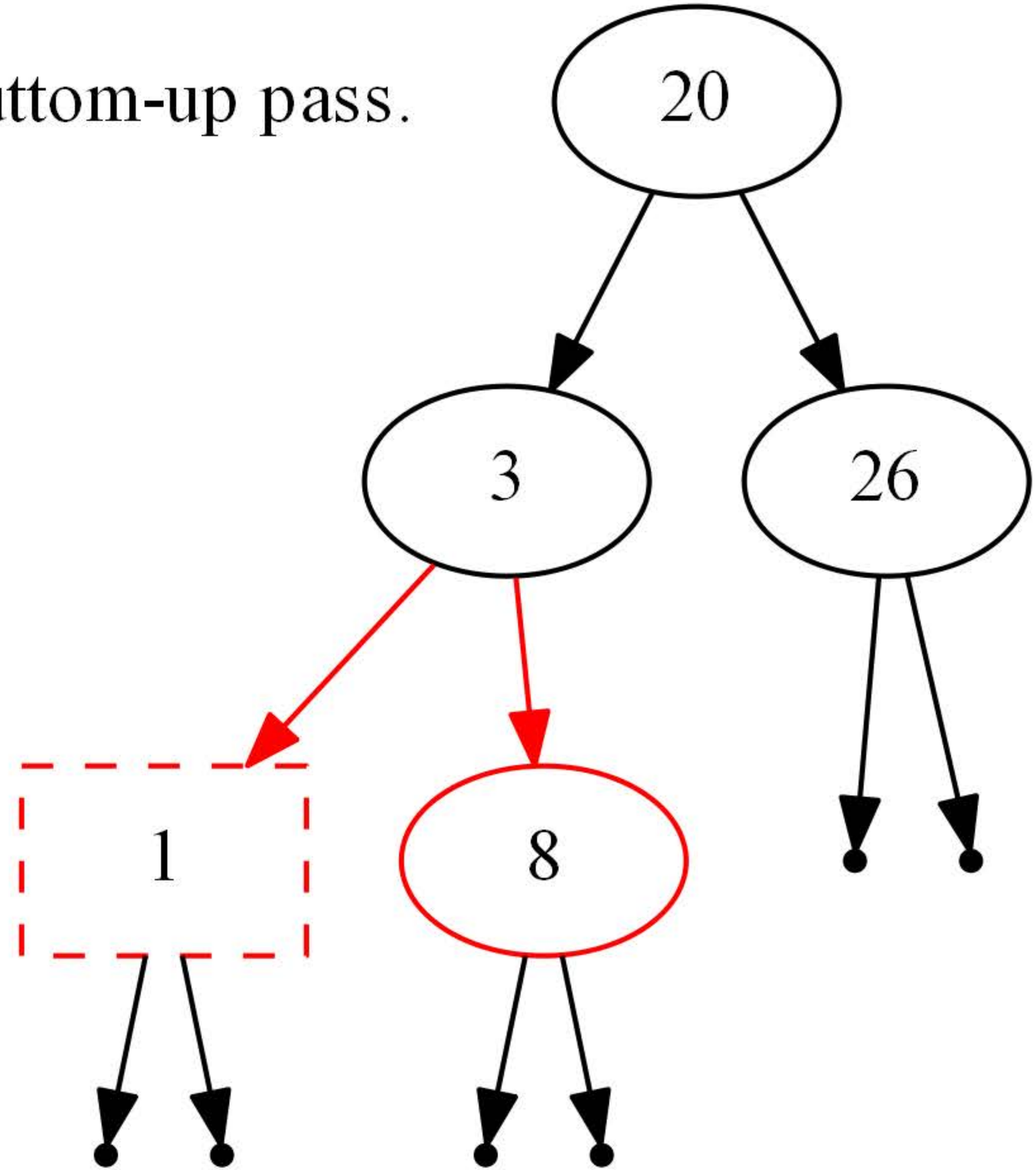
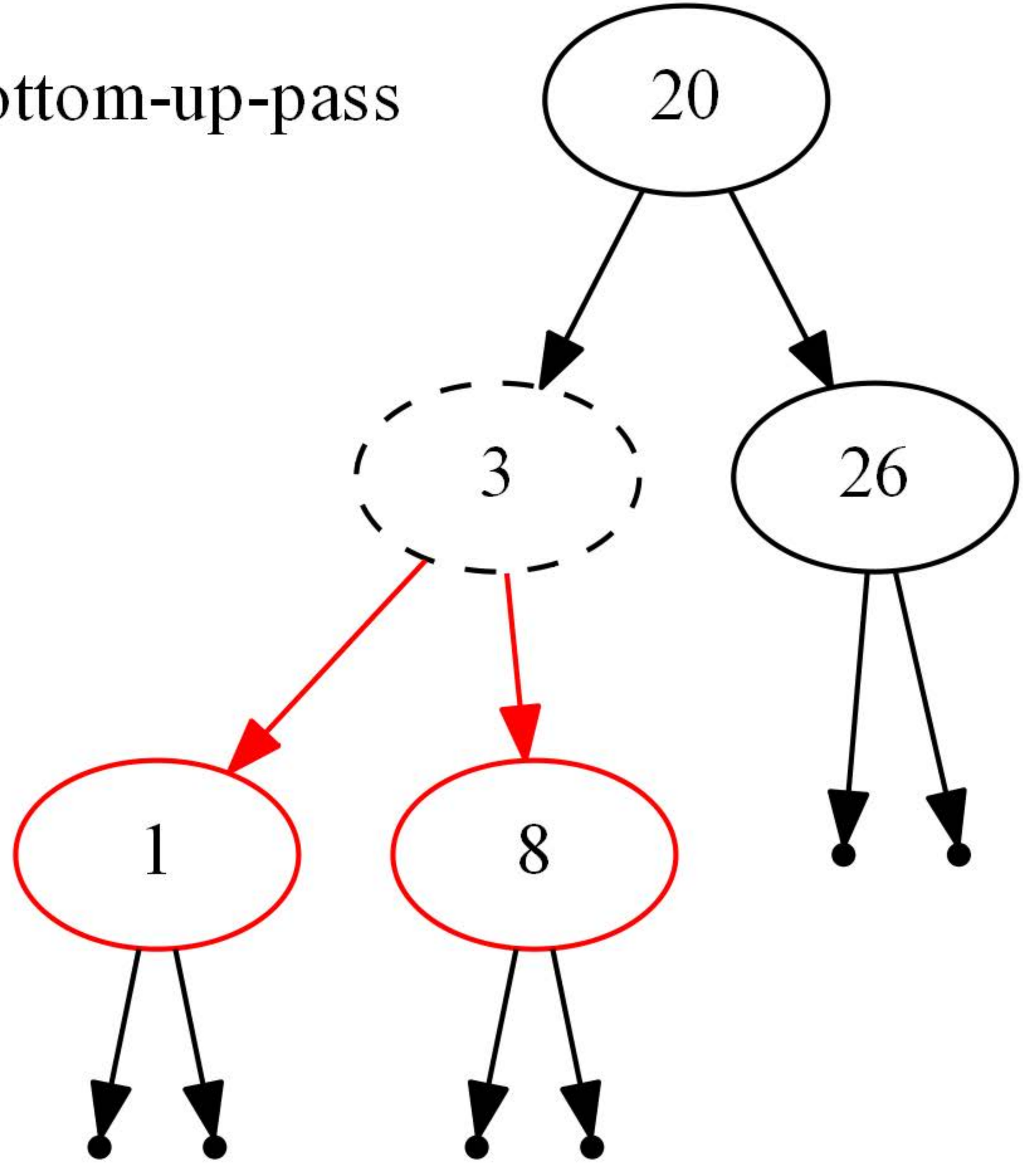
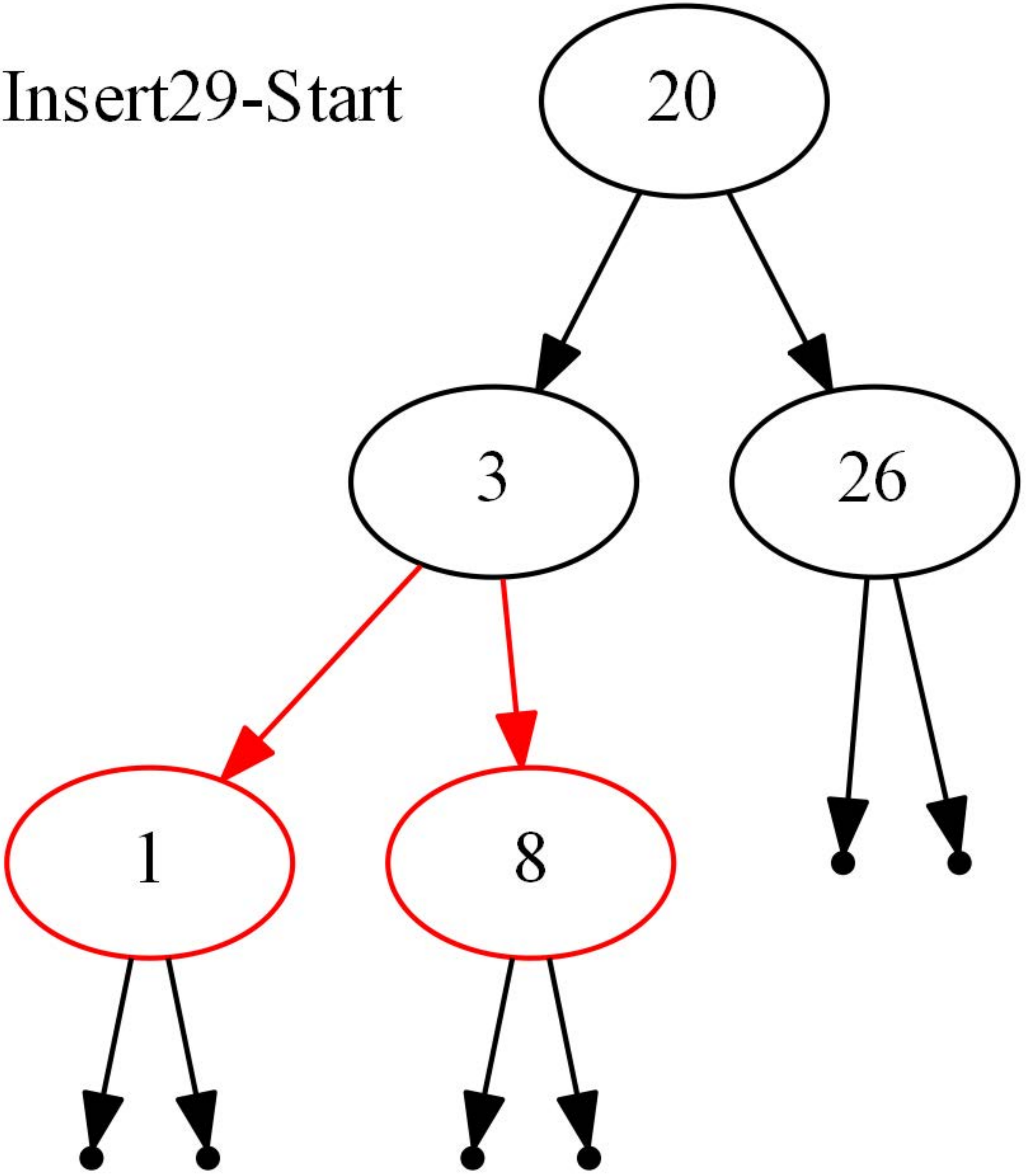
Parent is Black. Terminate buttom-up pass.



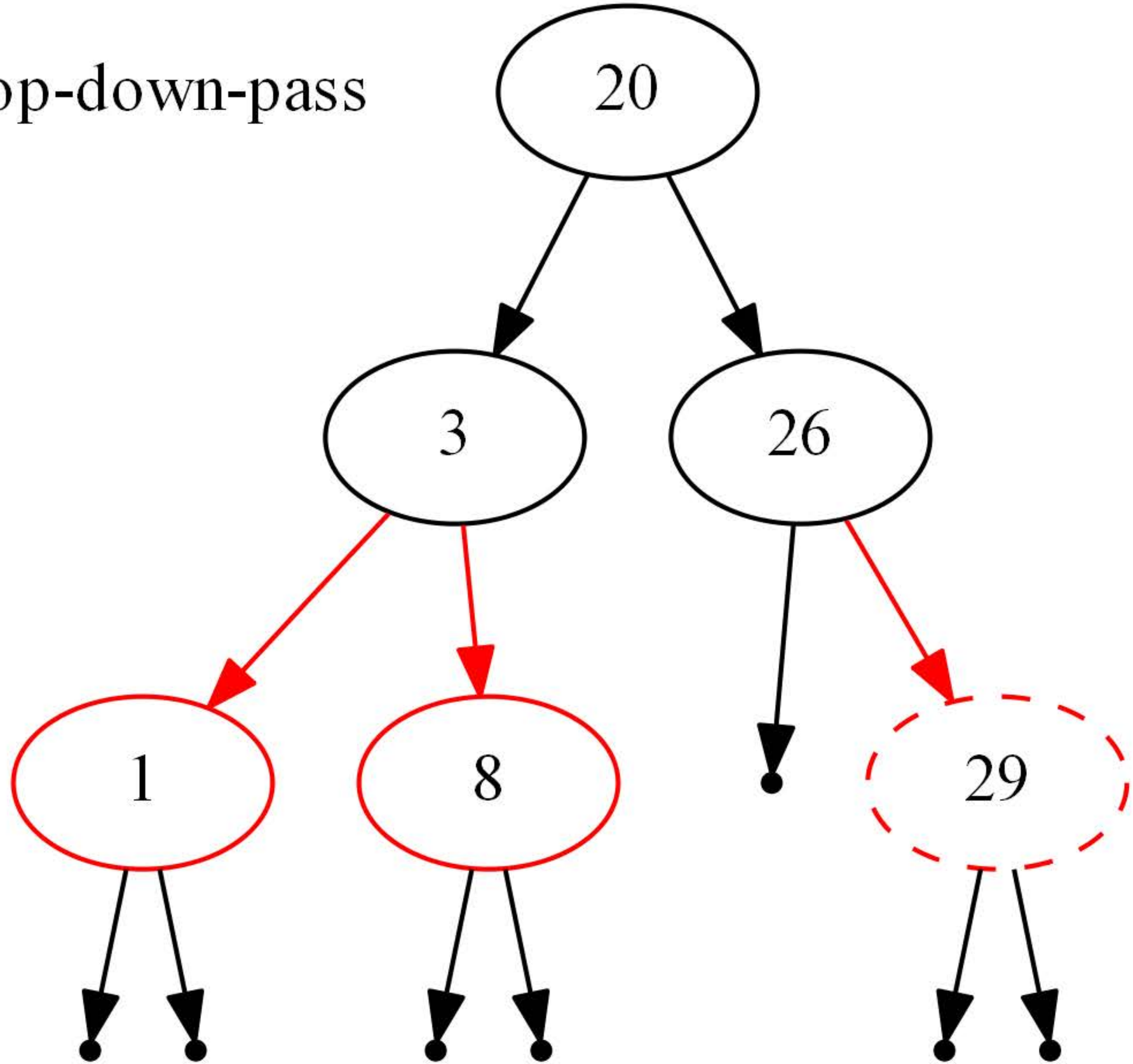
Insert3-After-Bottom-up-pass



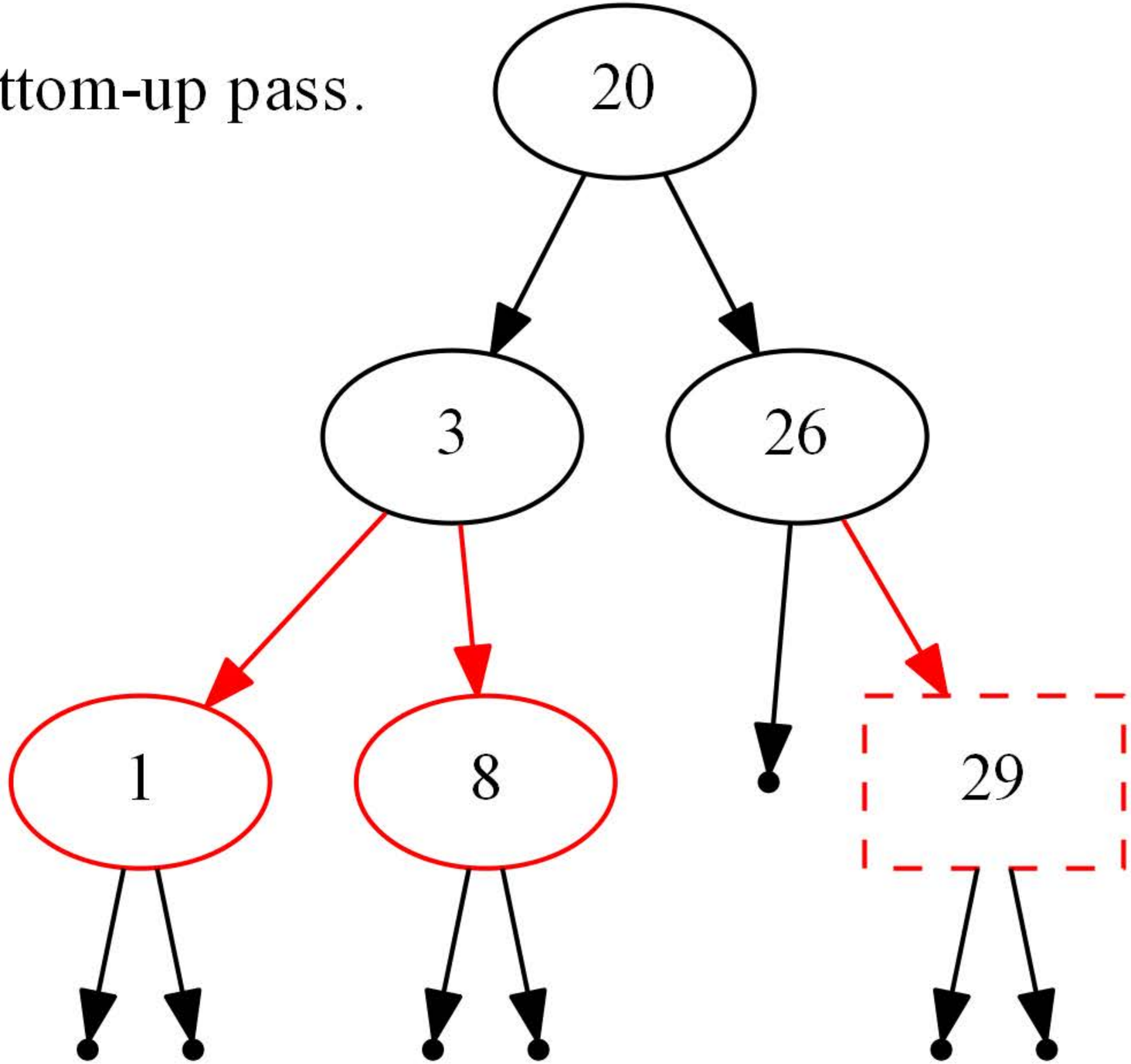
Insert29-Start



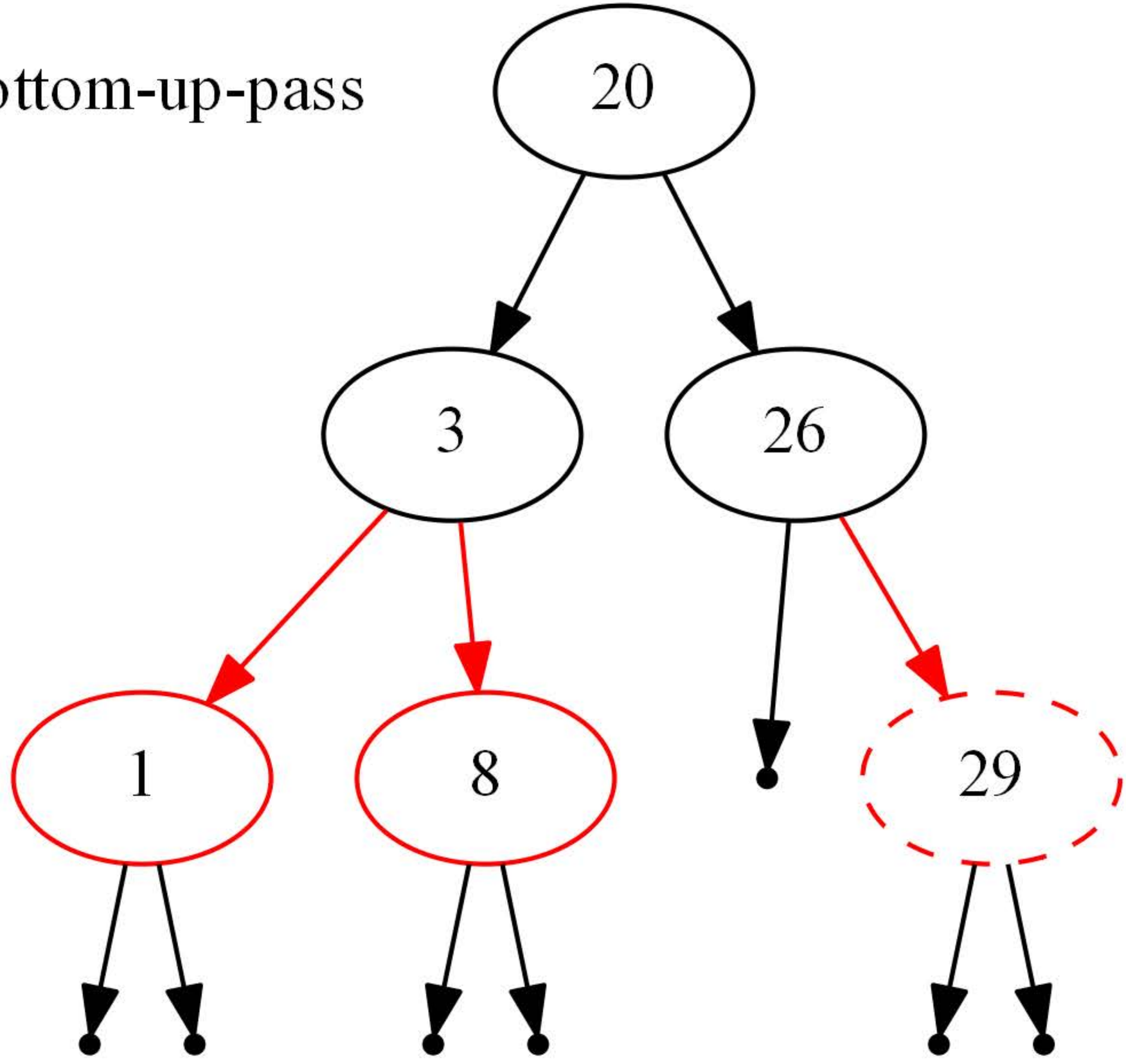
Insert29-After-top-down-pass



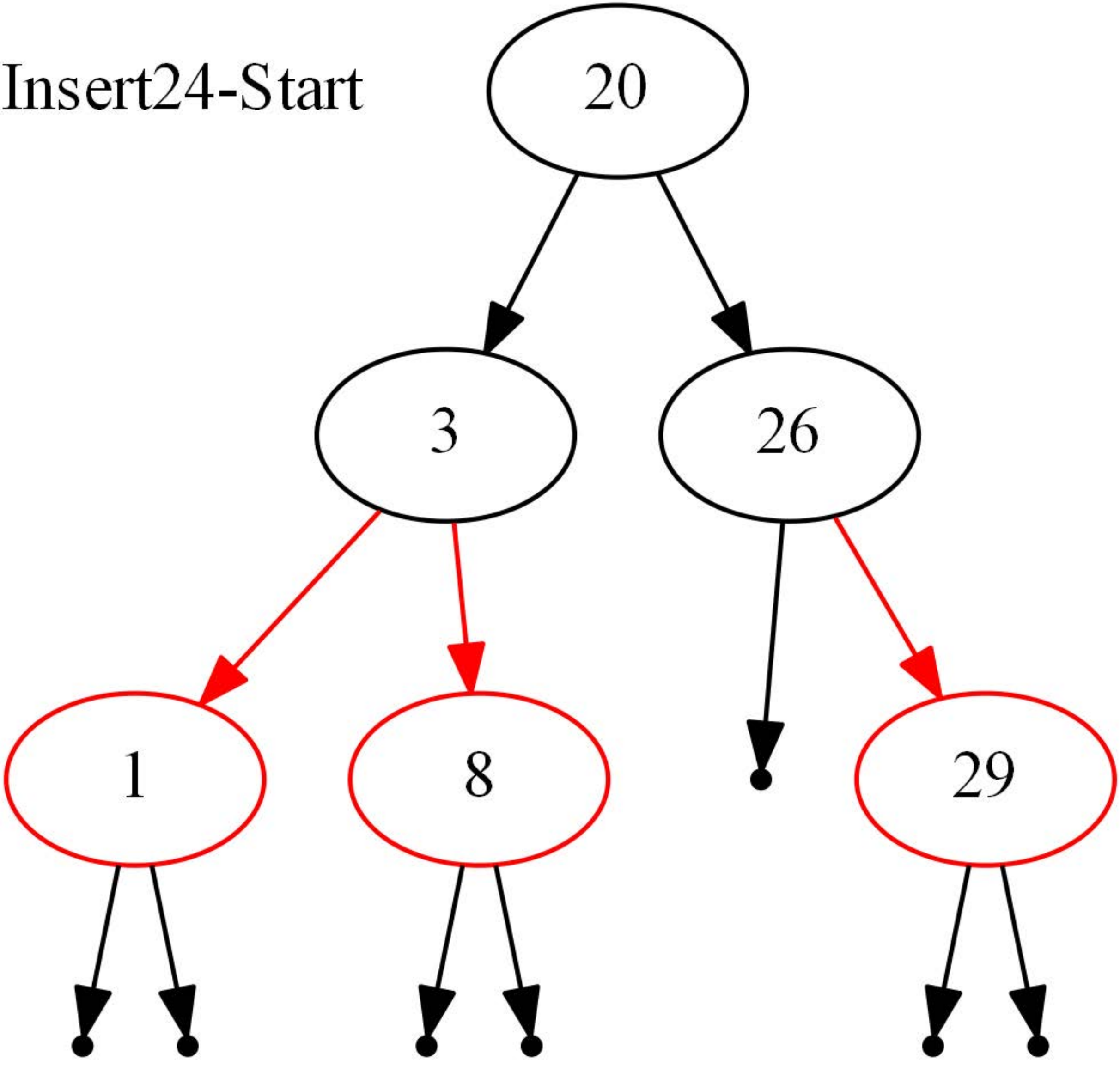
Parent is Black. Terminate buttom-up pass.



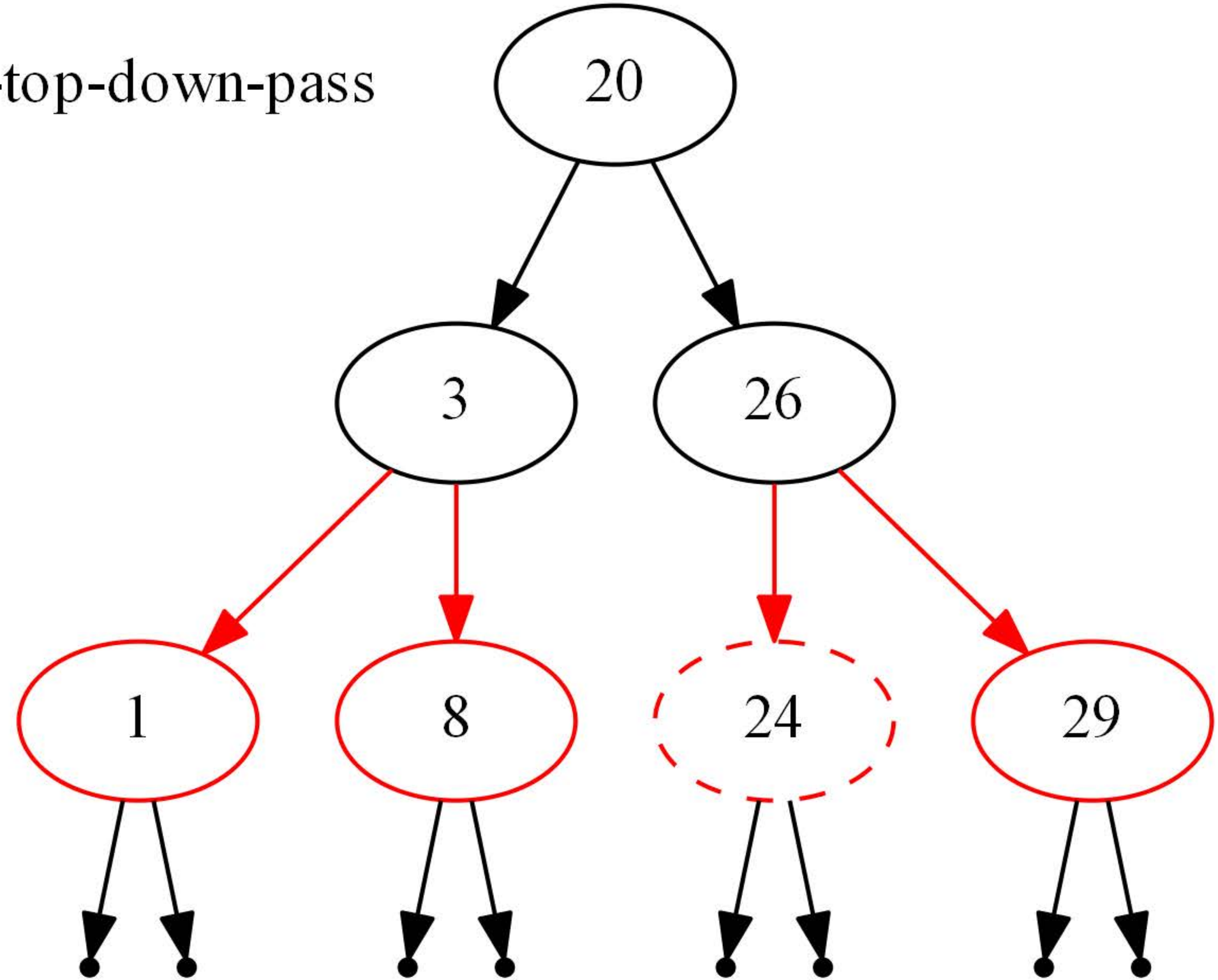
Insert29-After-Bottom-up-pass



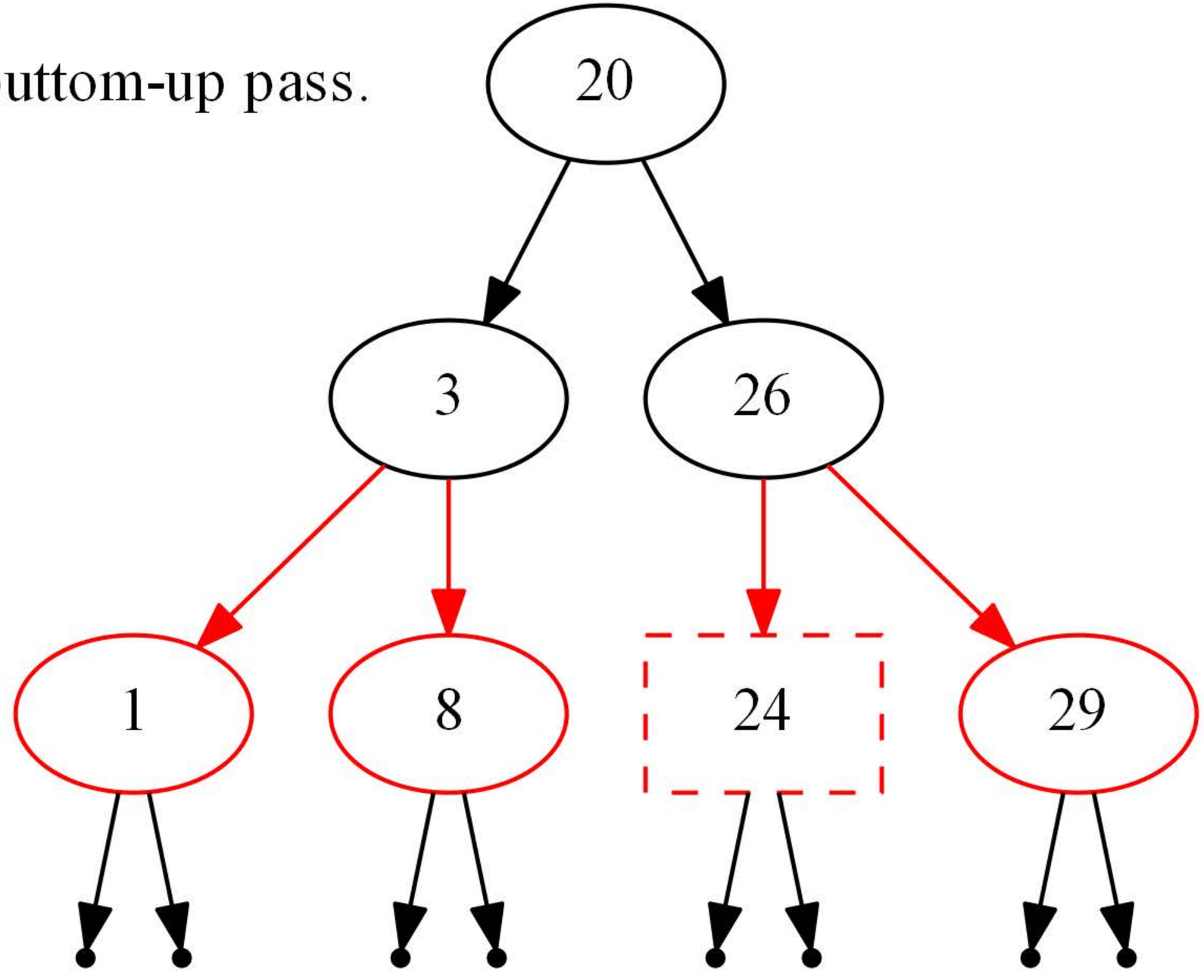
Insert24-Start



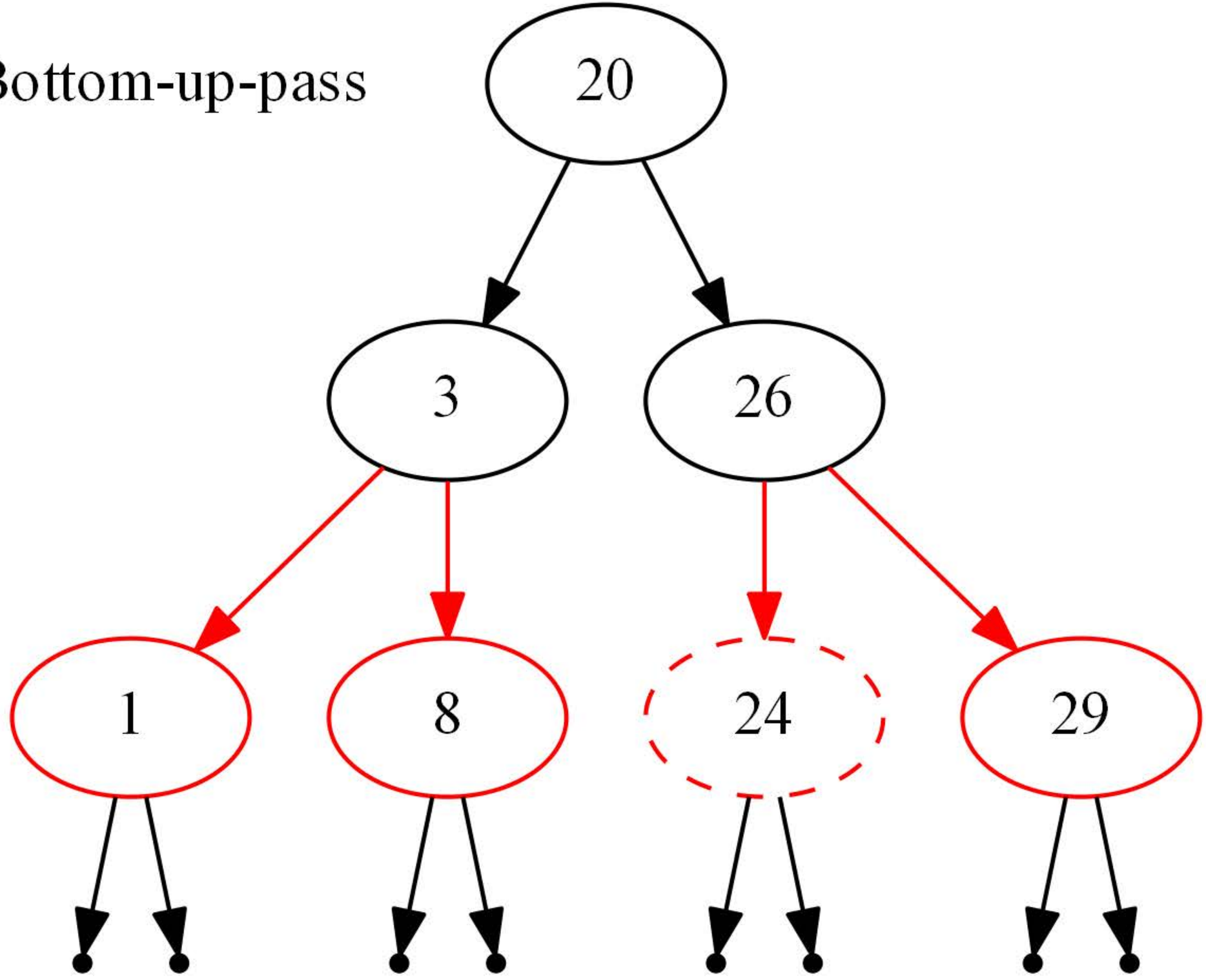
Insert24-After-top-down-pass



Parent is Black. Terminate buttom-up pass.



Insert24-After-Bottom-up-pass



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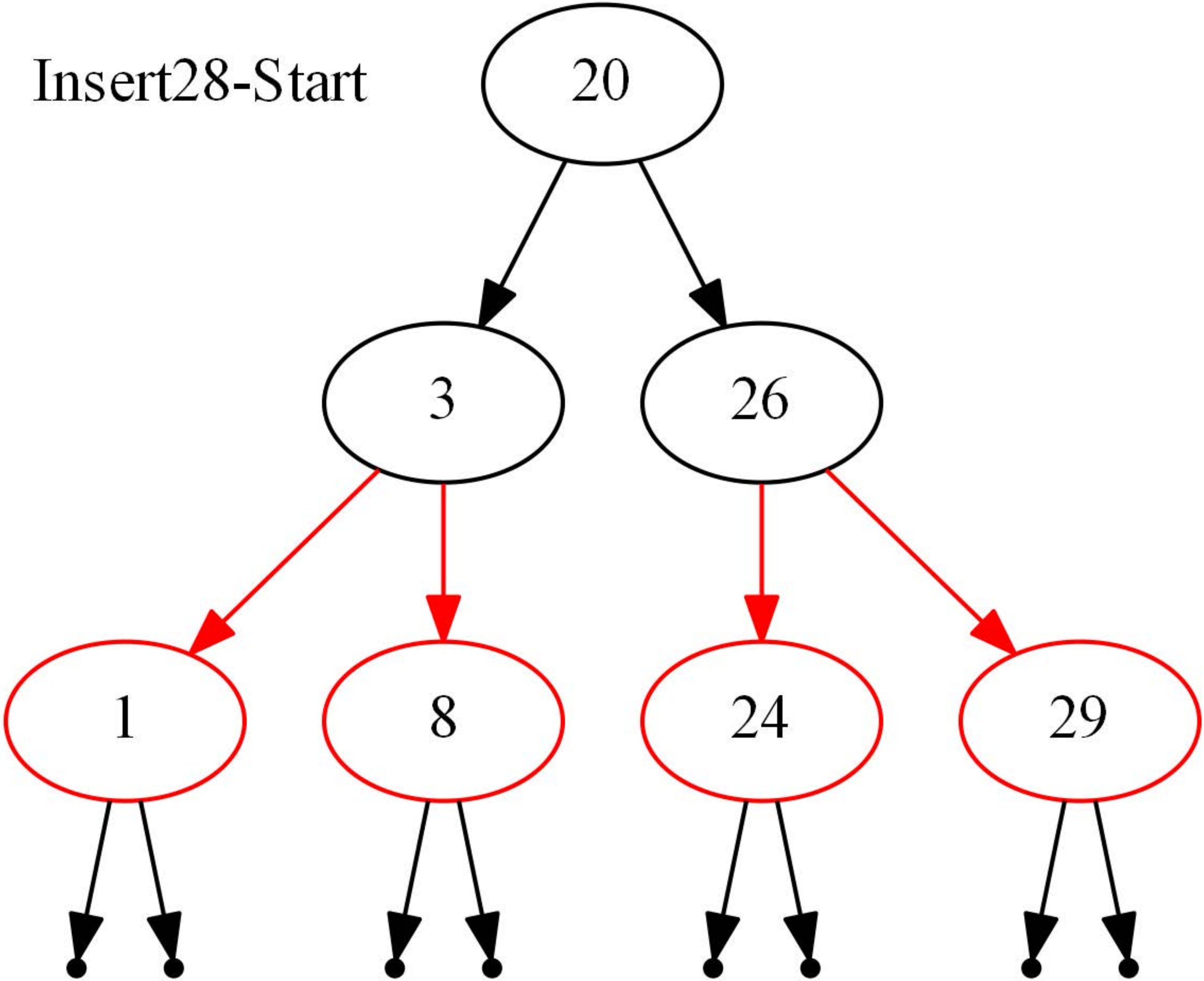
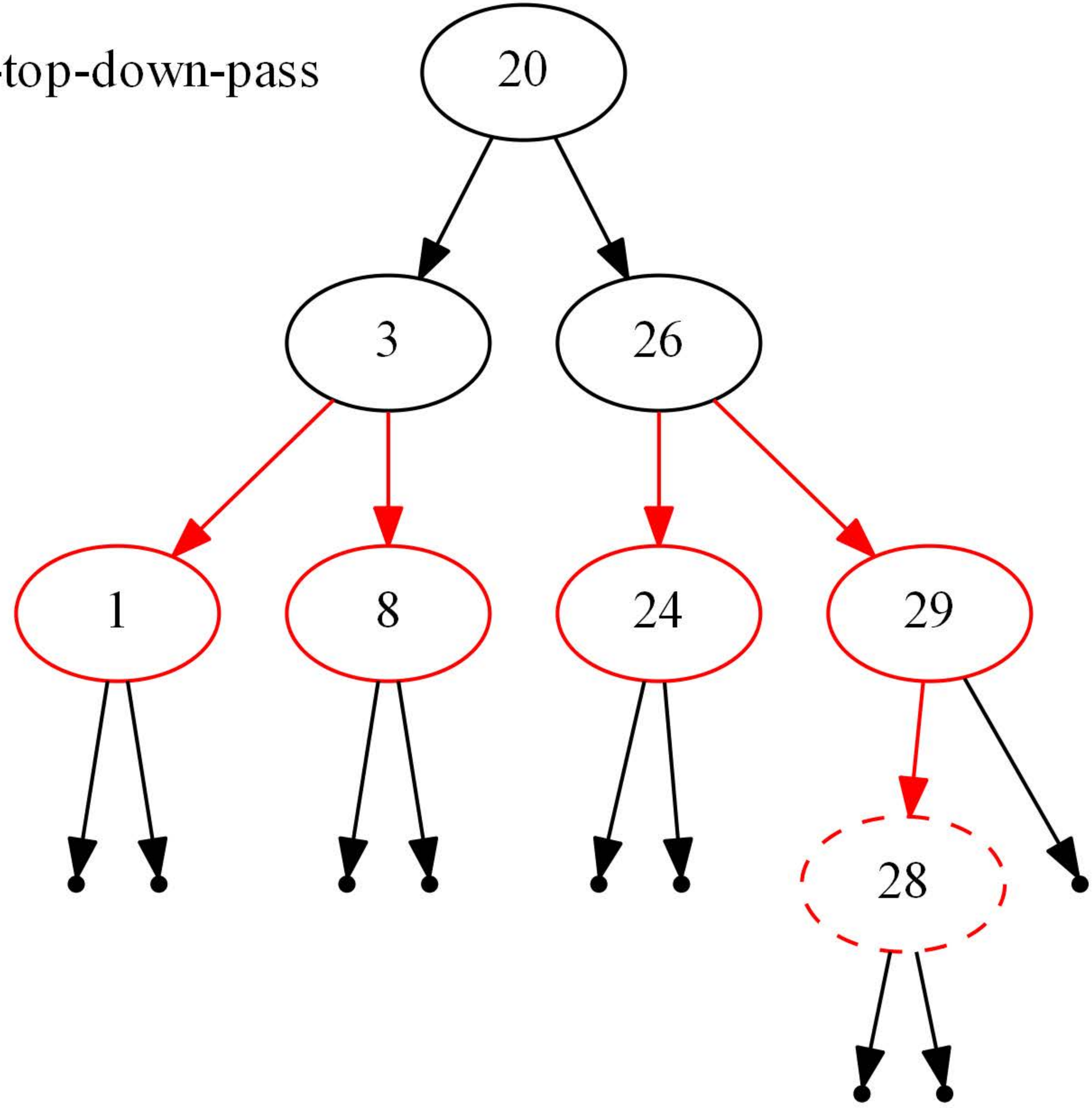
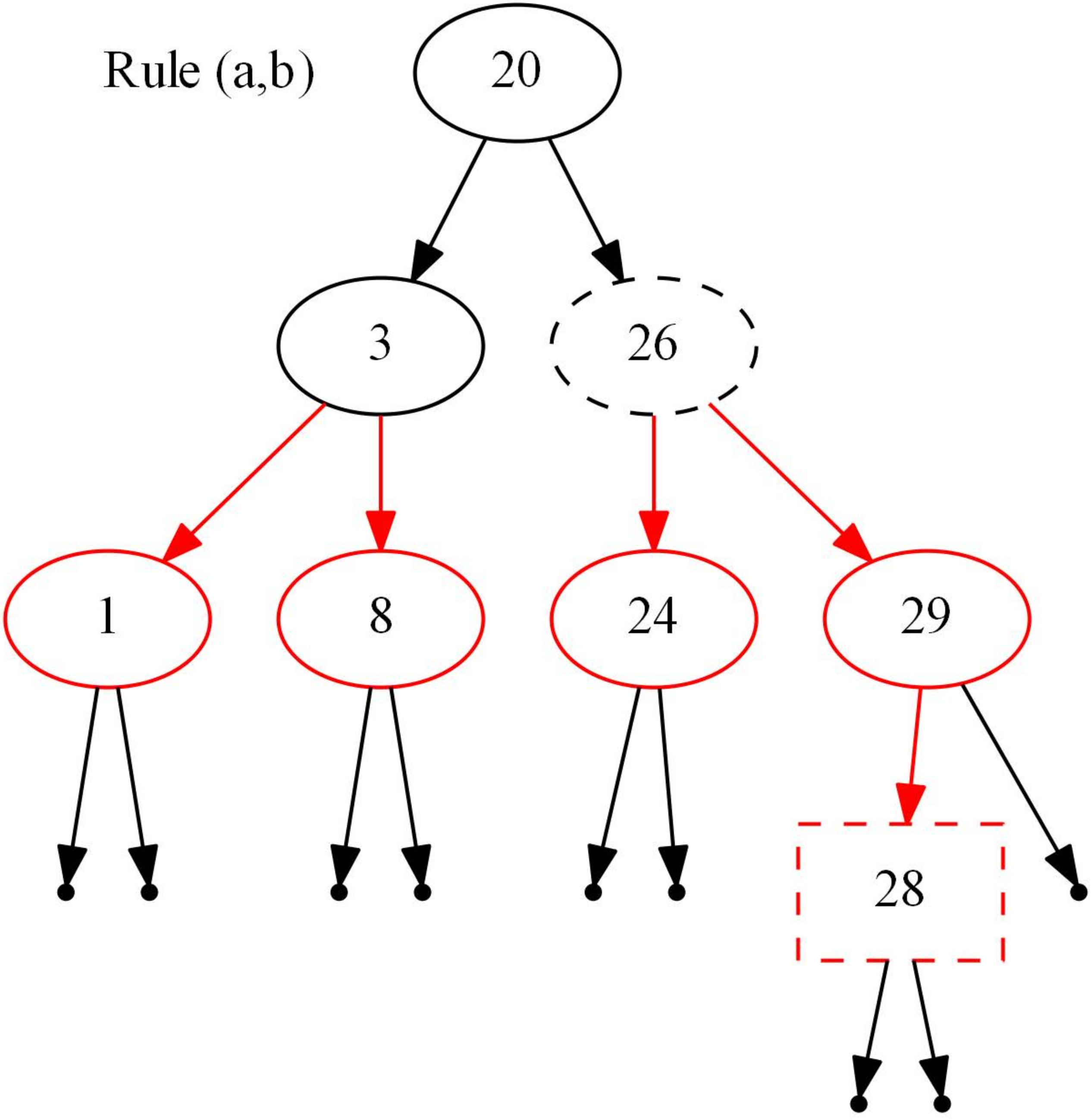


Insert28-After-top-down-pass




Rule (a,b)
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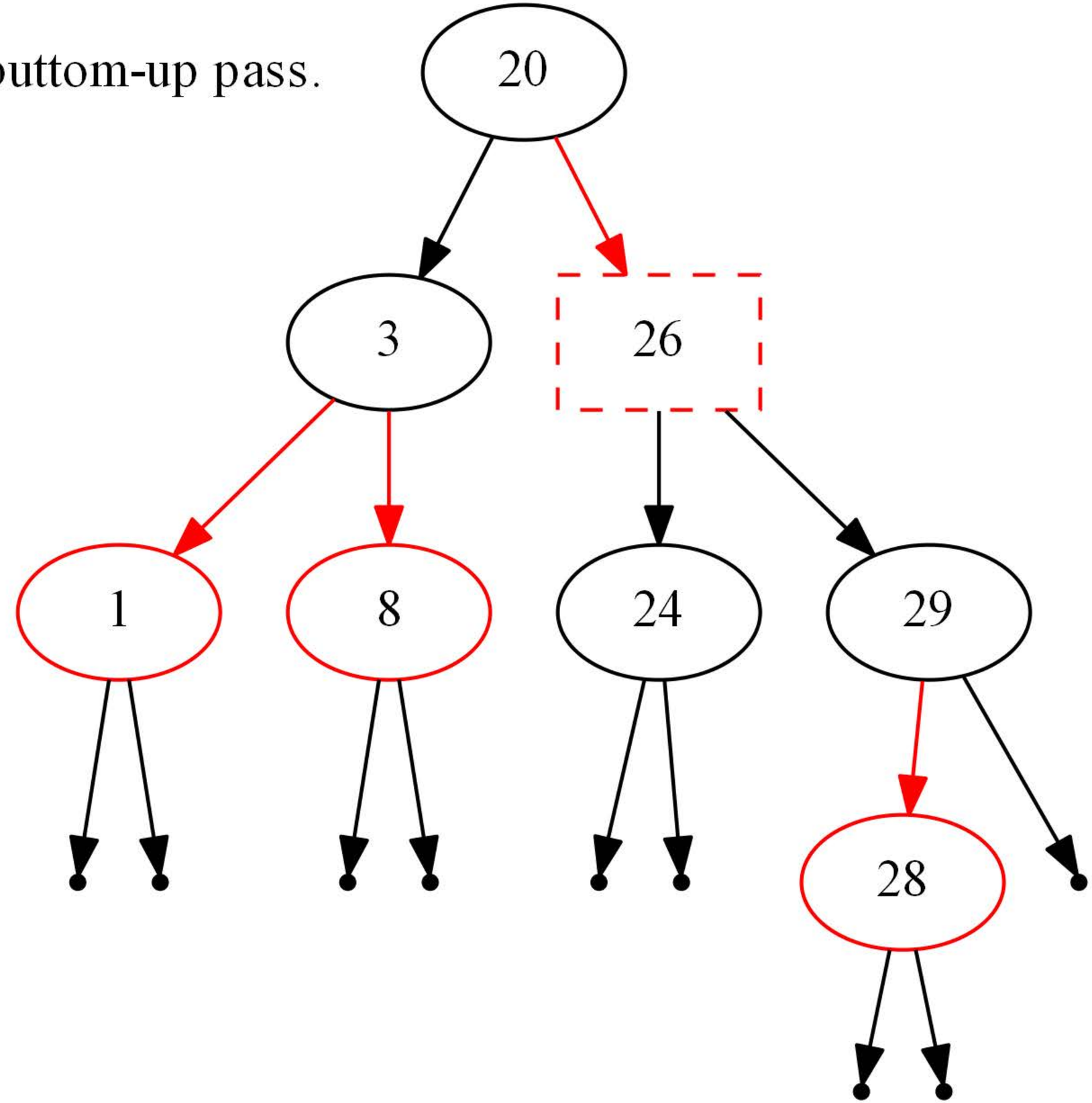
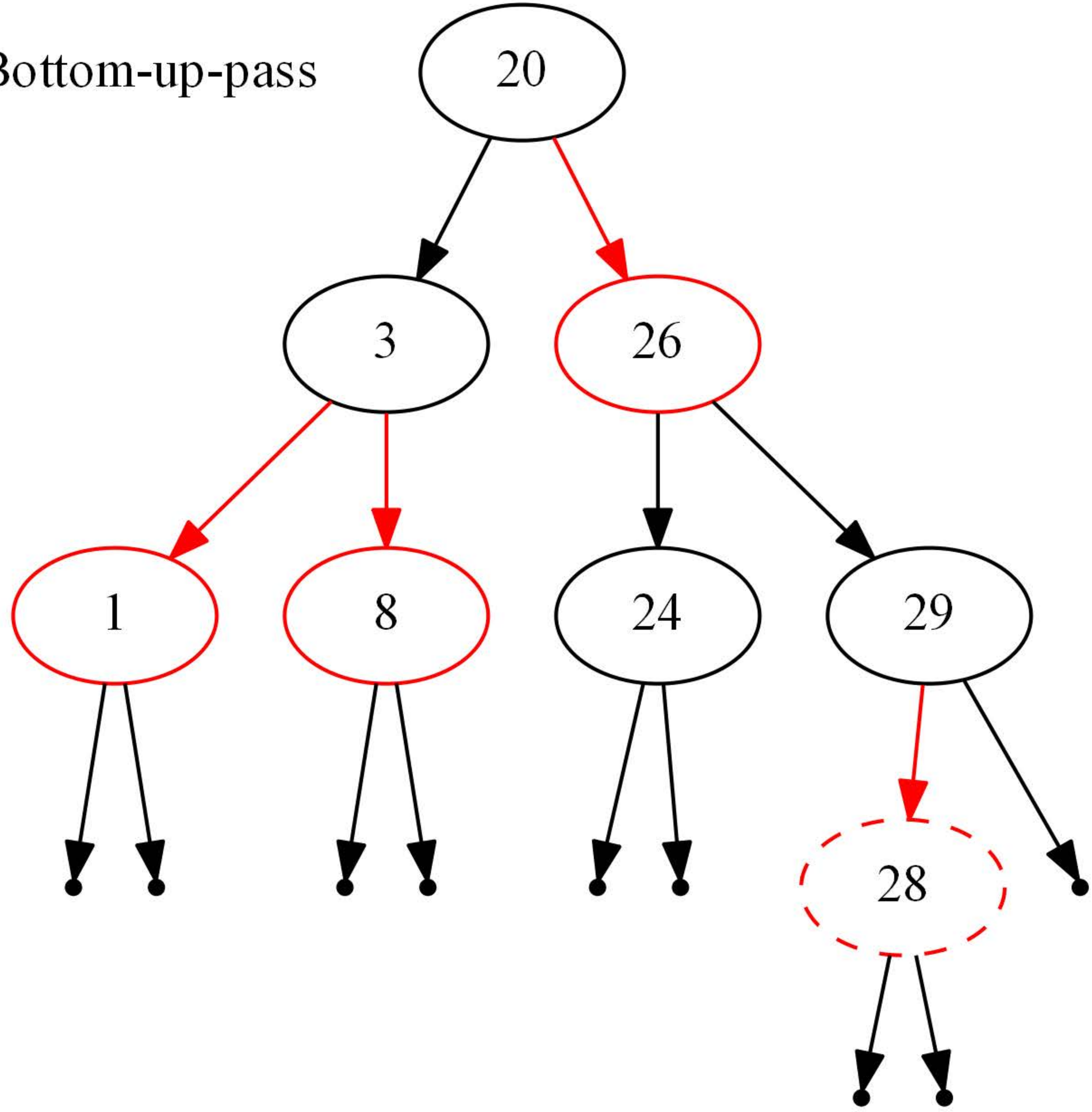
Parent is Black. Terminate buttom-up pass.



Insert28-After-Bottom-up-pass



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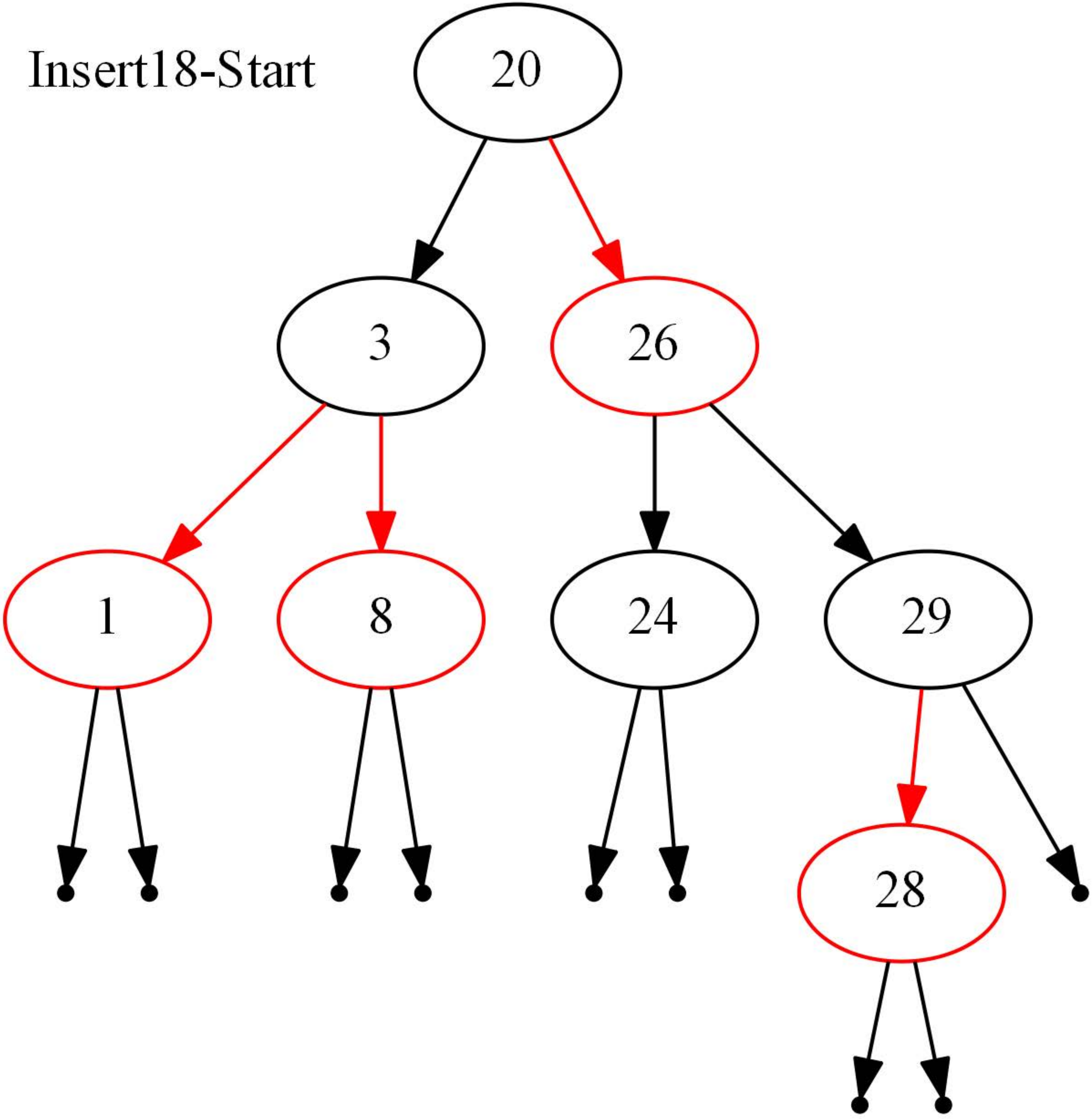
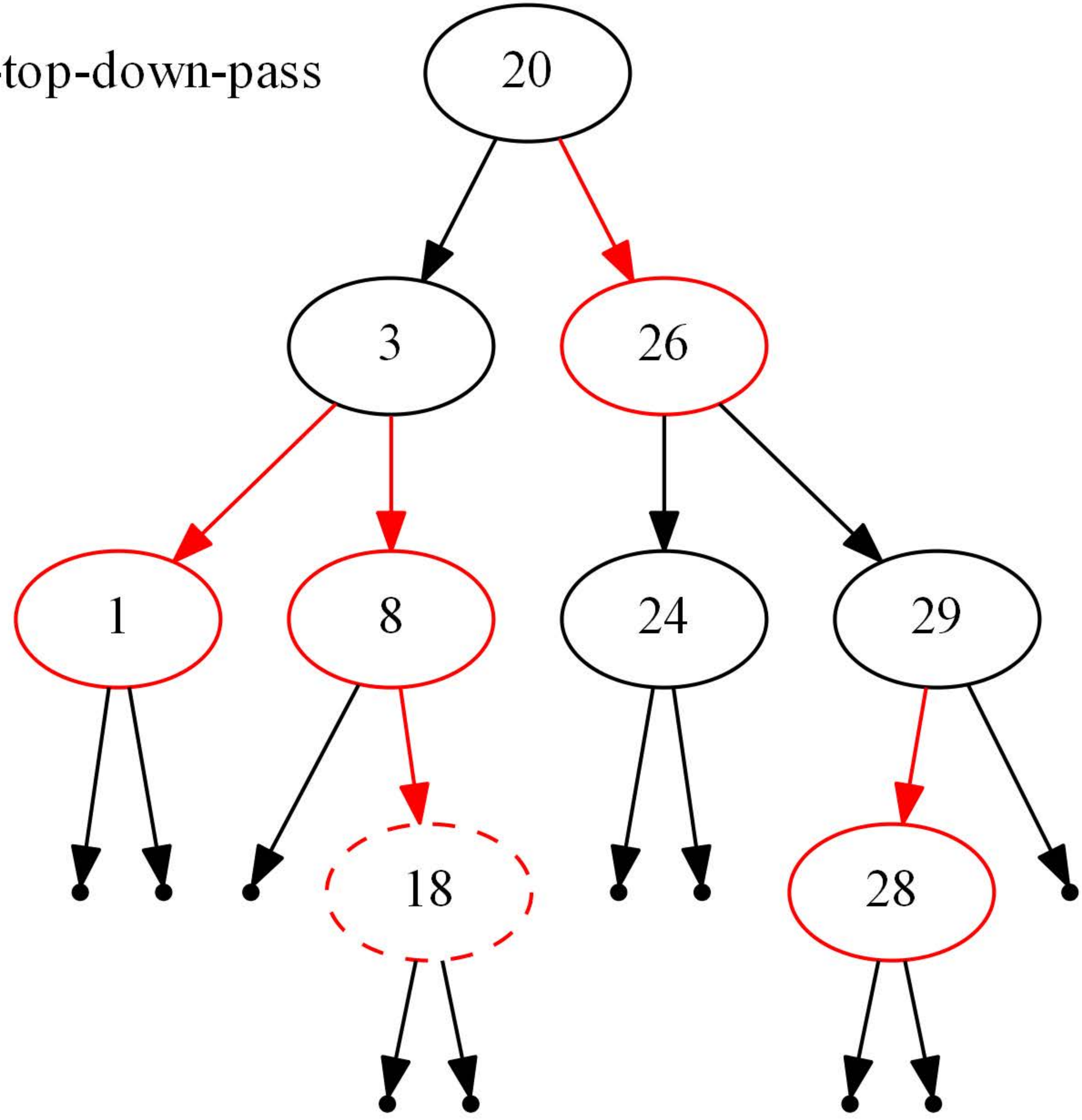
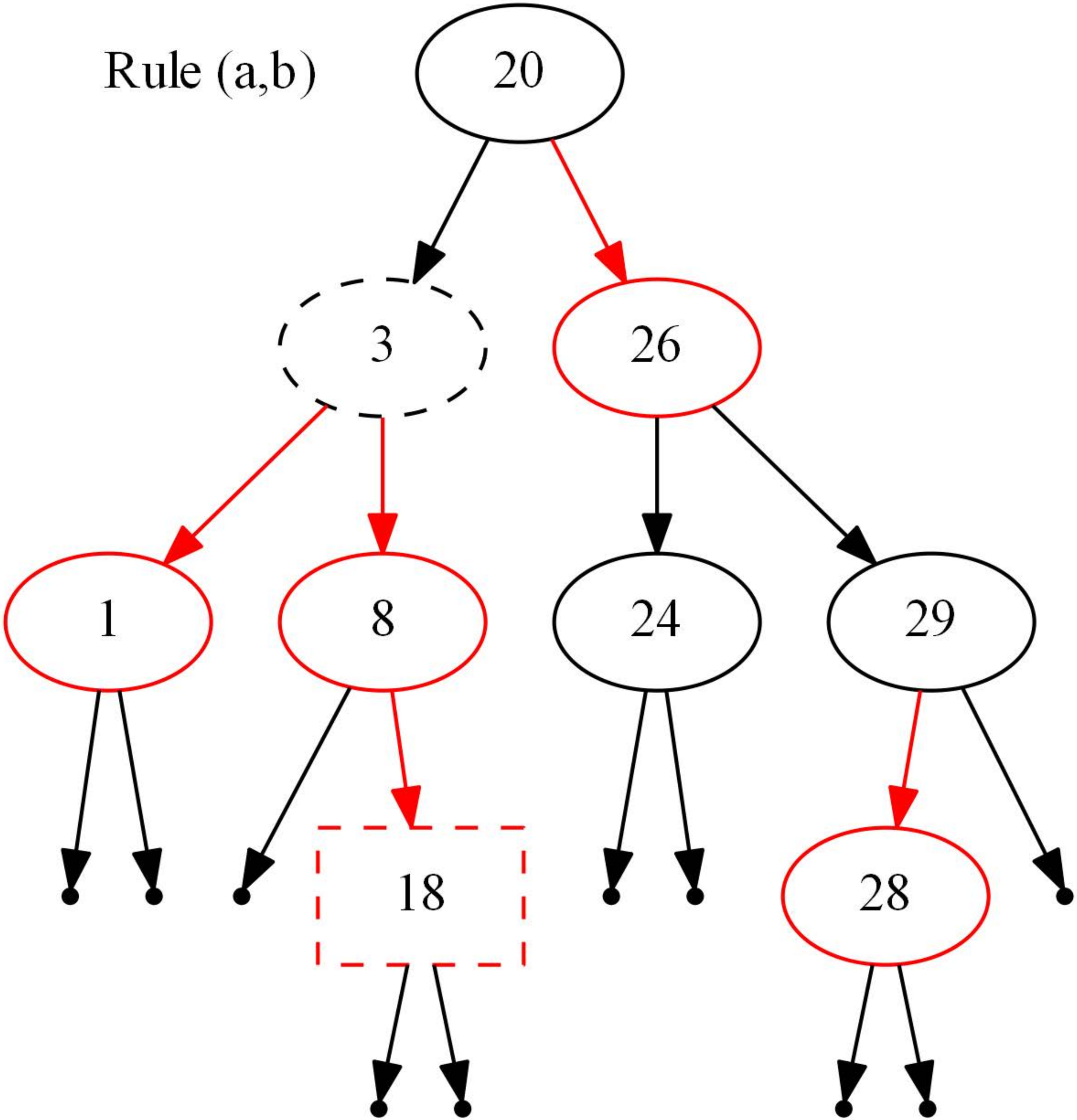


Insert18-After-top-down-pass




Rule (a,b)
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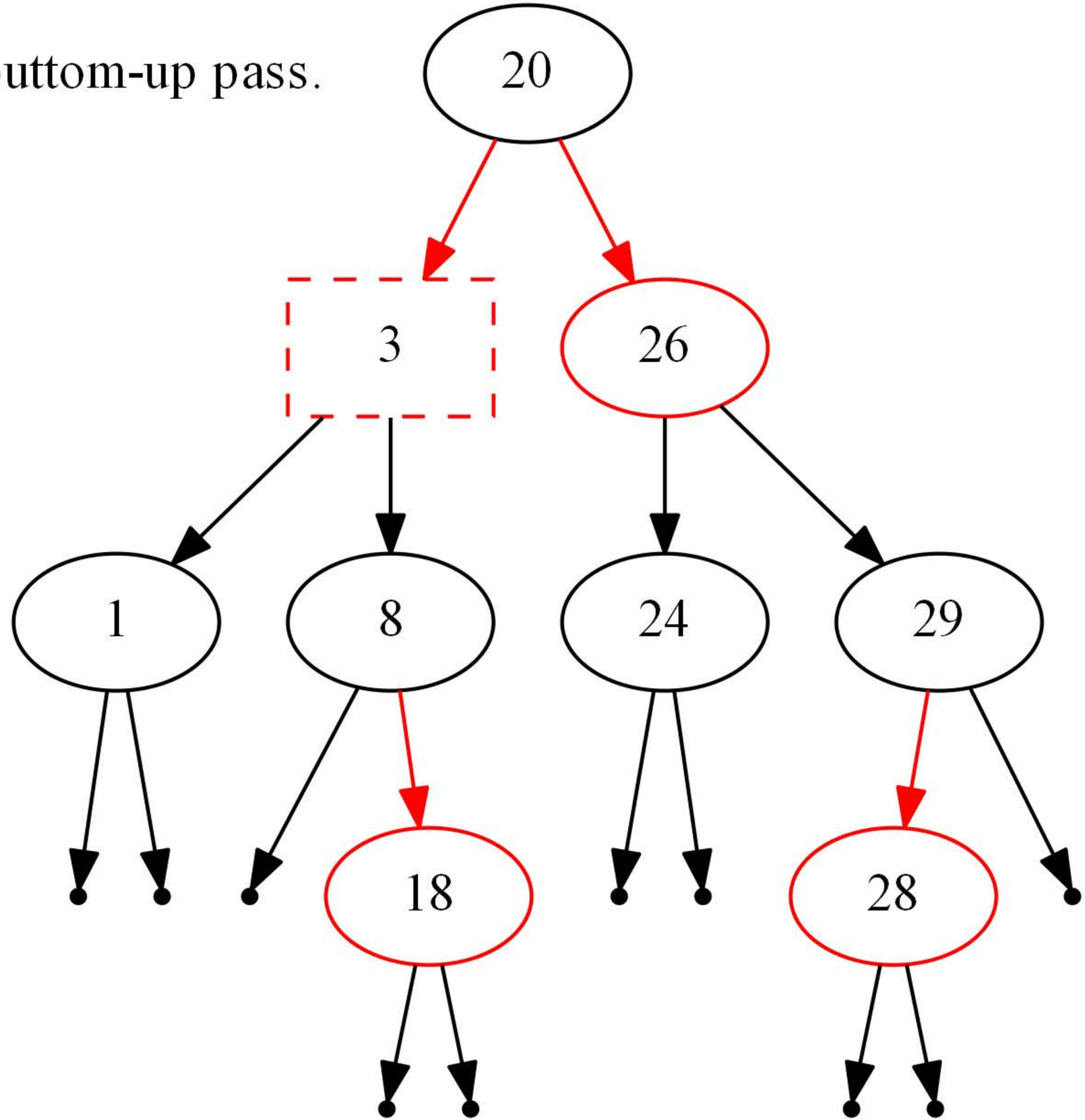
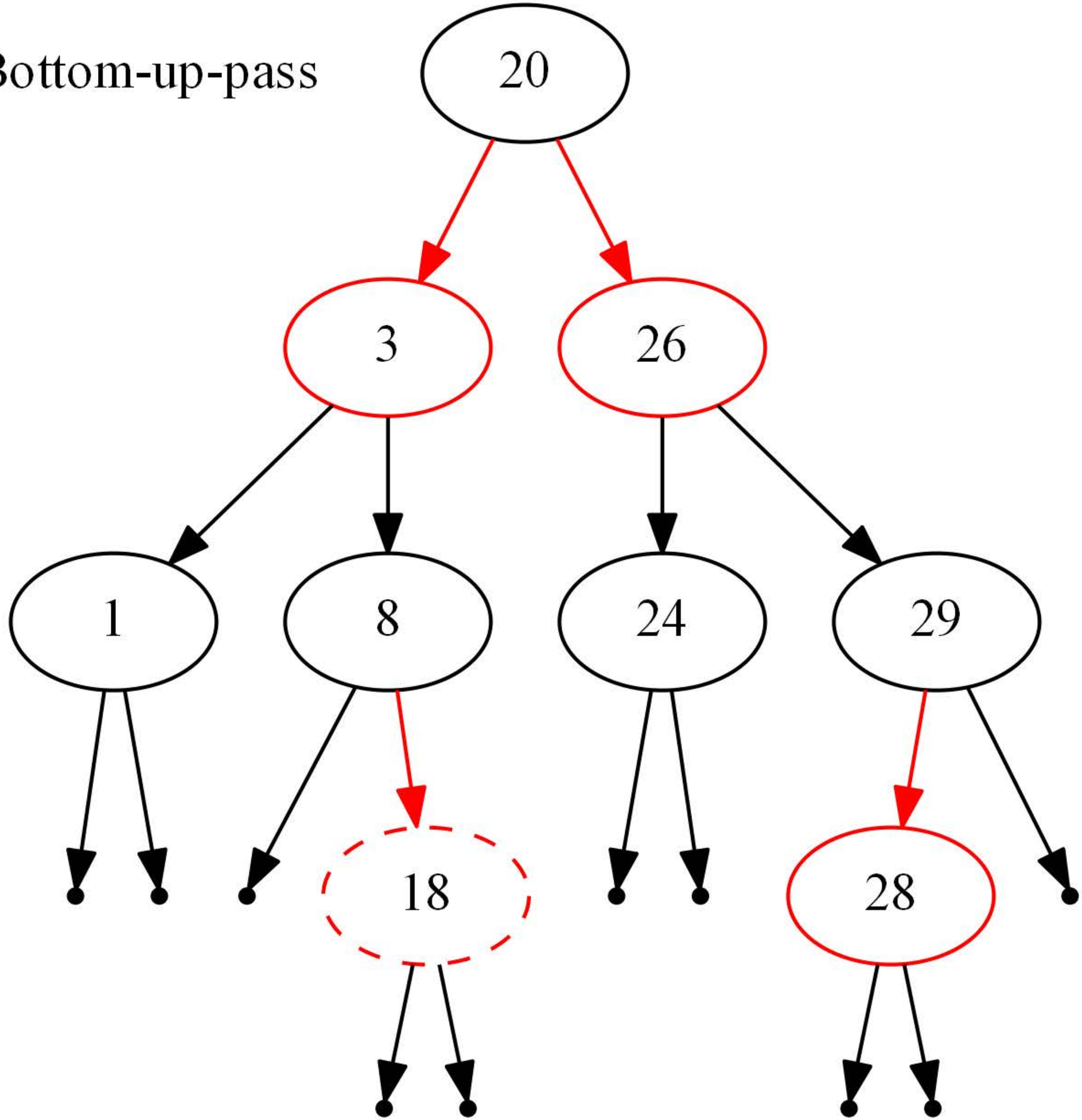
Parent is Black. Terminate buttom-up pass.



Insert18-After-Bottom-up-pass



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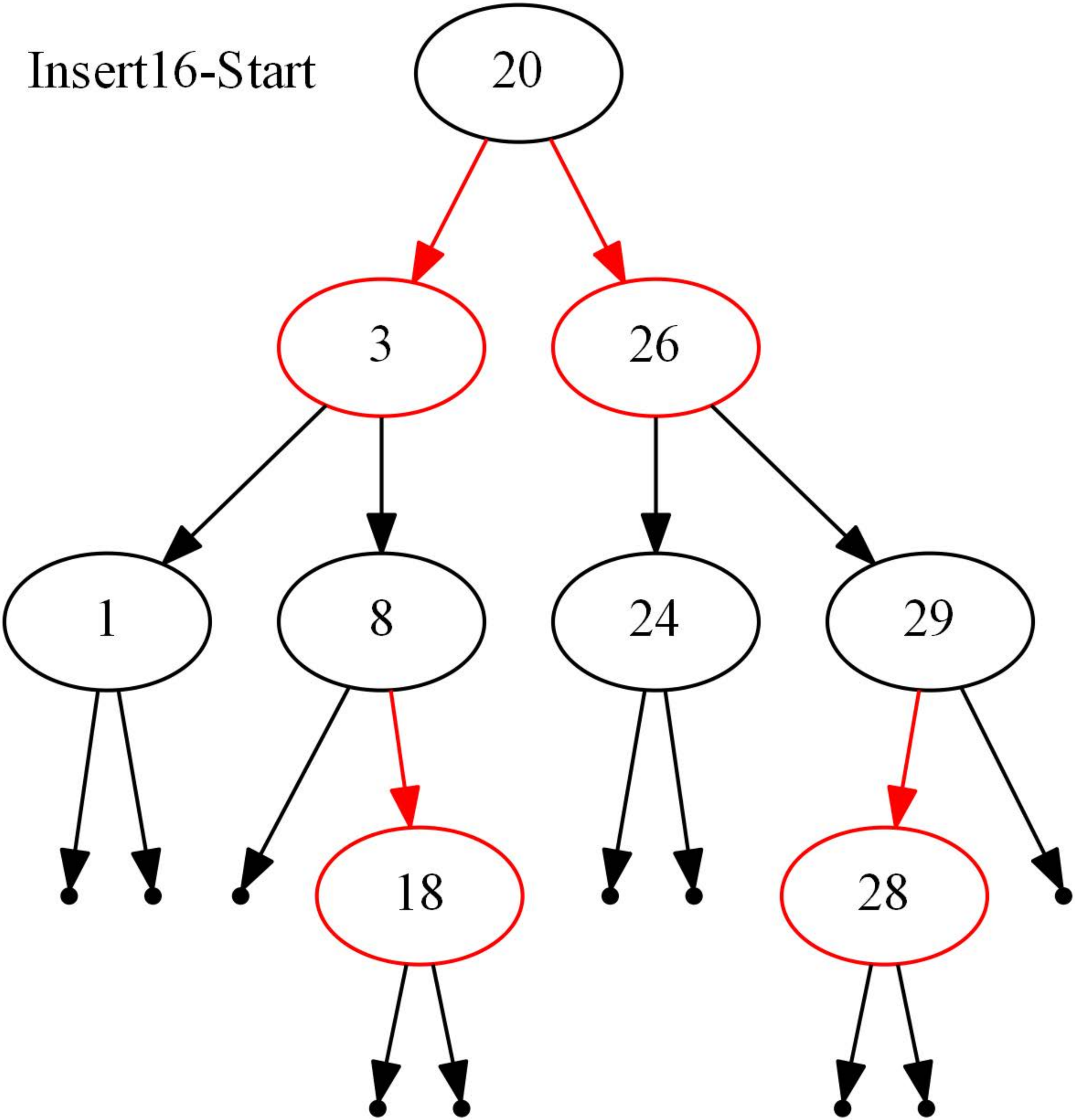
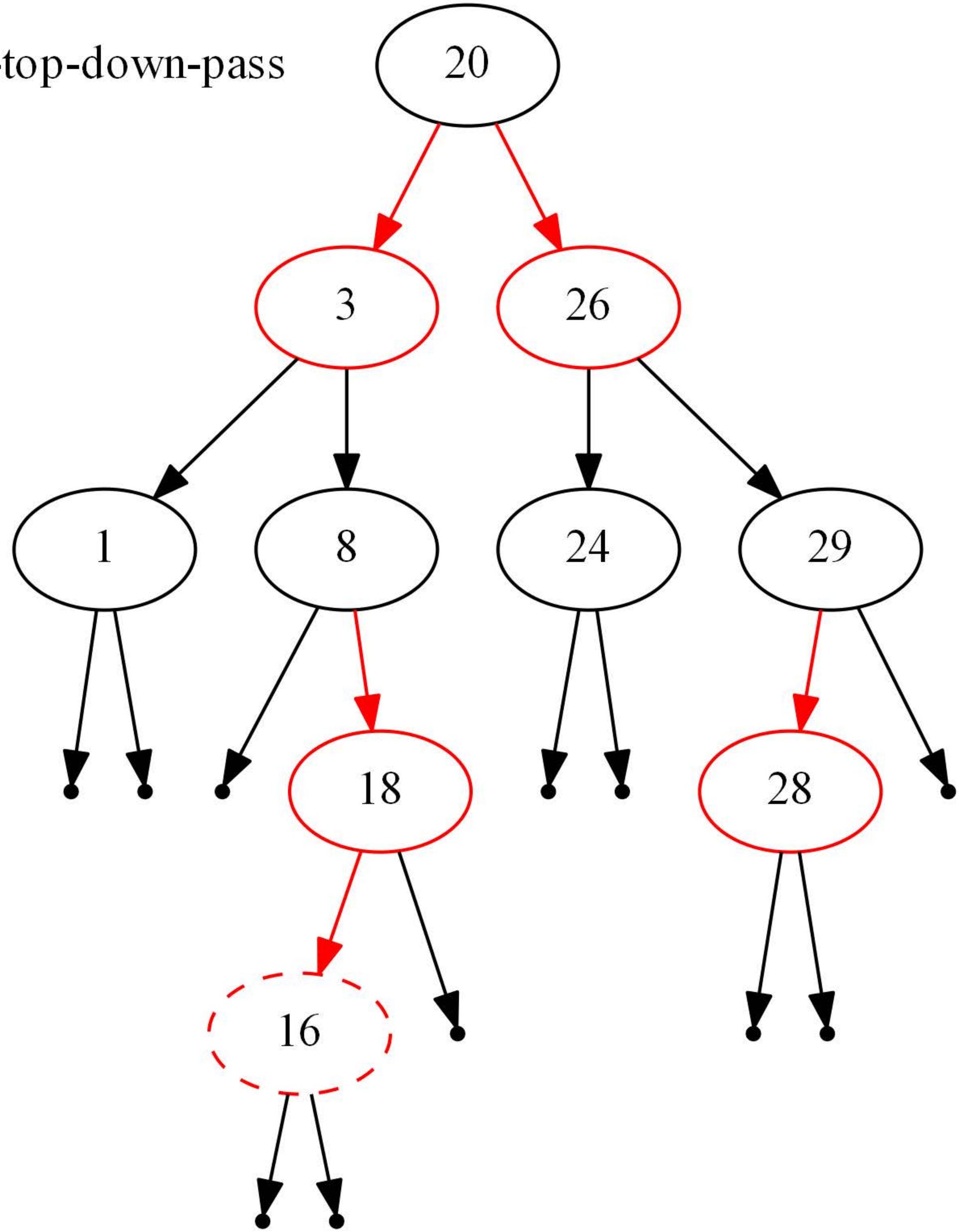
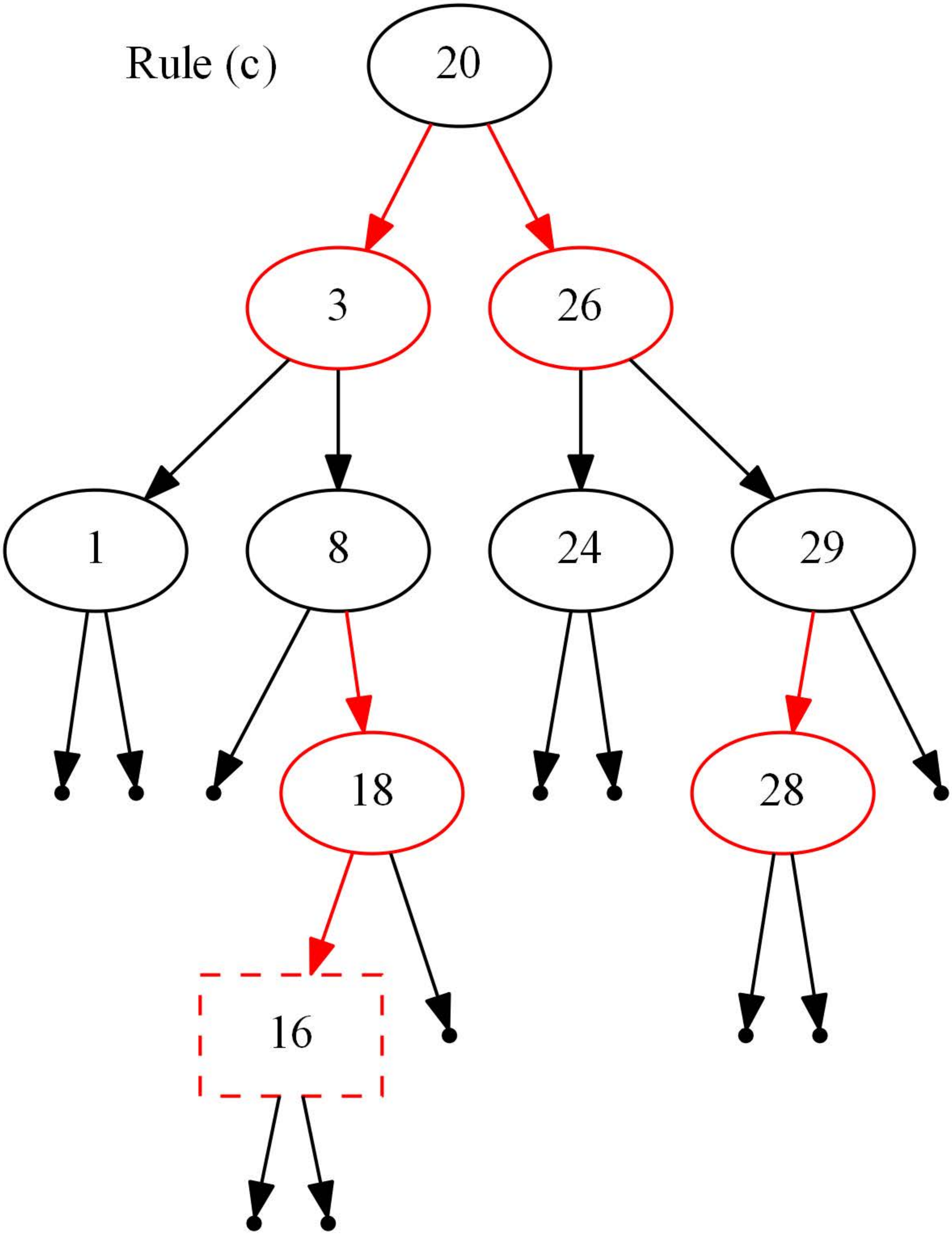


Insert16-After-top-down-pass




Rule (c)
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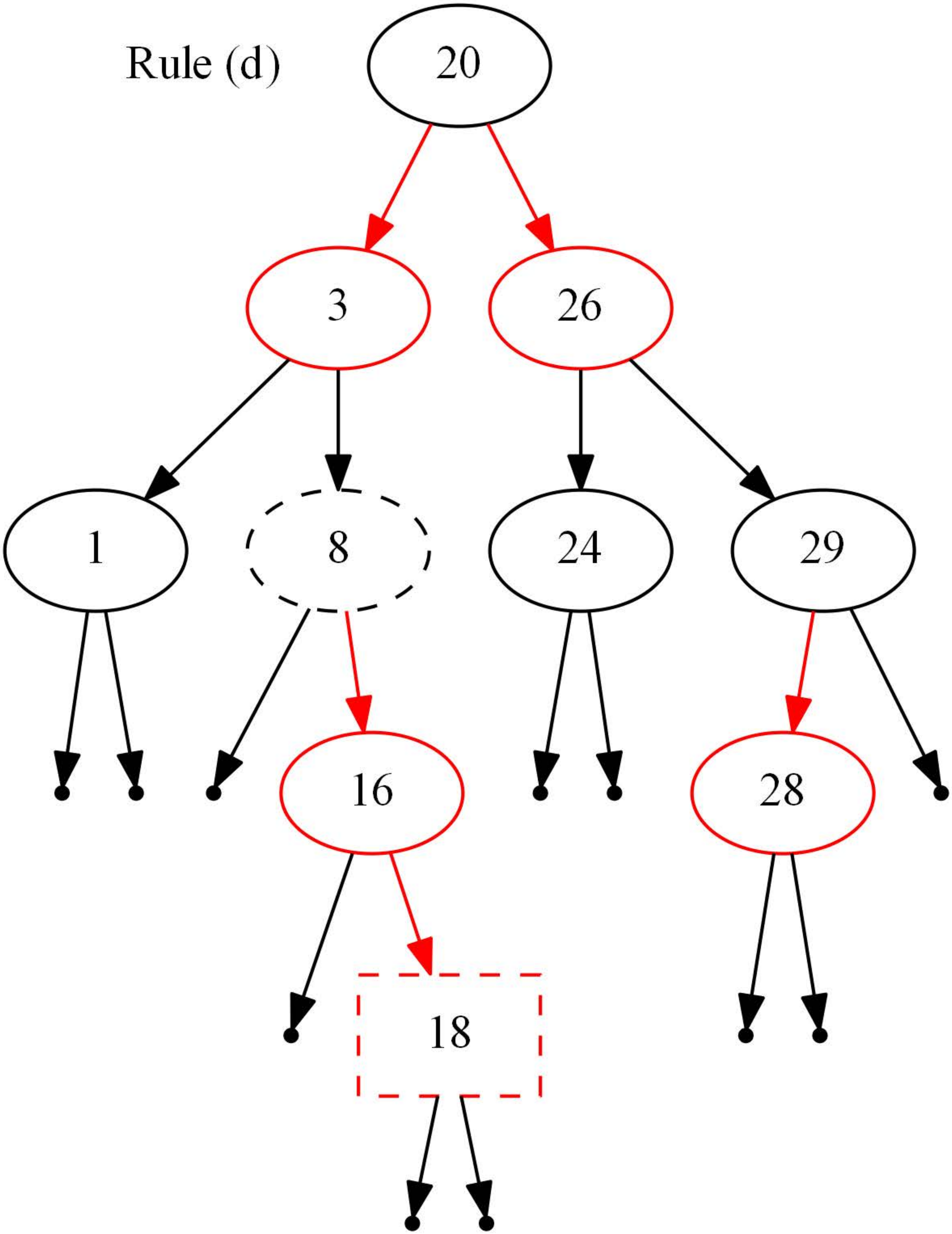
Rule (d)
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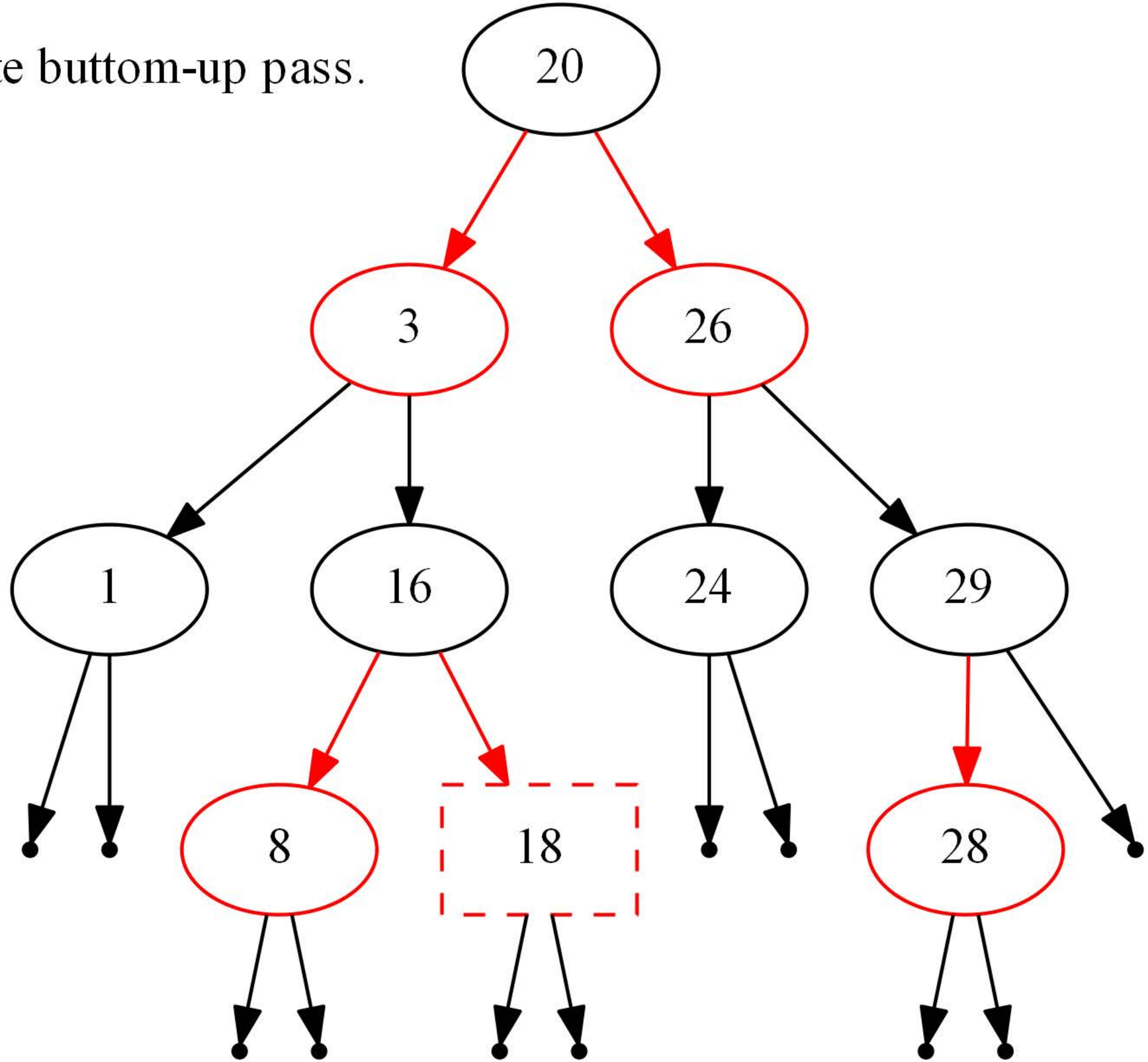
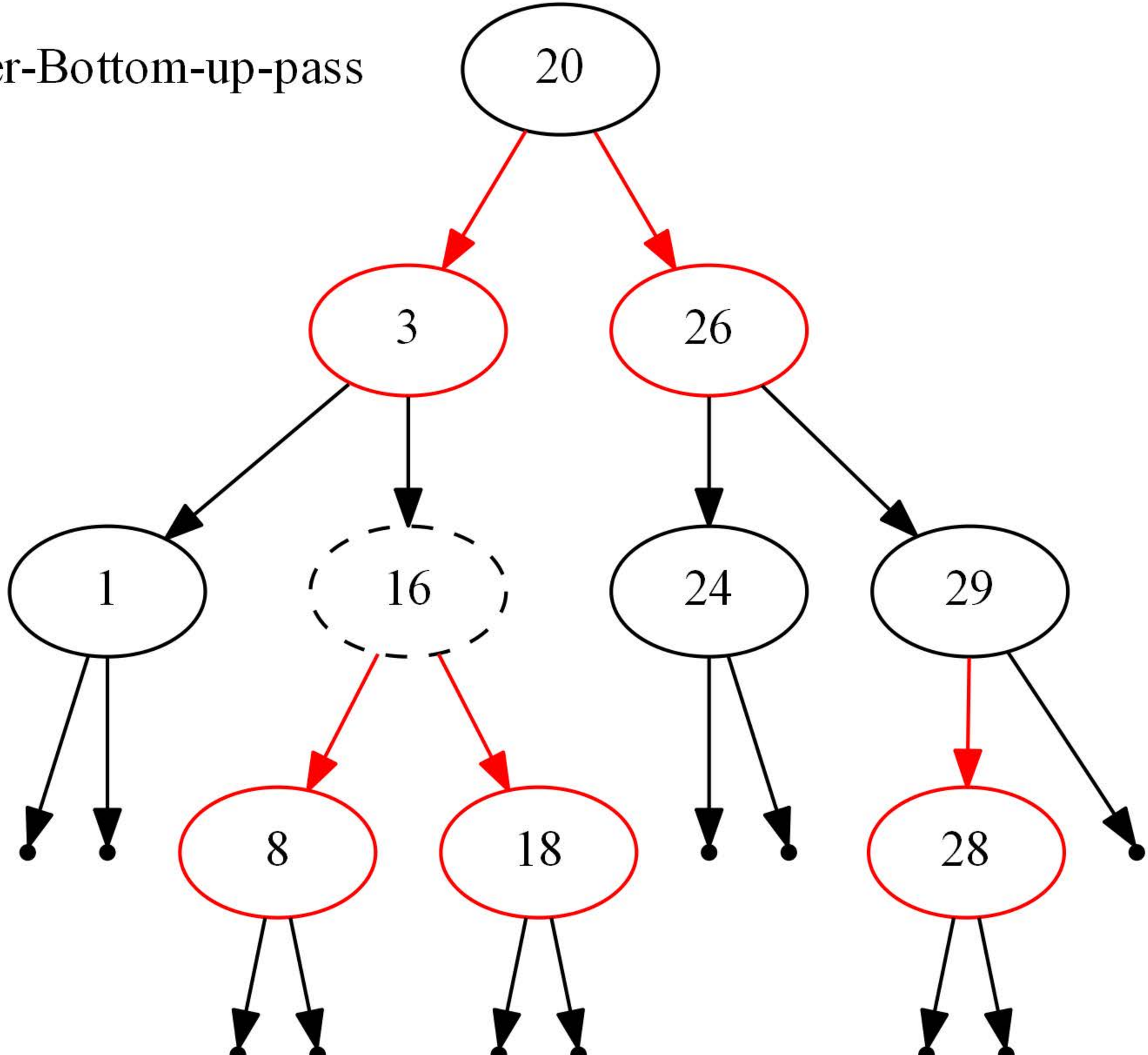
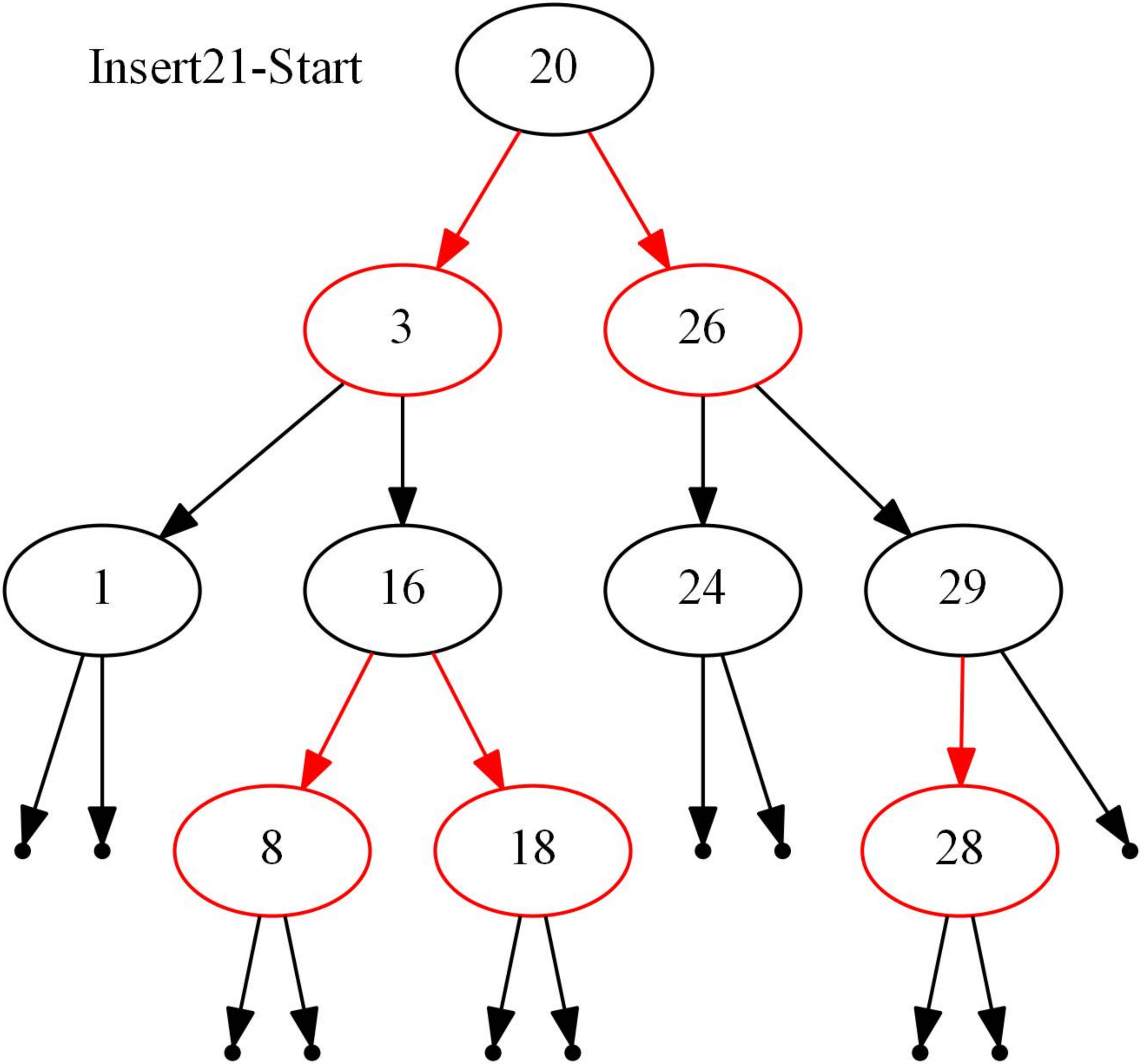
Parent is Black. Terminate buttom-up pass.



Insert16-After-Bottom-up-pass




Insert21-Start
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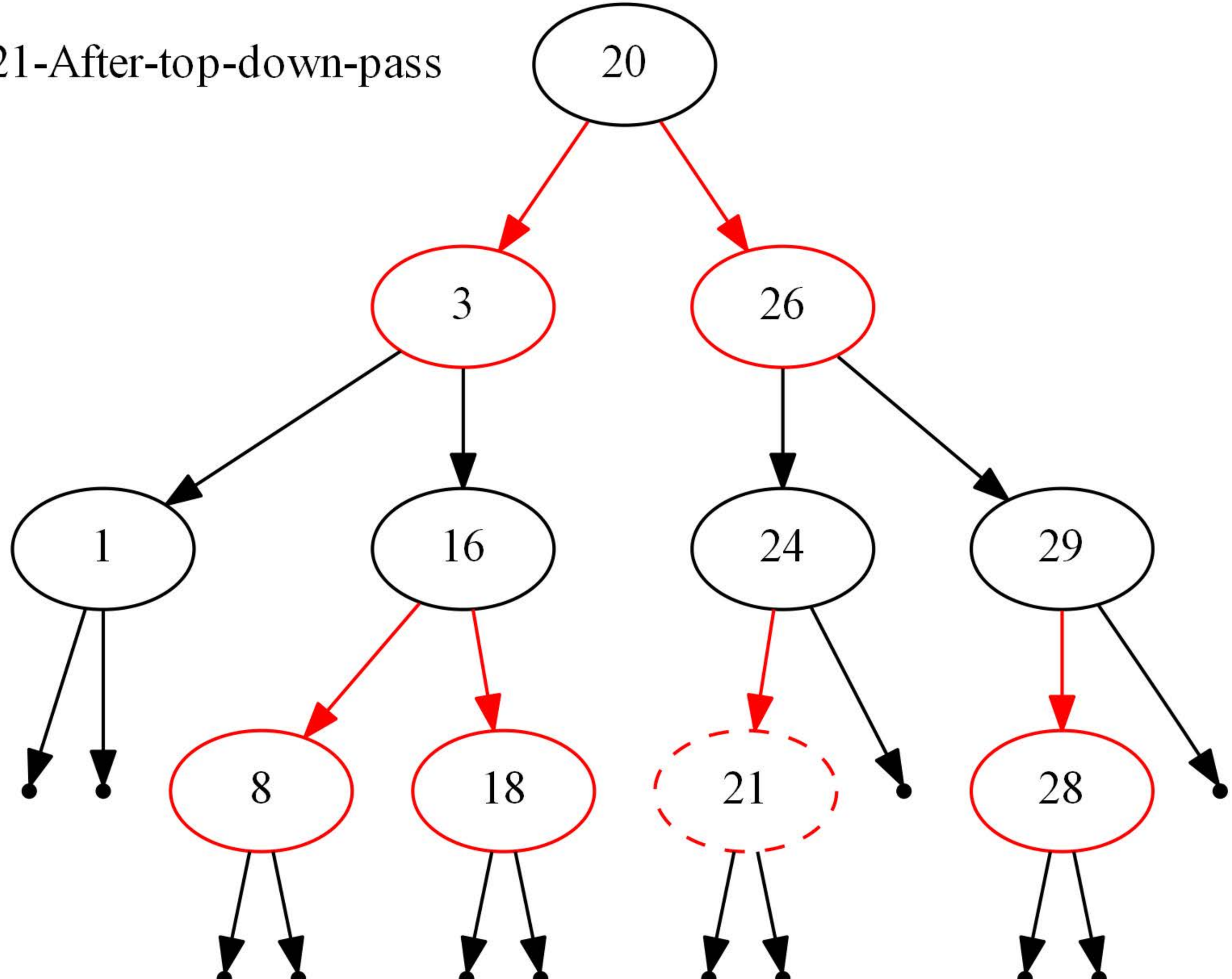
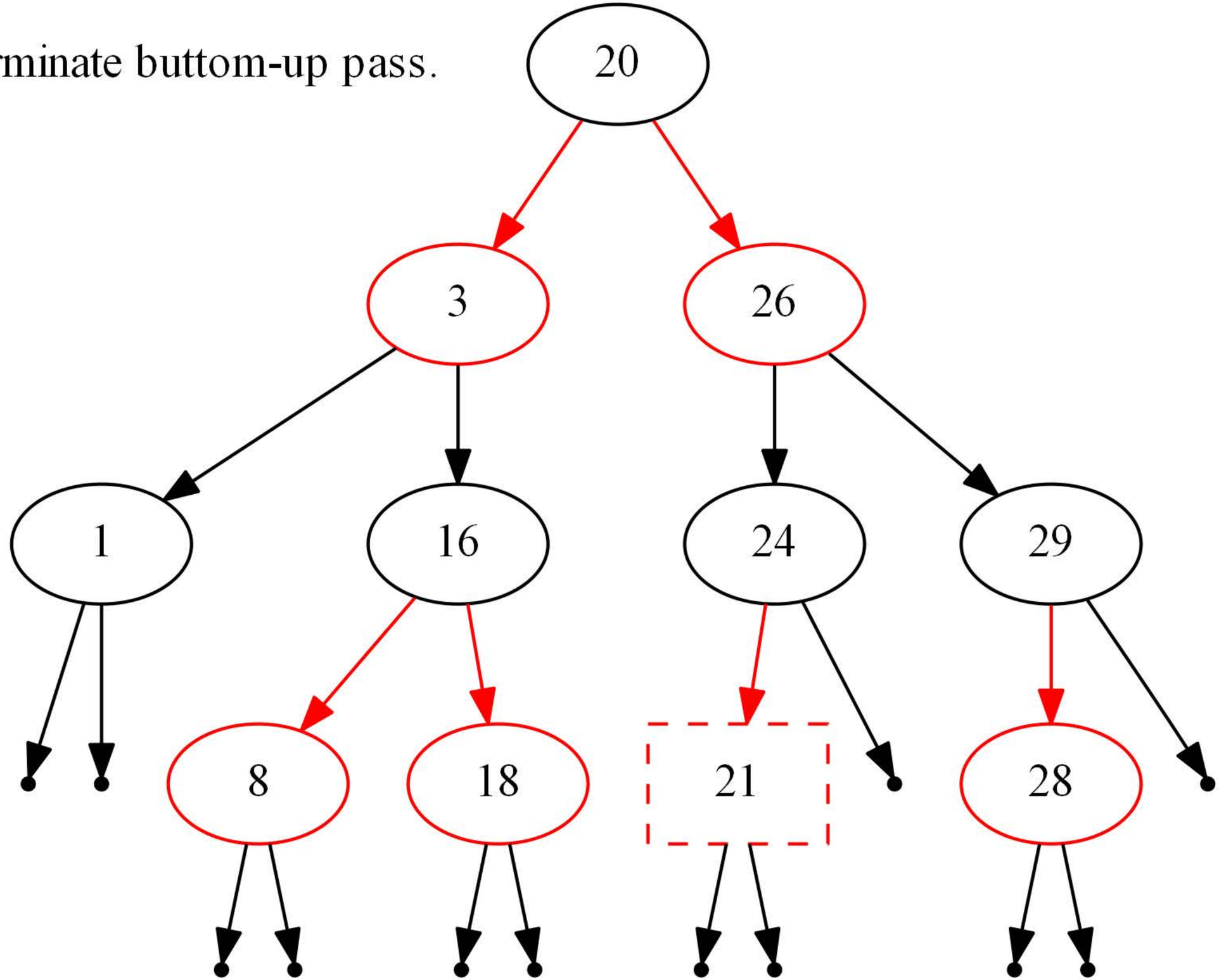
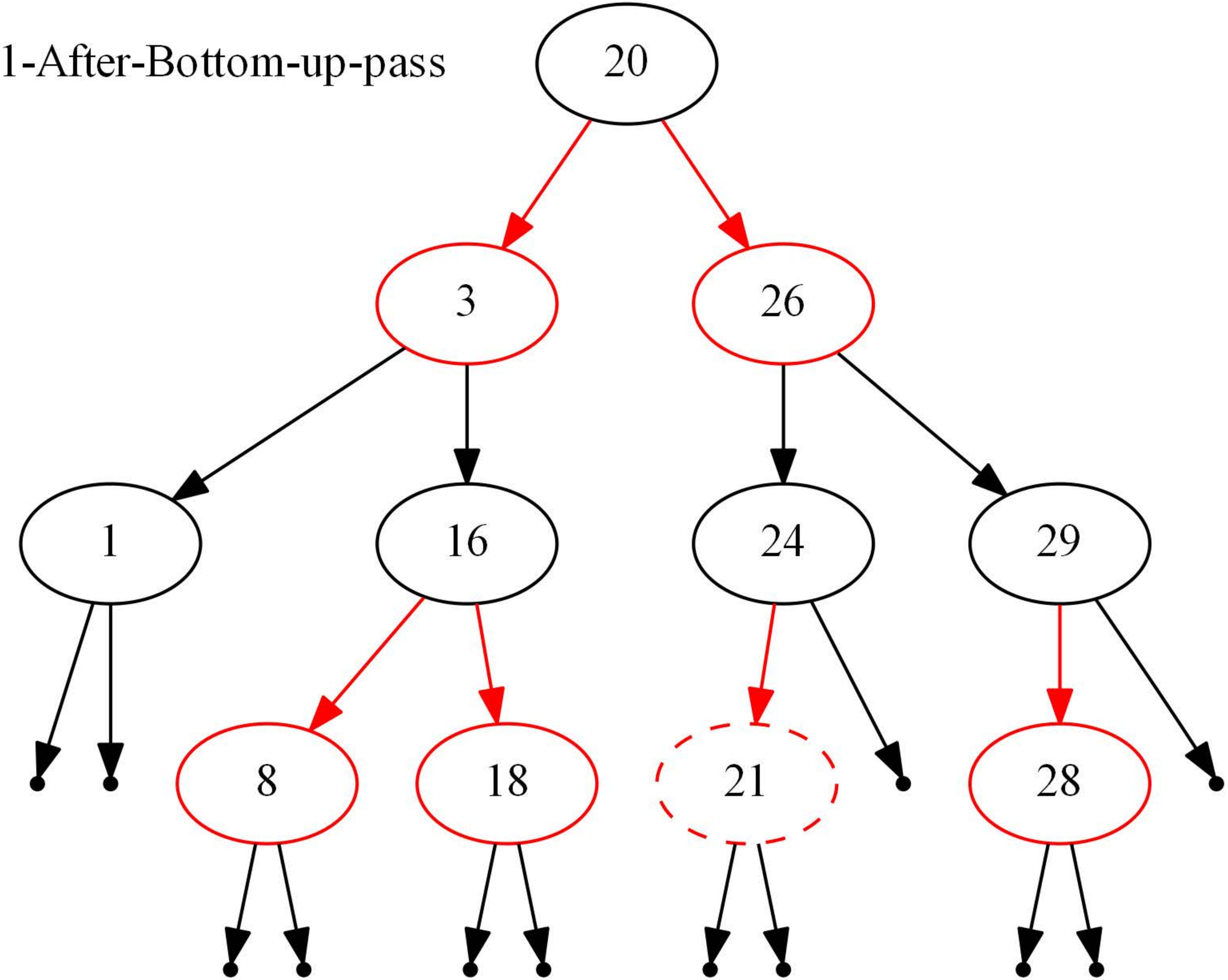
Insert21-After-top-down-pass

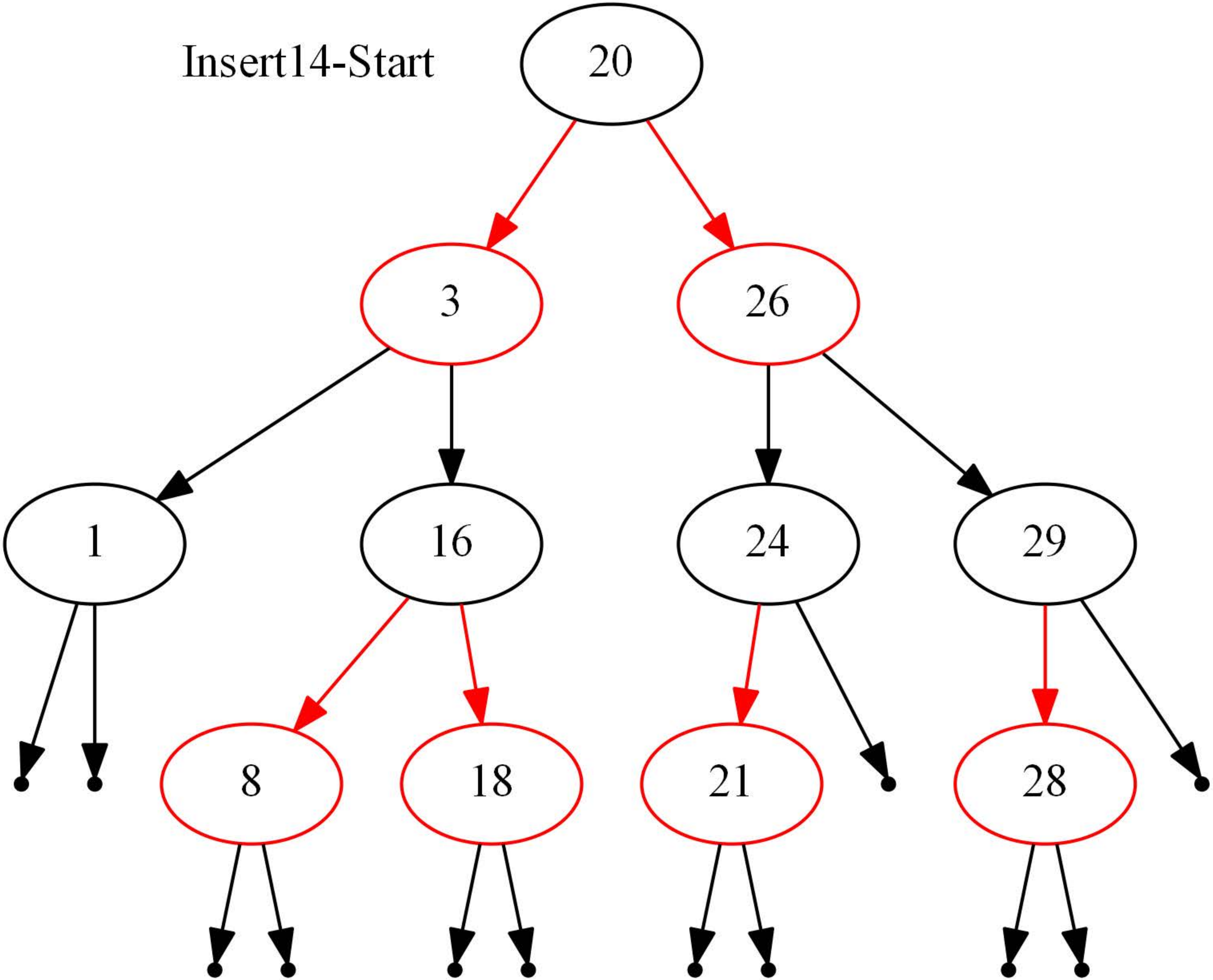


Parent is Black. Terminate buttom-up pass.



Insert21-After-Bottom-up-pass




Insert14-Start
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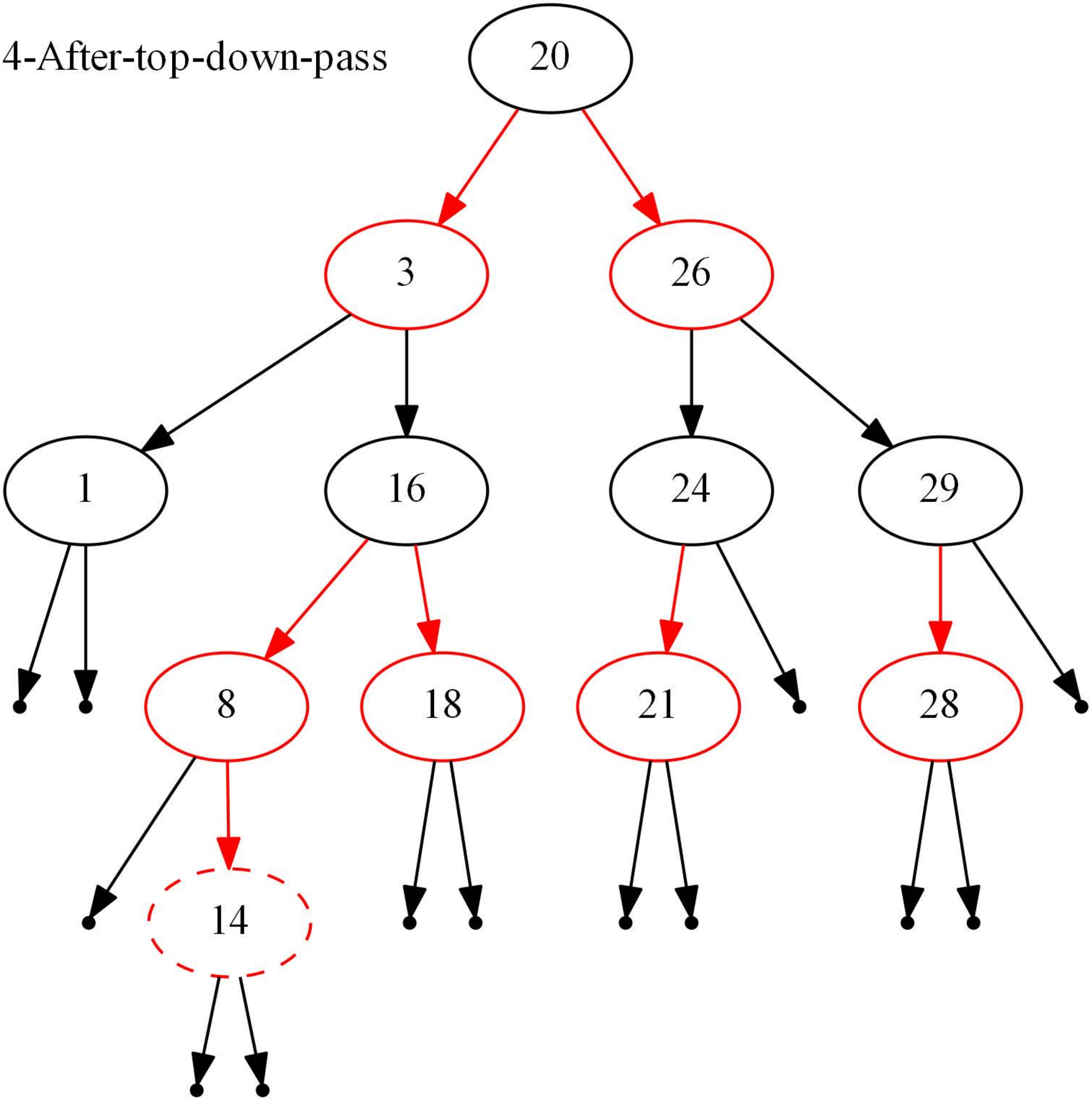
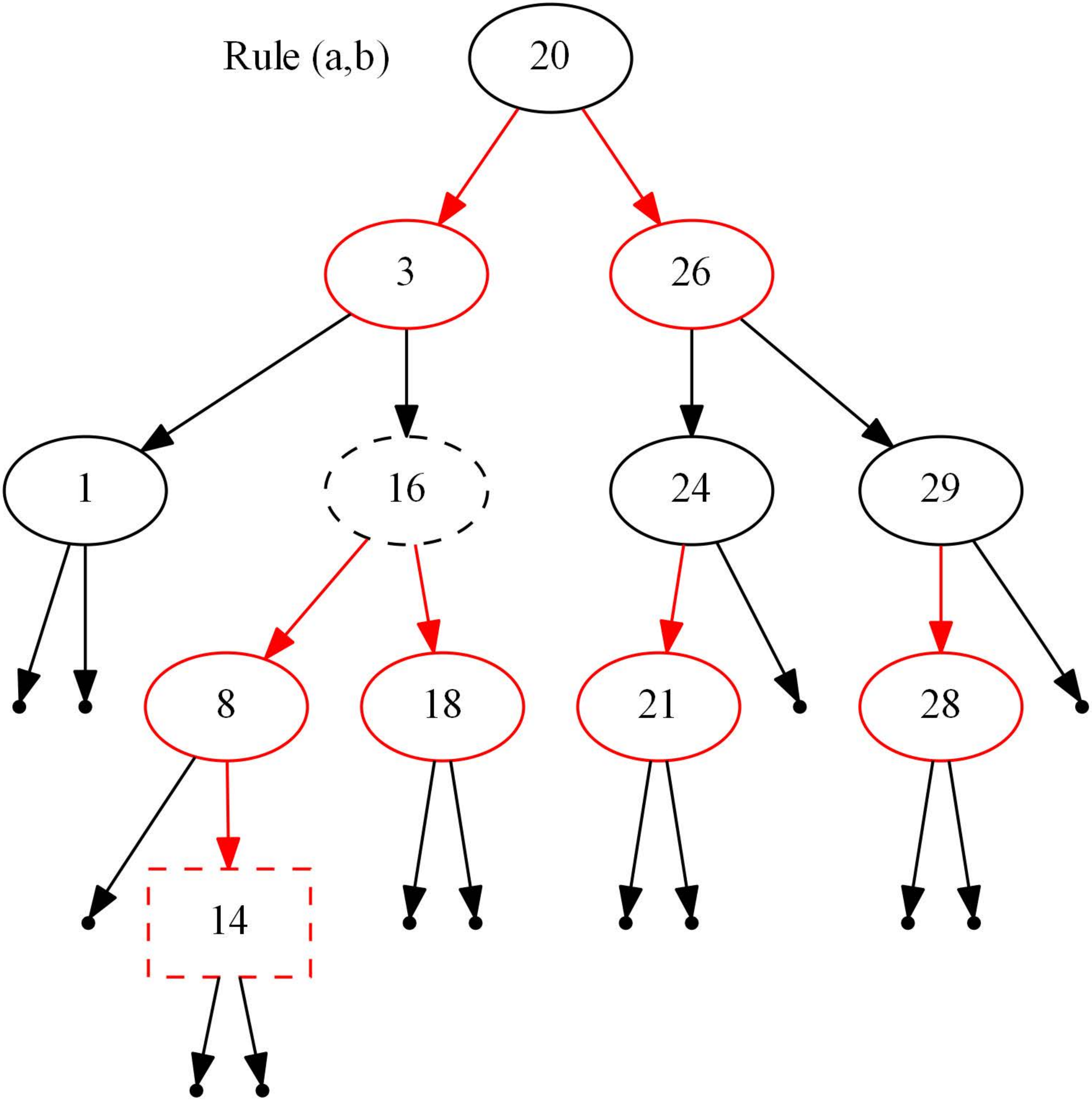
Insert14-After-top-down-pass




Rule (a,b)
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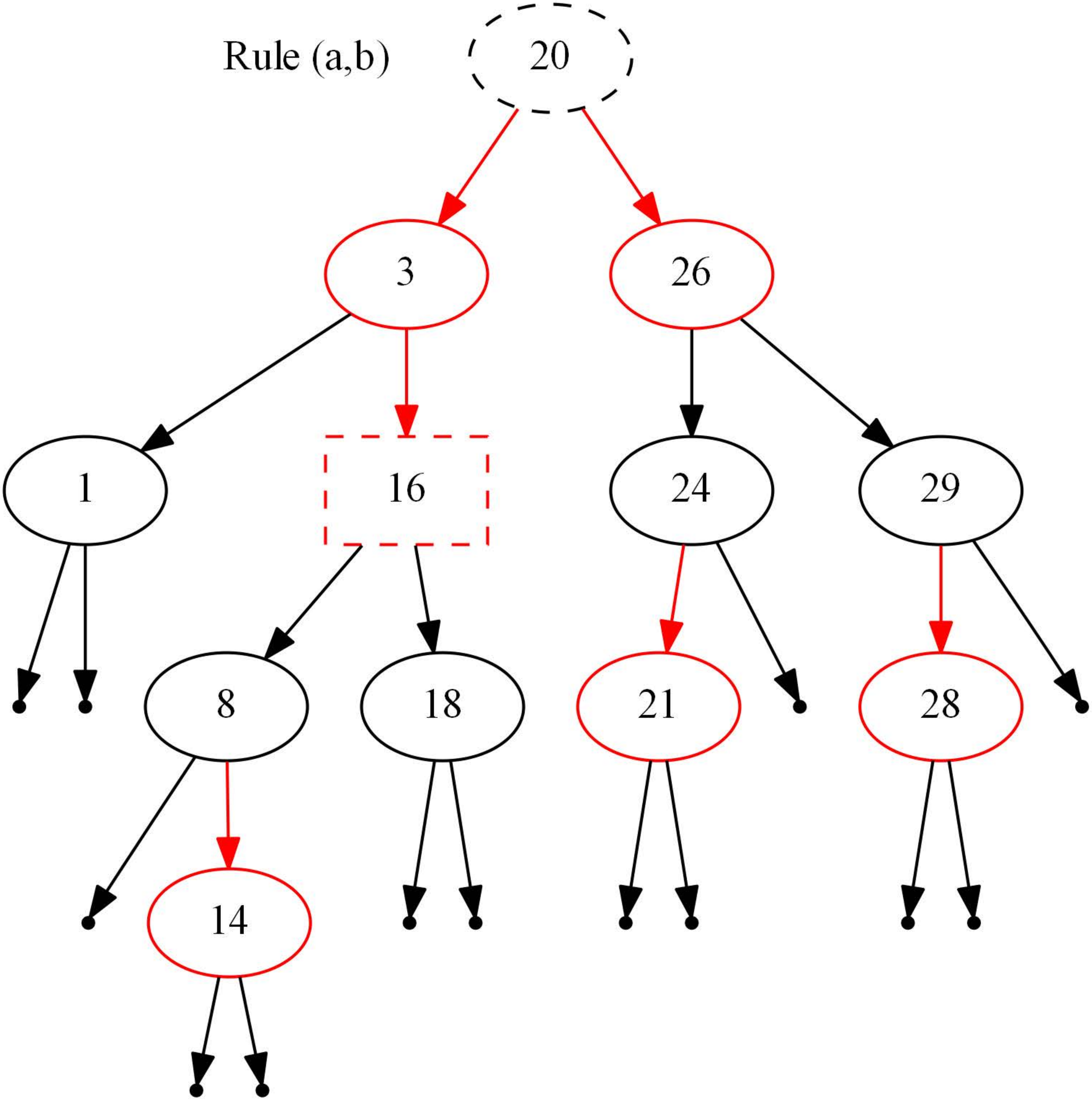
Rule (a,b)
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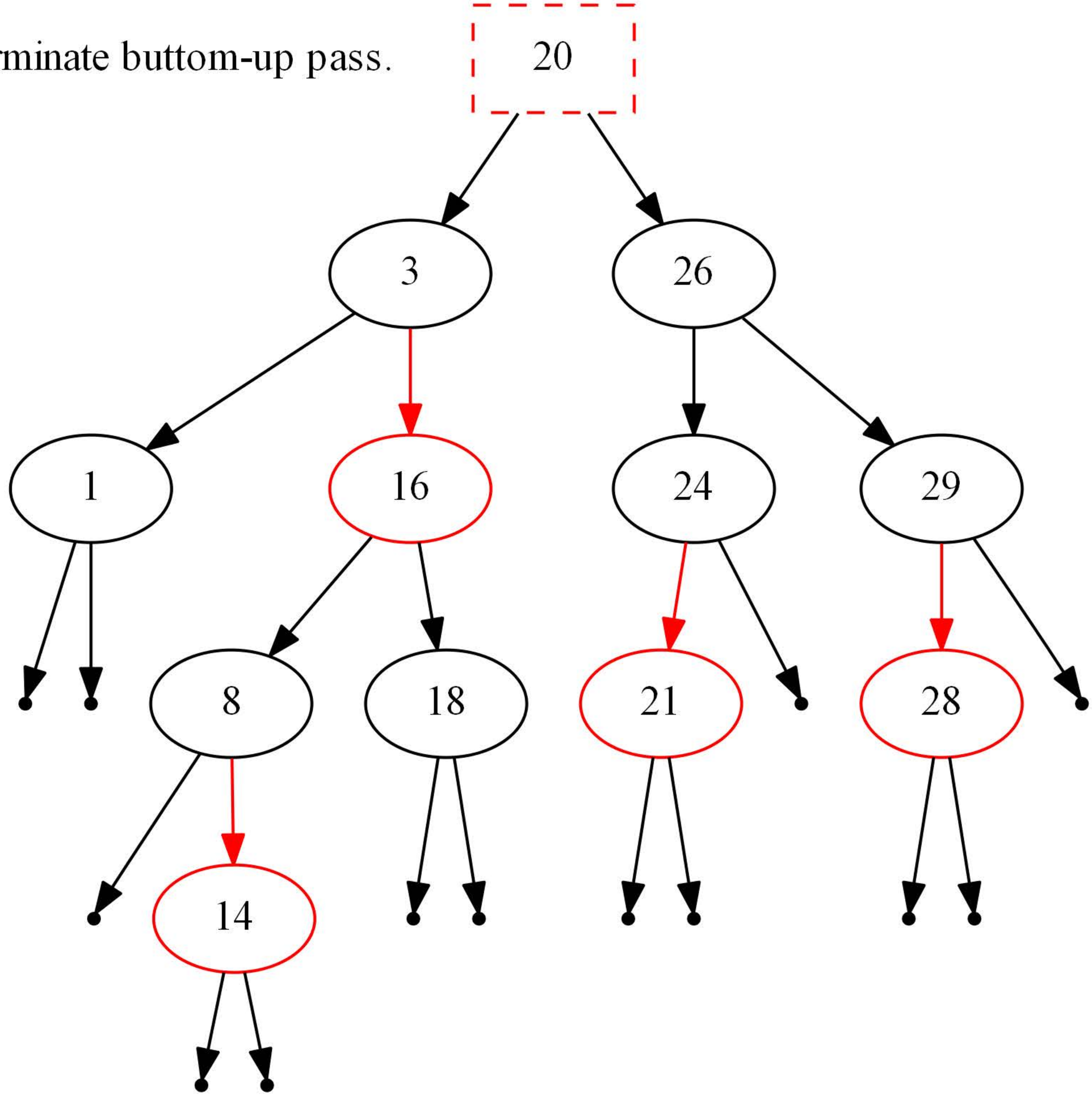
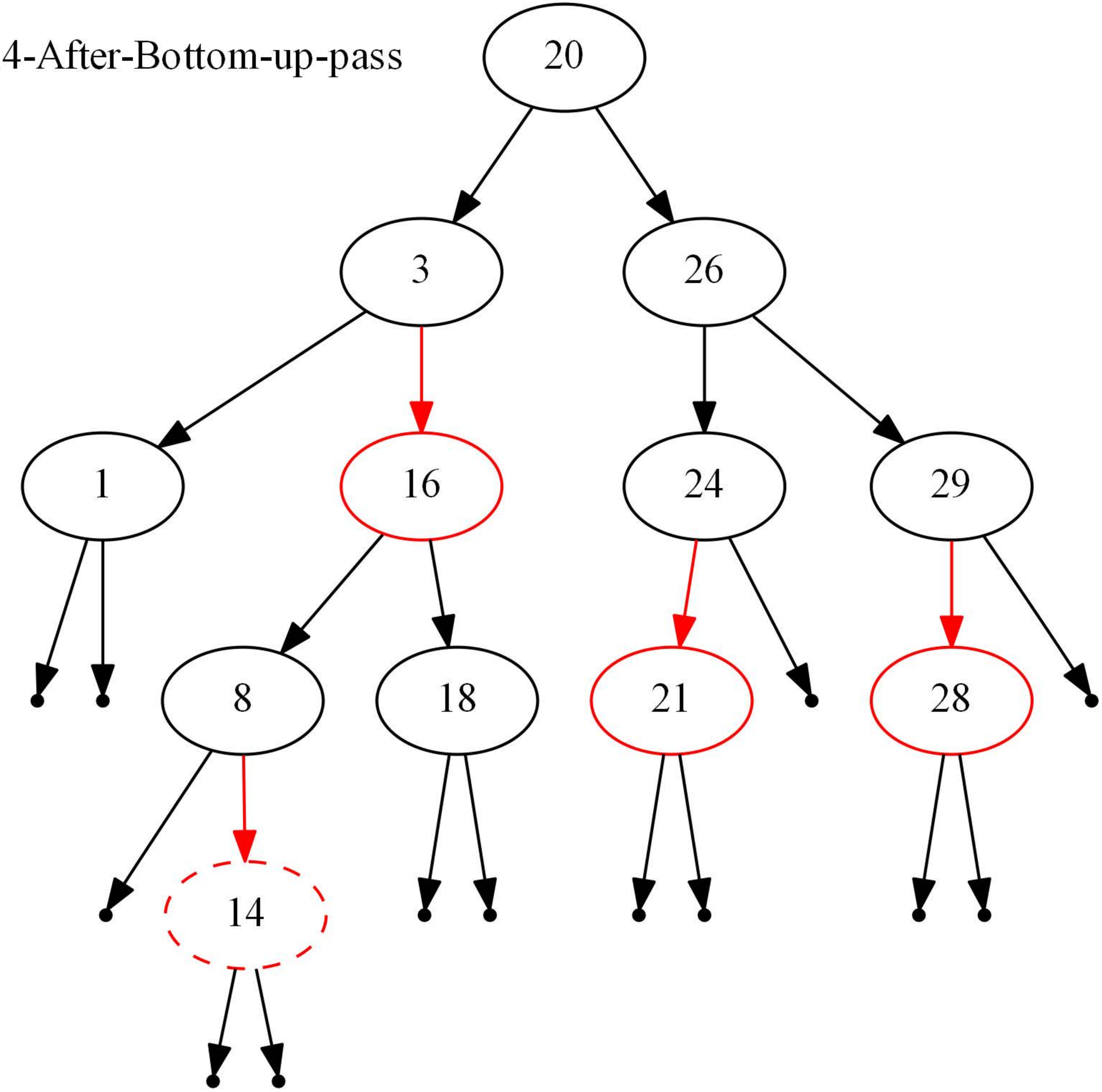
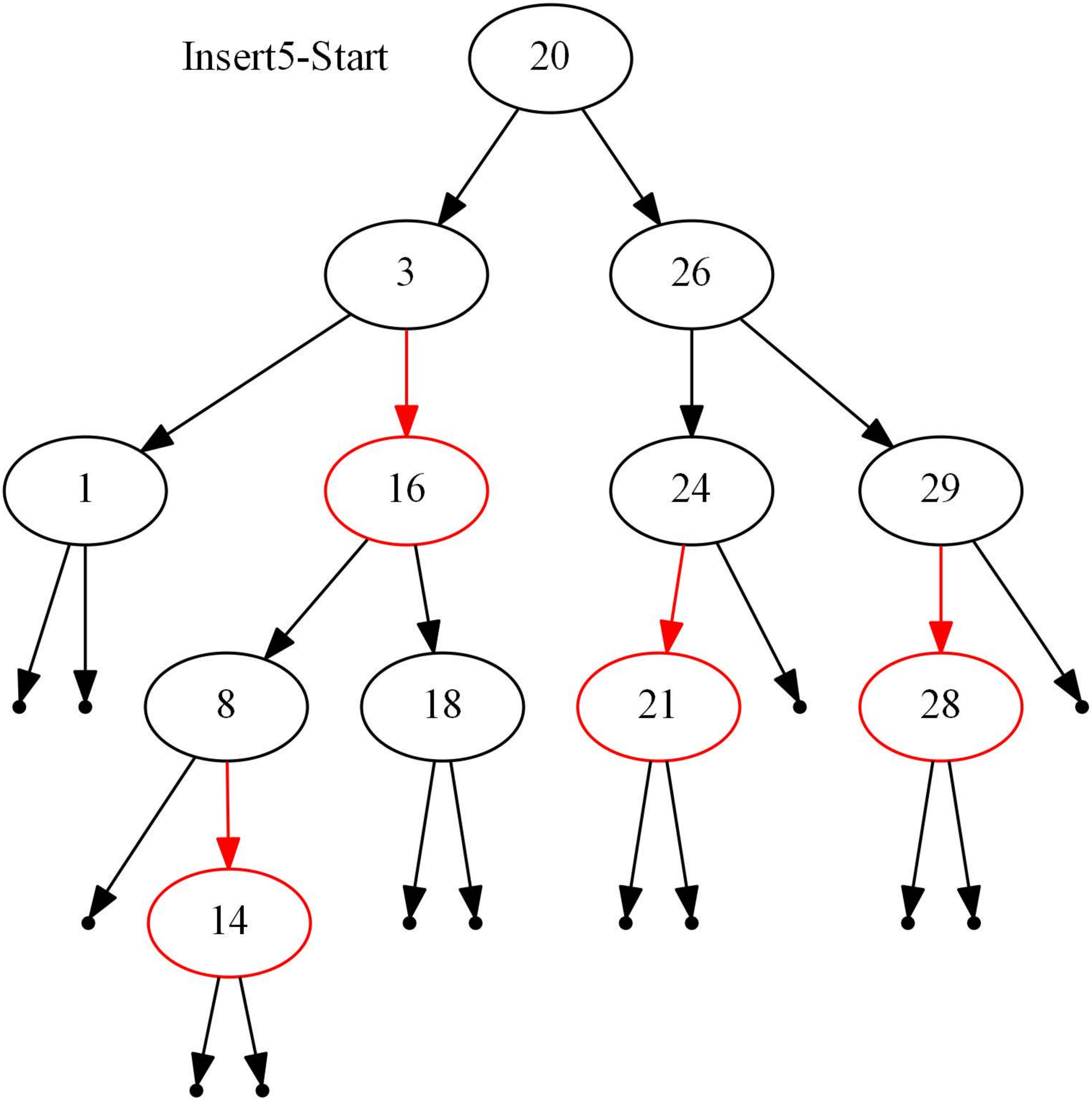
Parent is Black. Terminate buttom-up pass.



Insert14-After-Bottom-up-pass




Insert5-Start
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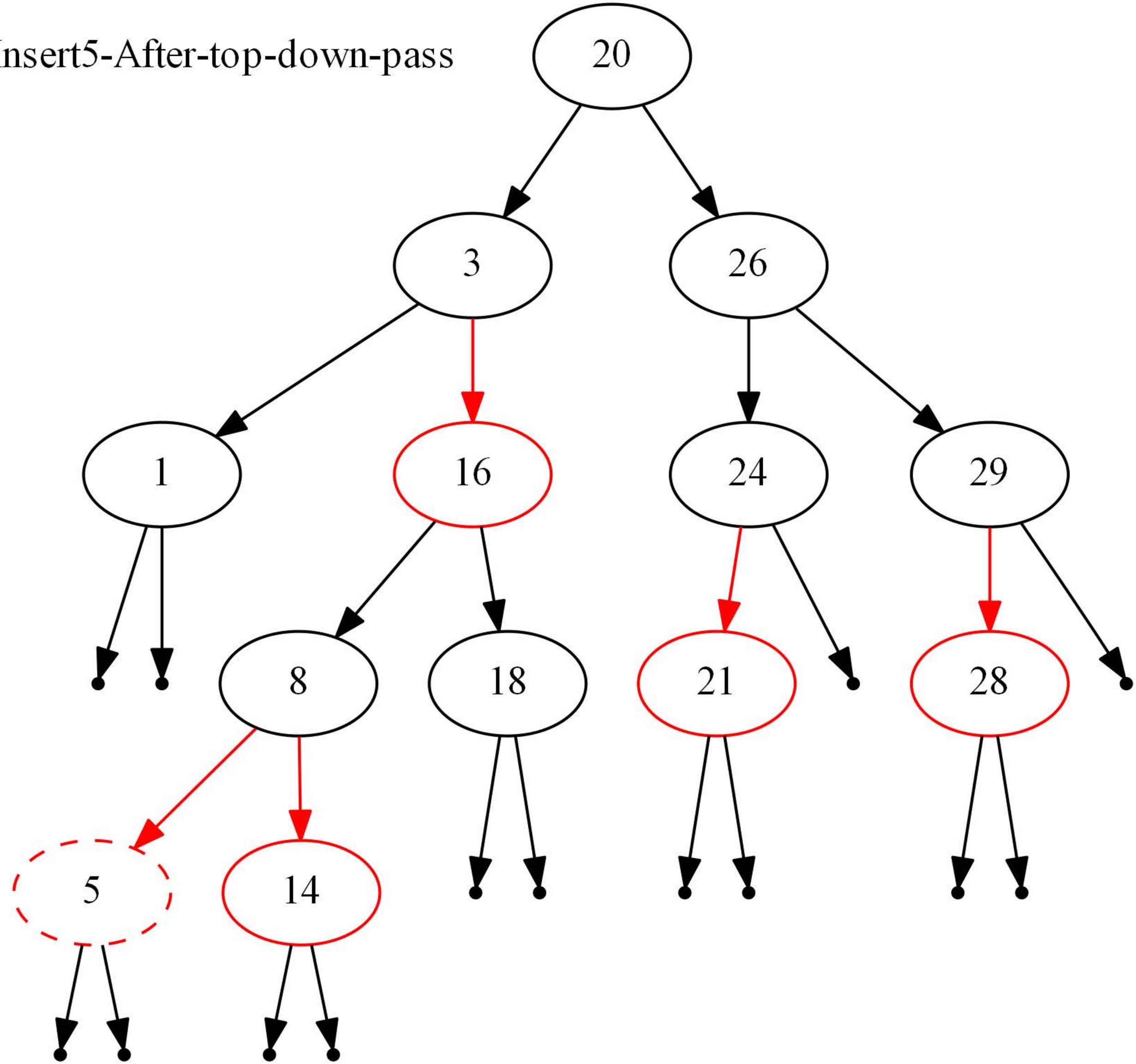
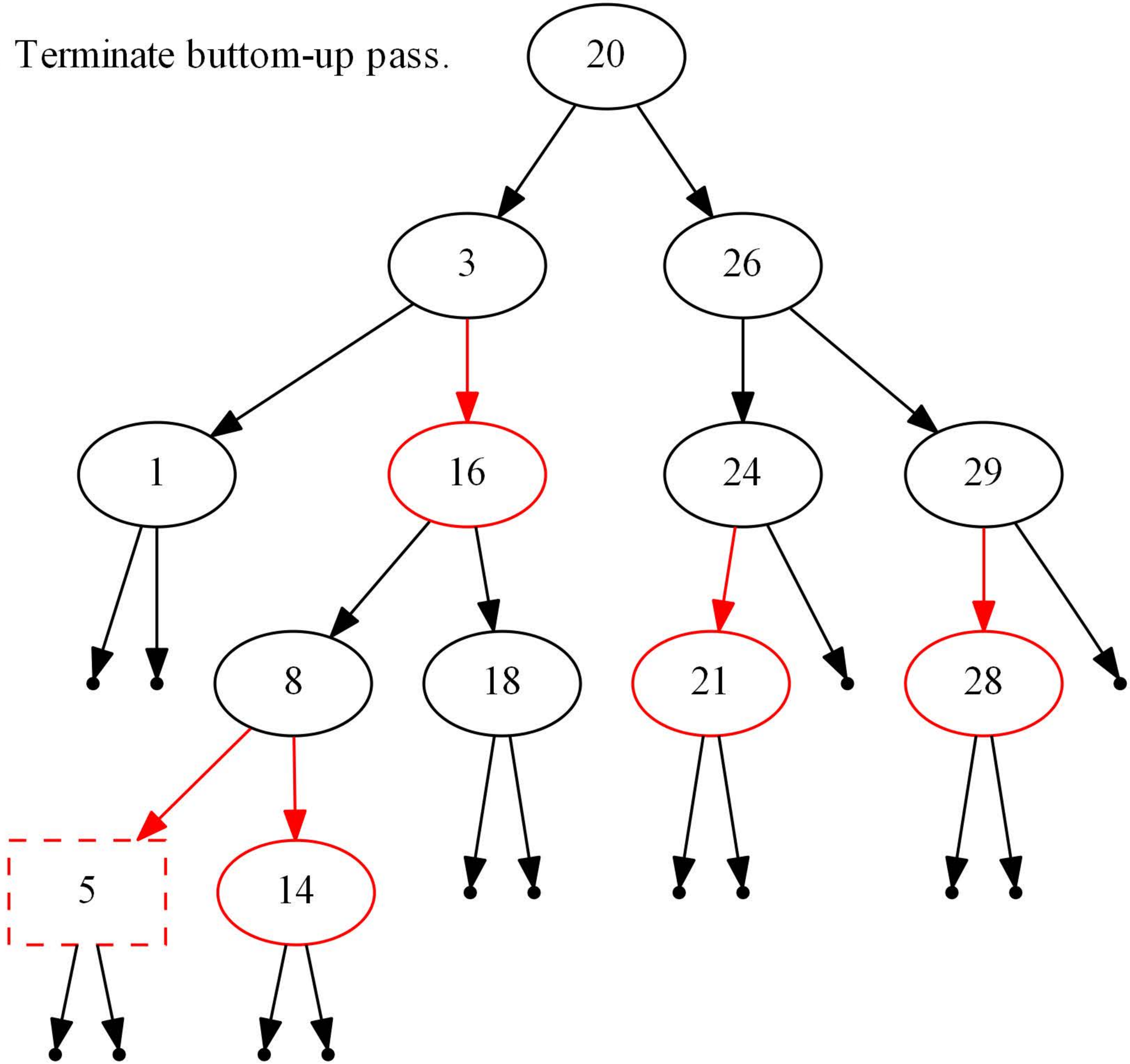
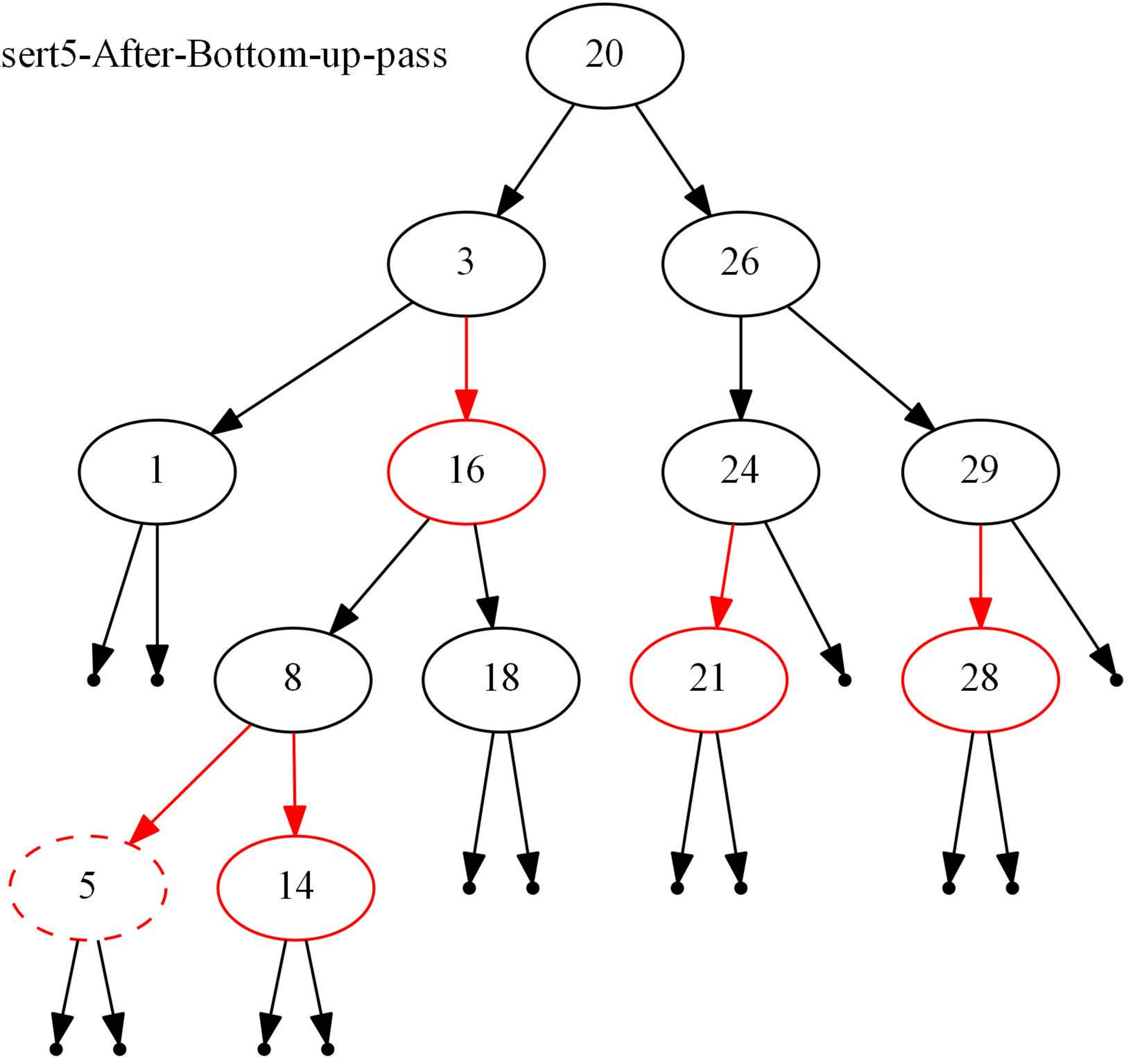
Insert5-After-top-down-pass

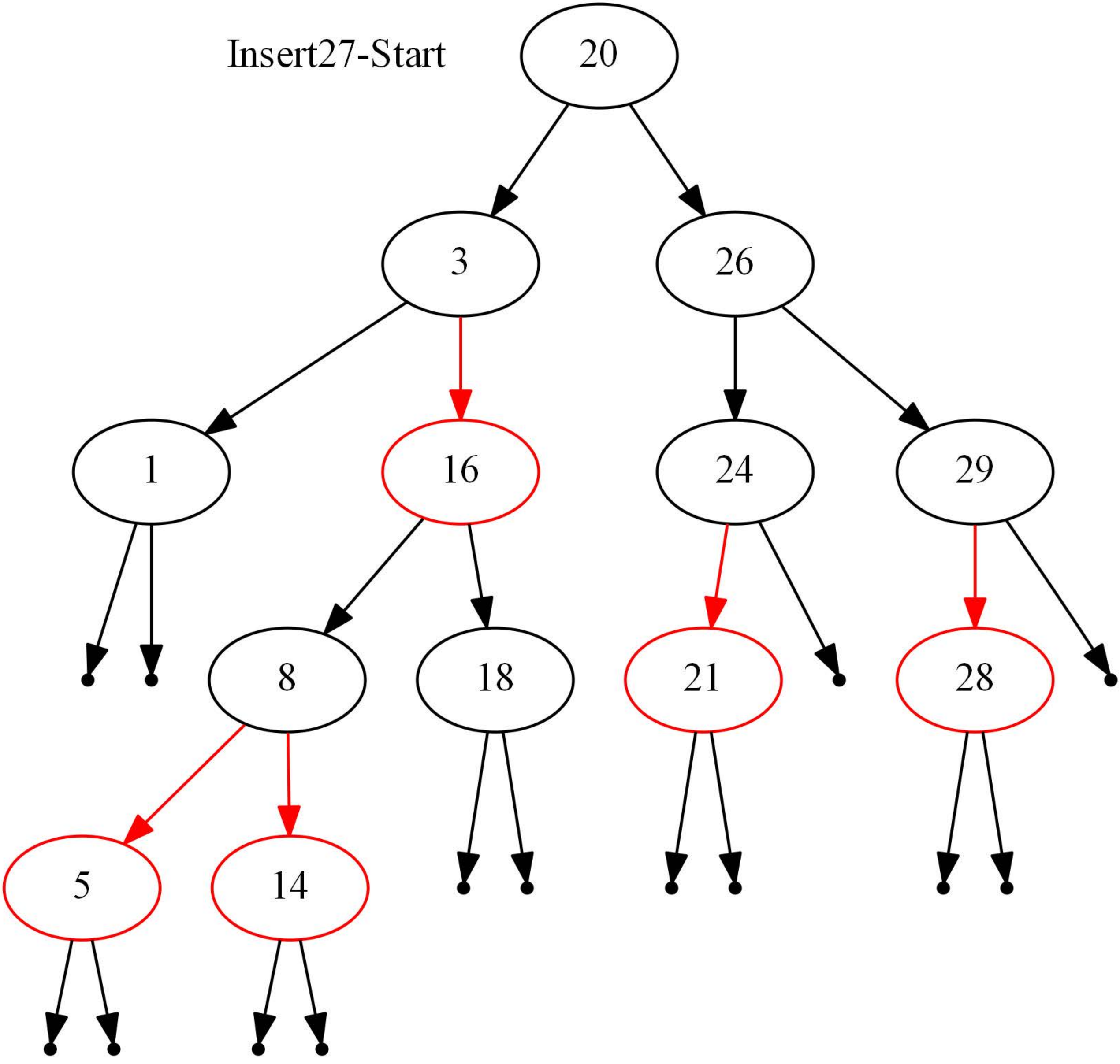


Parent is Black. Terminate buttom-up pass.



Insert5-After-Bottom-up-pass




Insert27-Start
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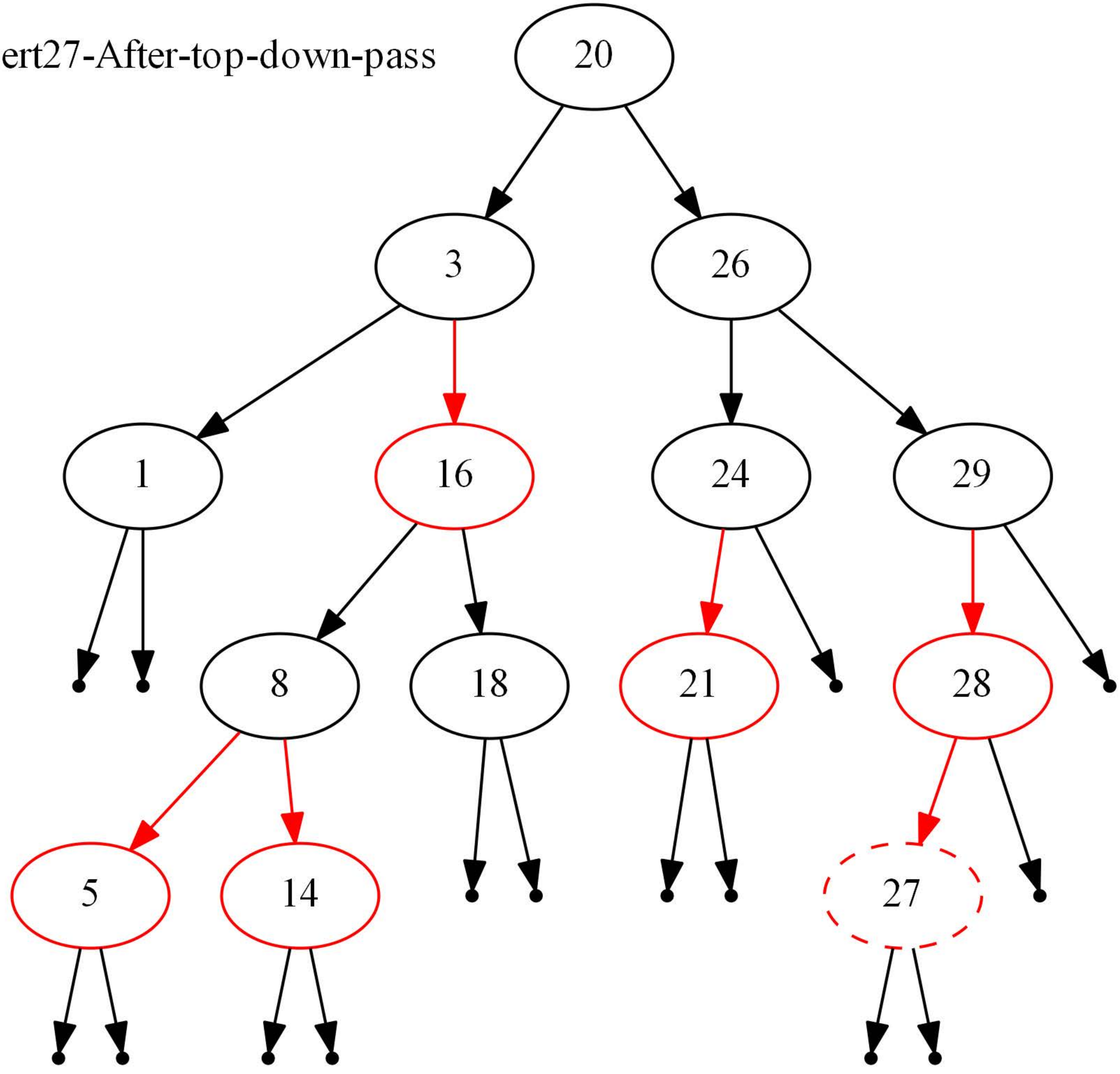
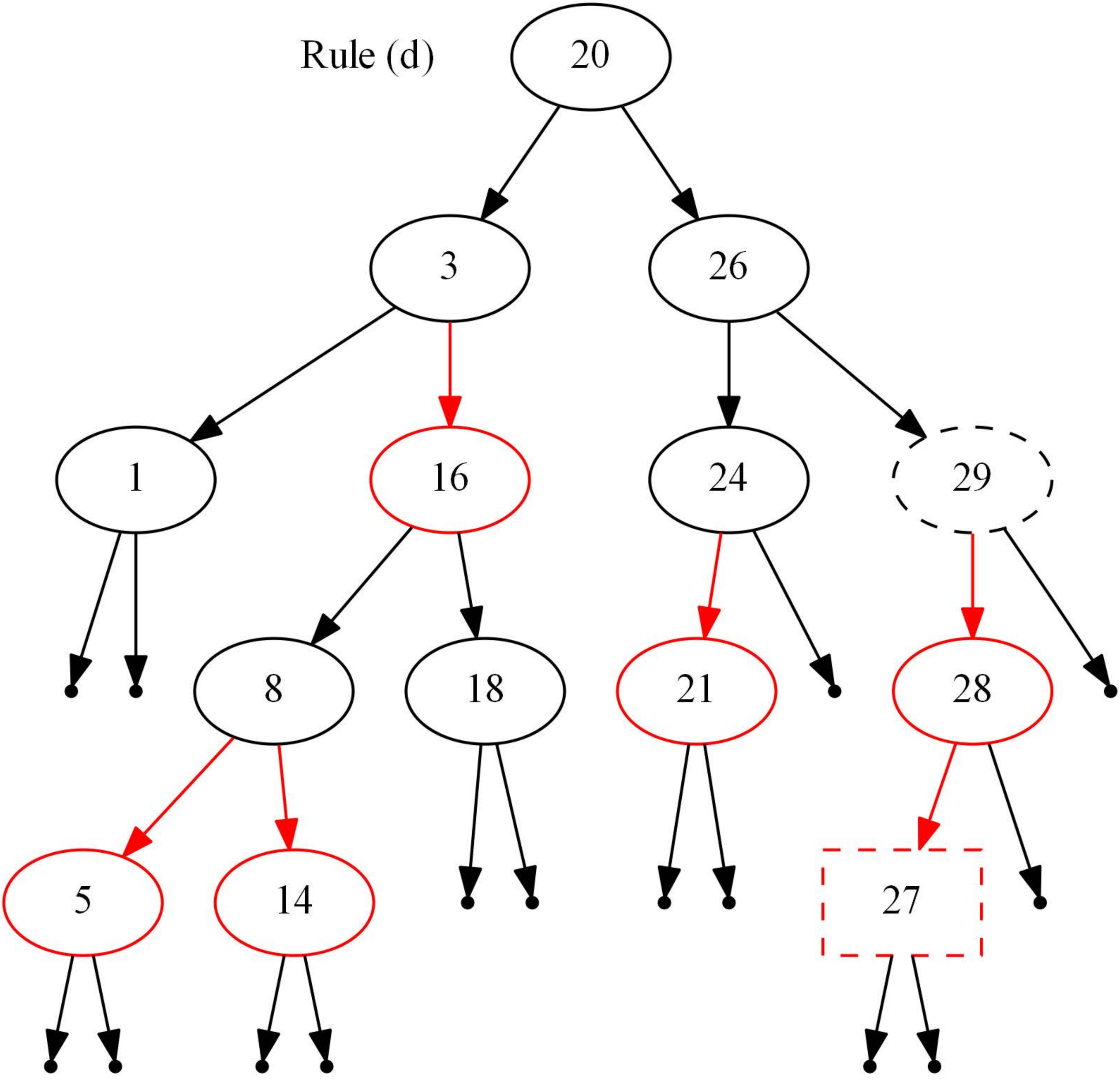
Insert27-After-top-down-pass




Rule (d)
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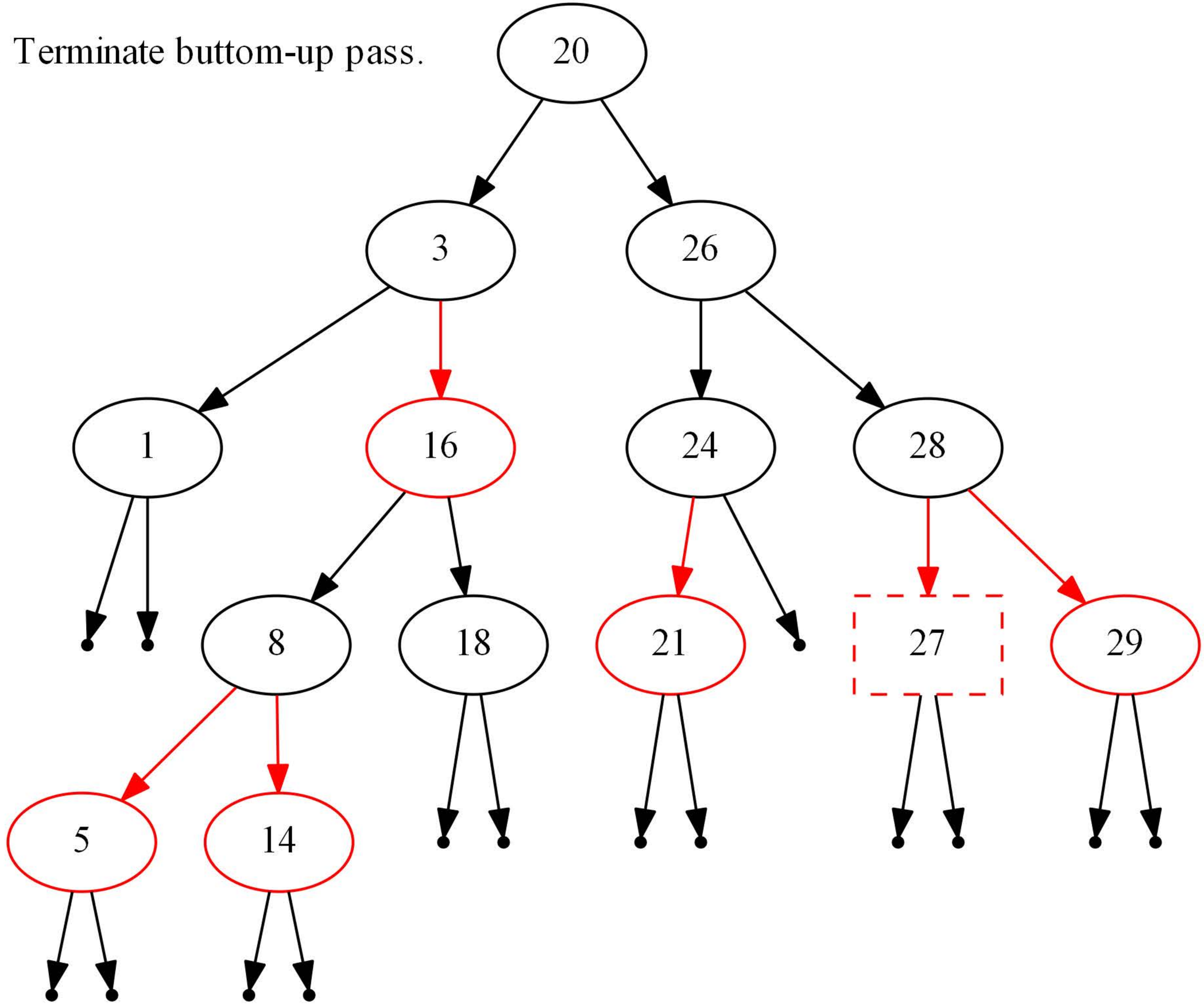
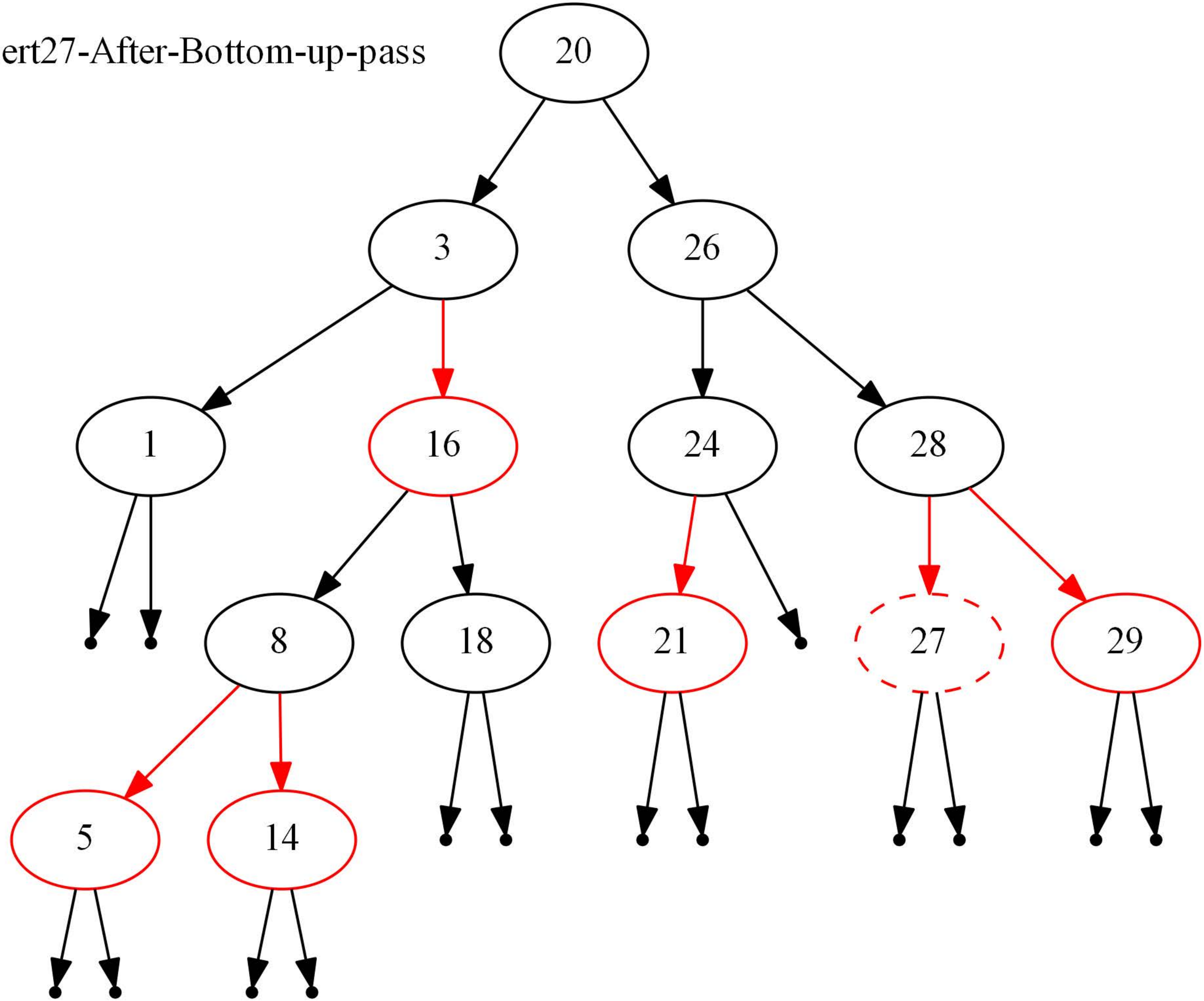
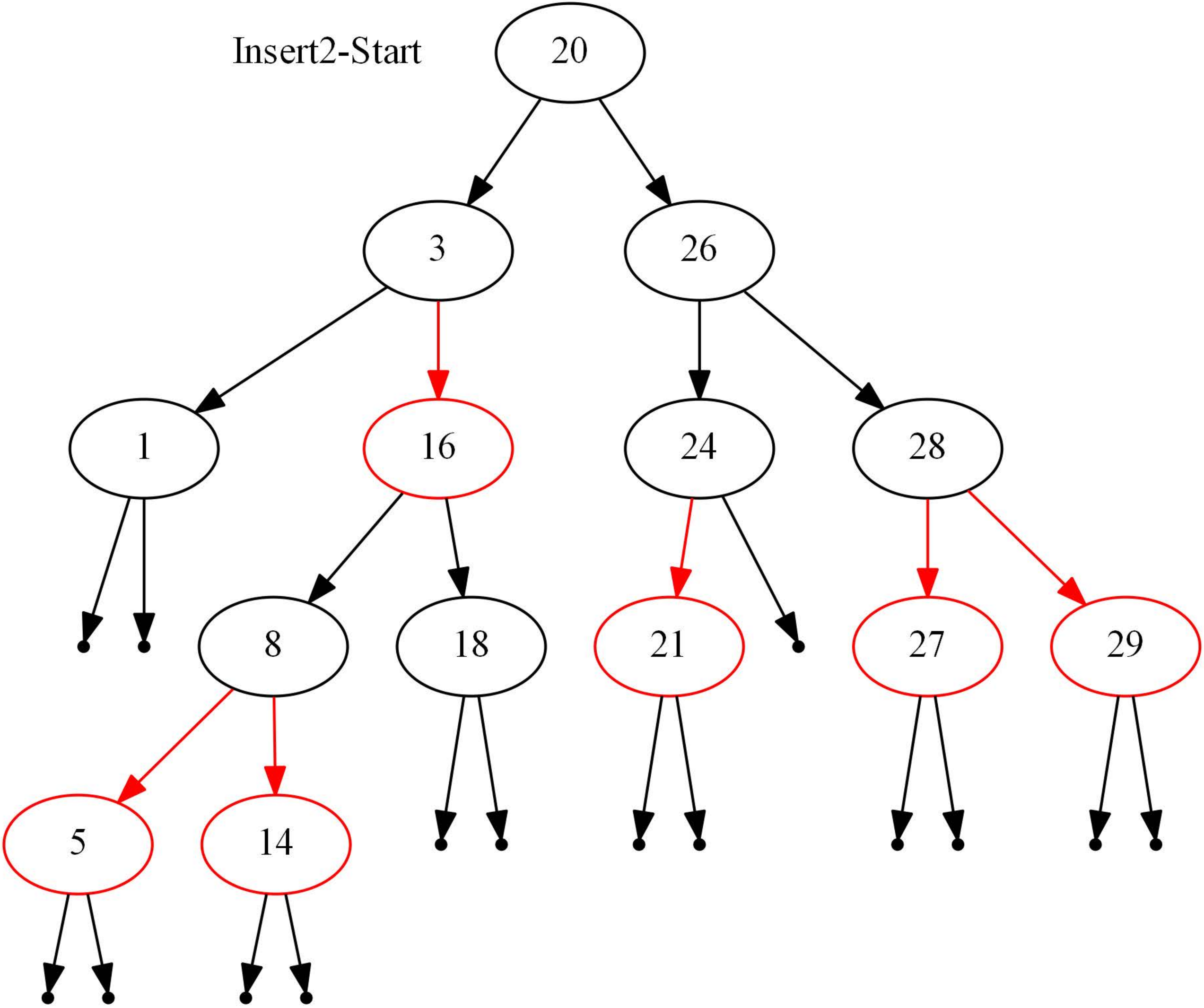
Parent is Black. Terminate buttom-up pass.



Insert27-After-Bottom-up-pass




Insert2-Start
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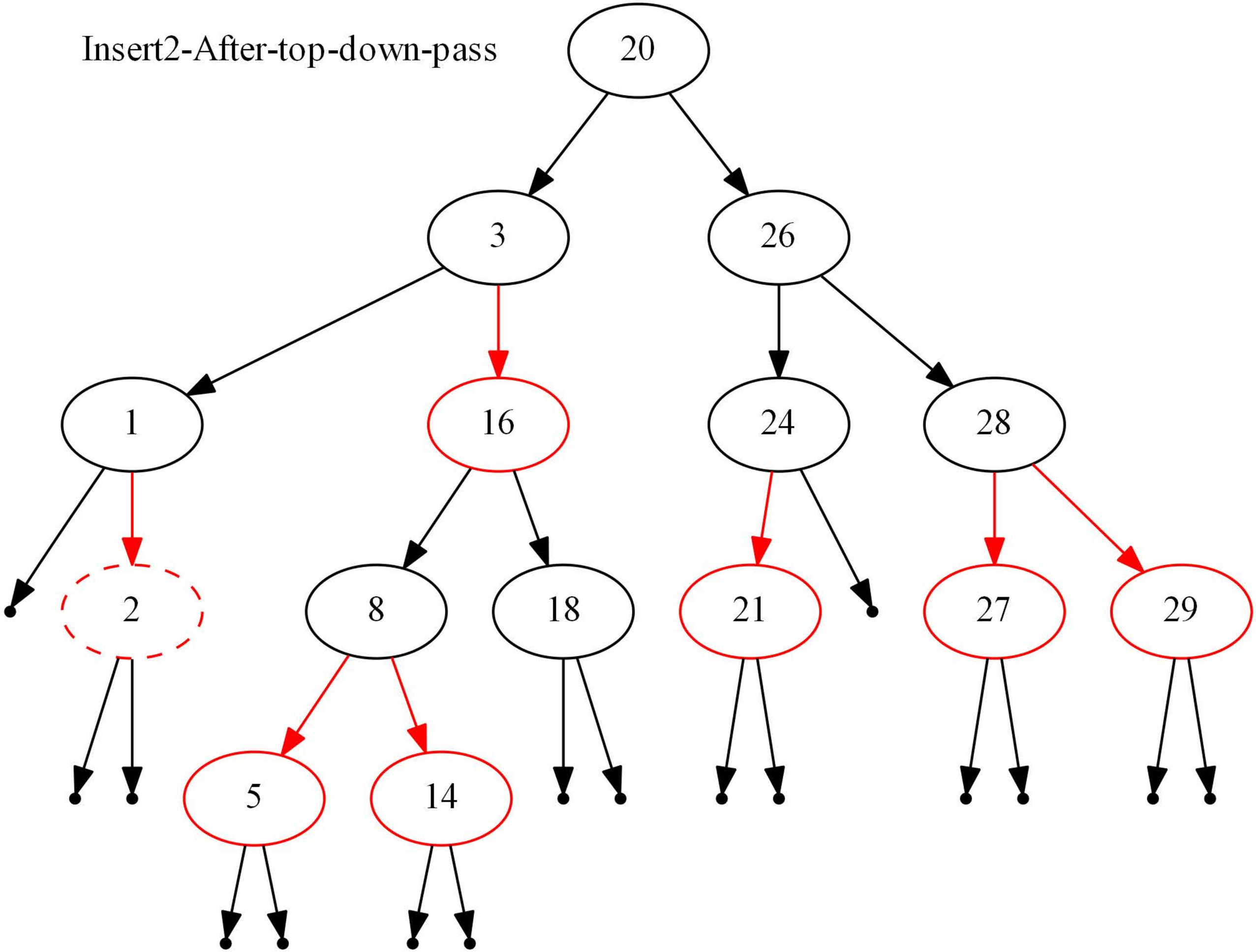
Insert2-After-top-down-pass
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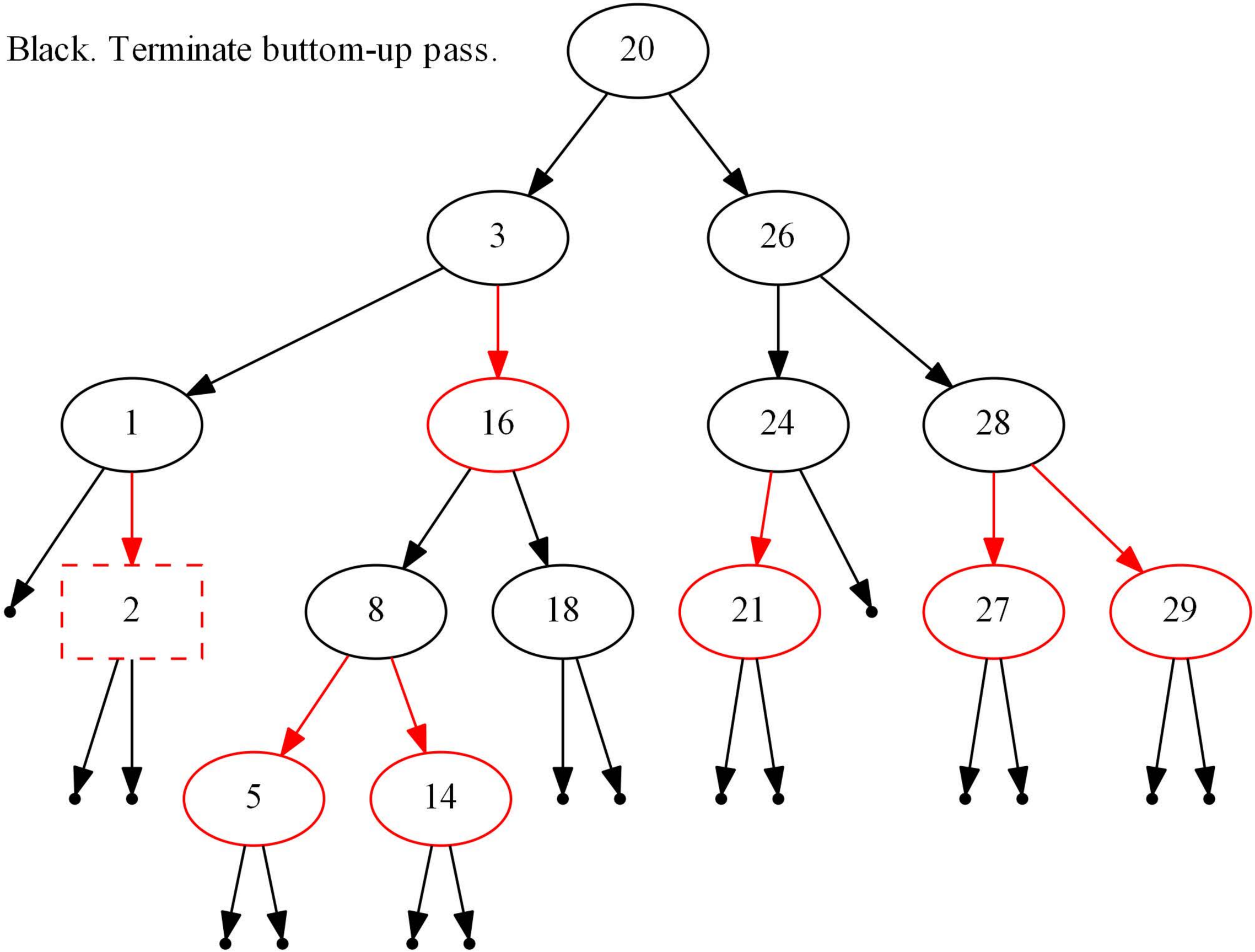
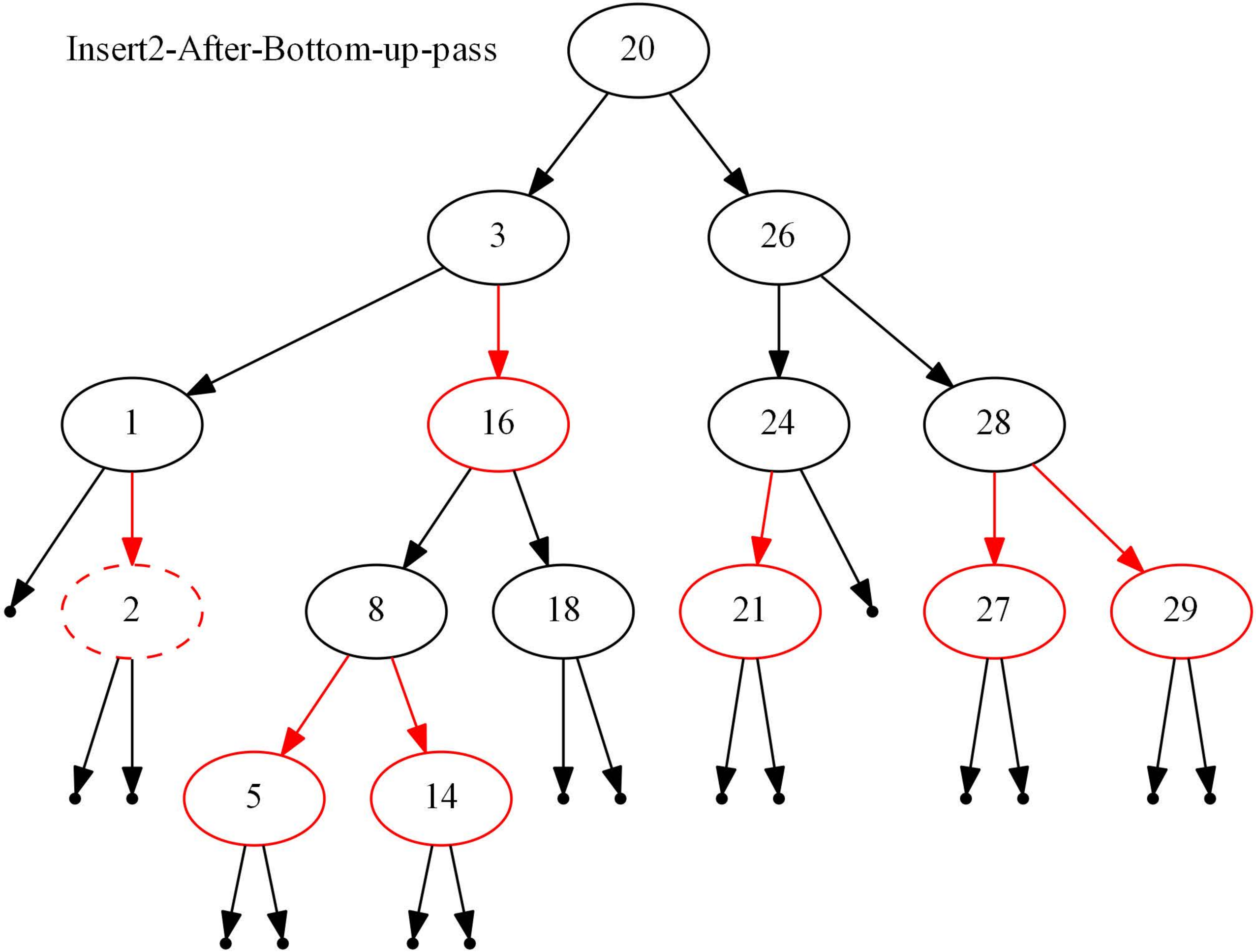
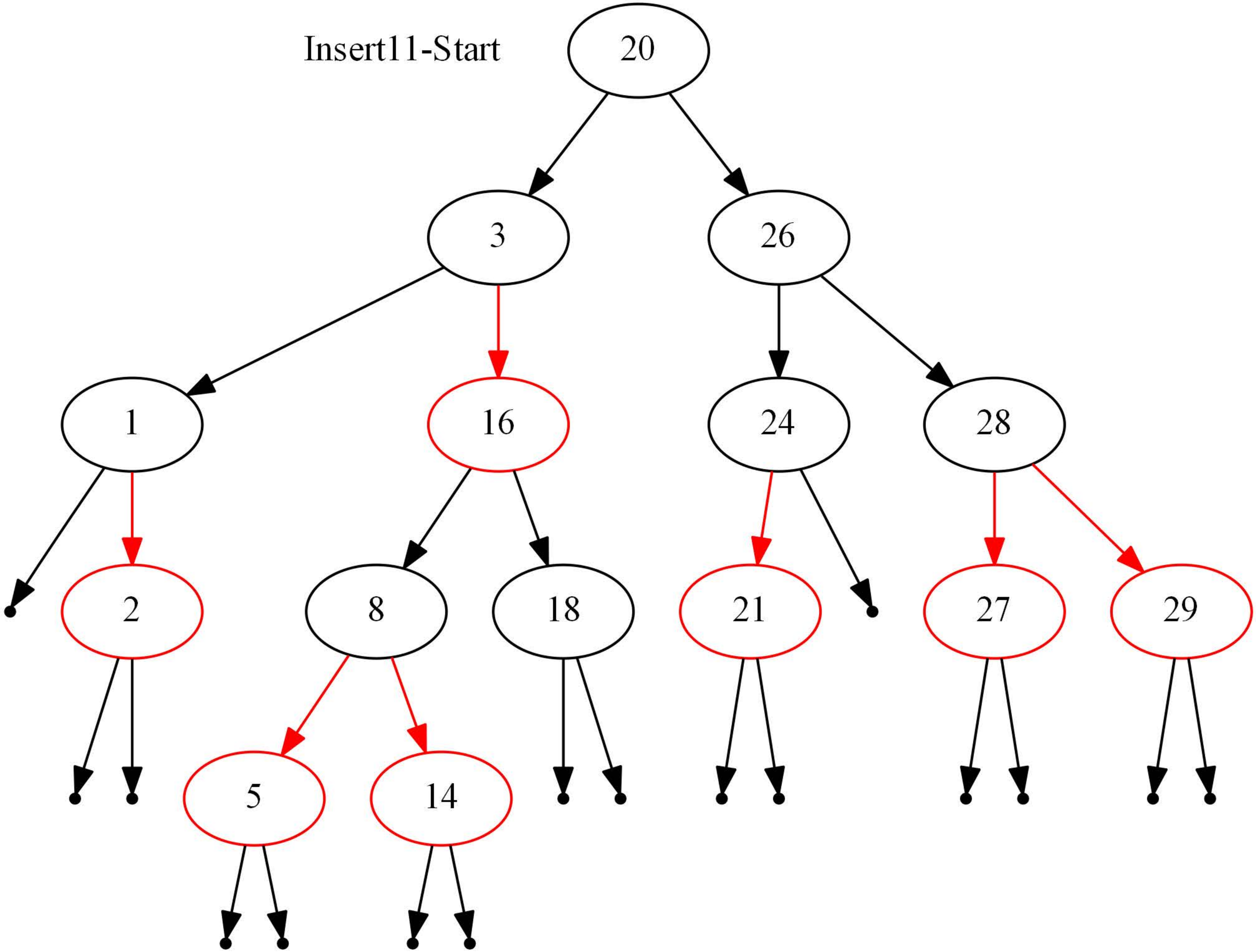
Parent is Black. Terminate buttom-up pass.



Insert2-After-Bottom-up-pass




Insert11-Start
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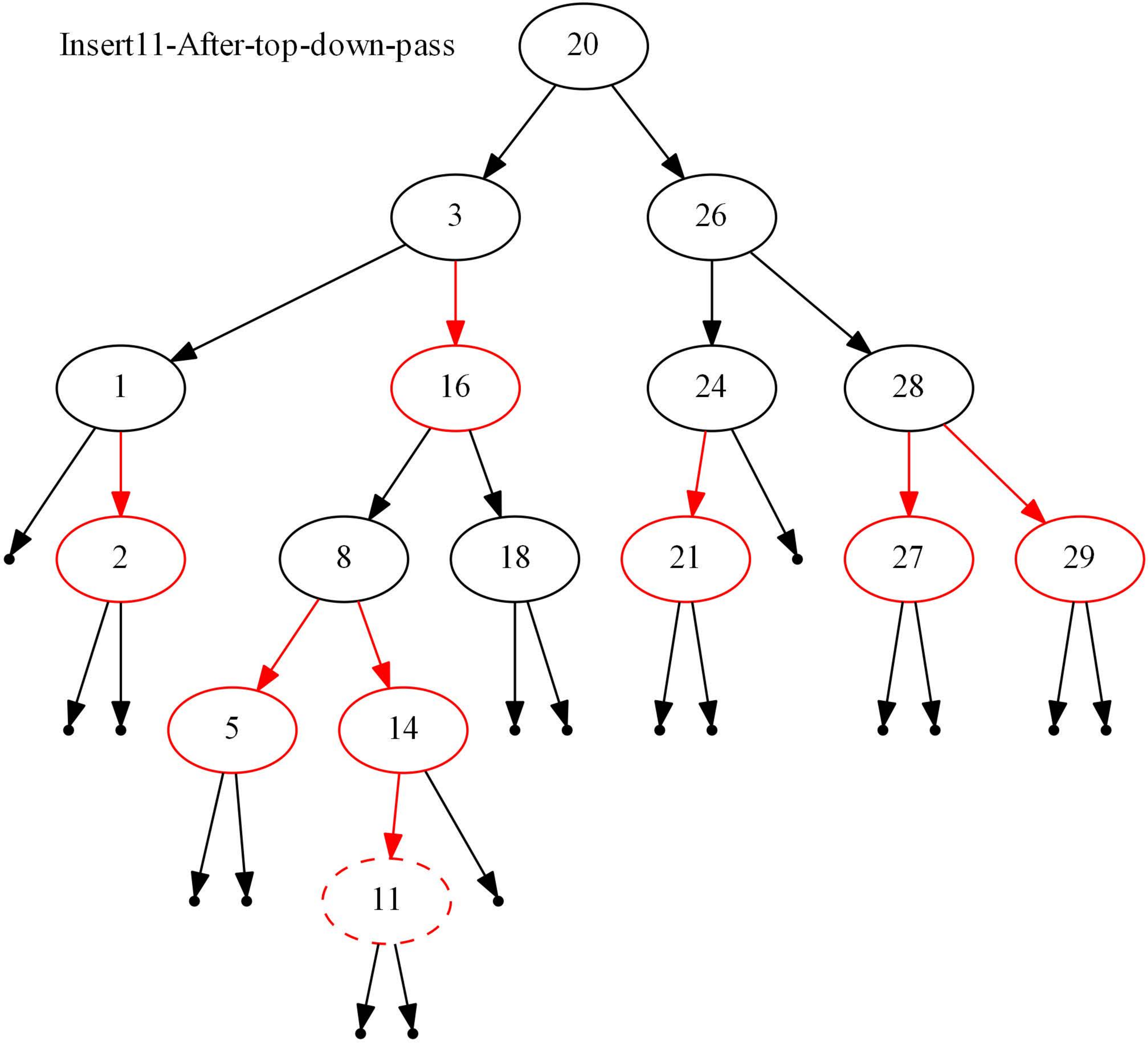
Insert11-After-top-down-pass
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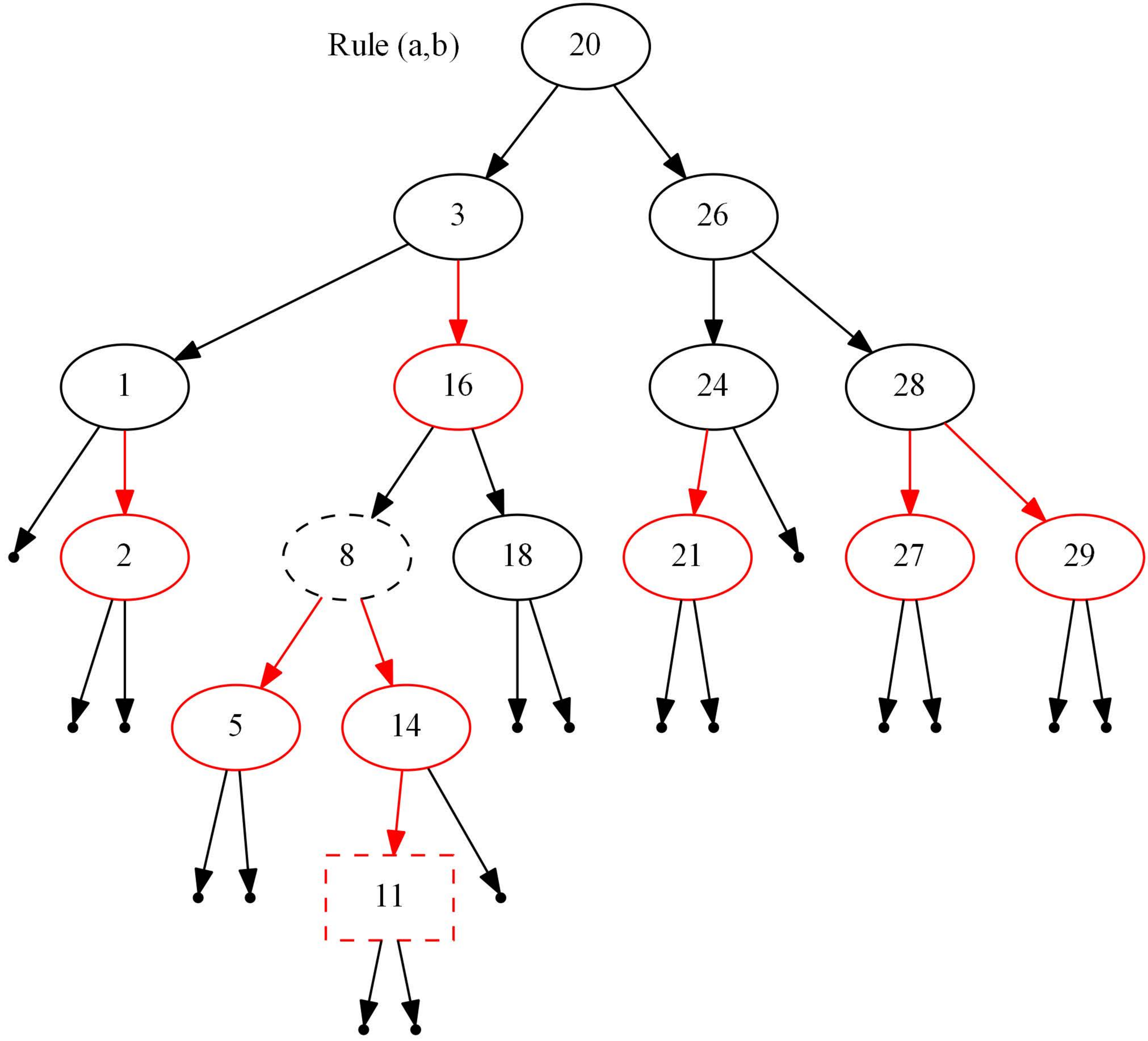
Rule (a,b)
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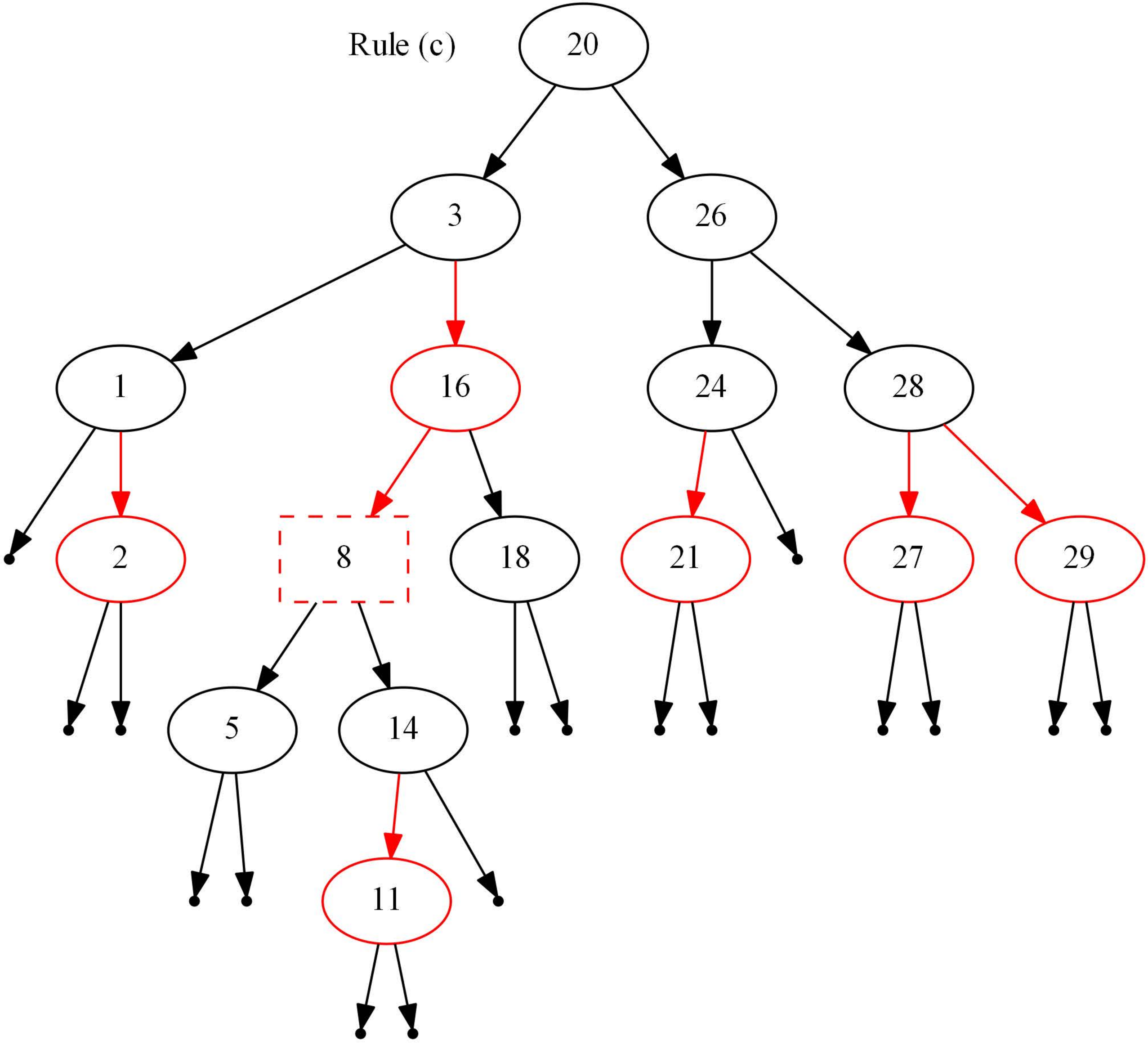
Rule (c)
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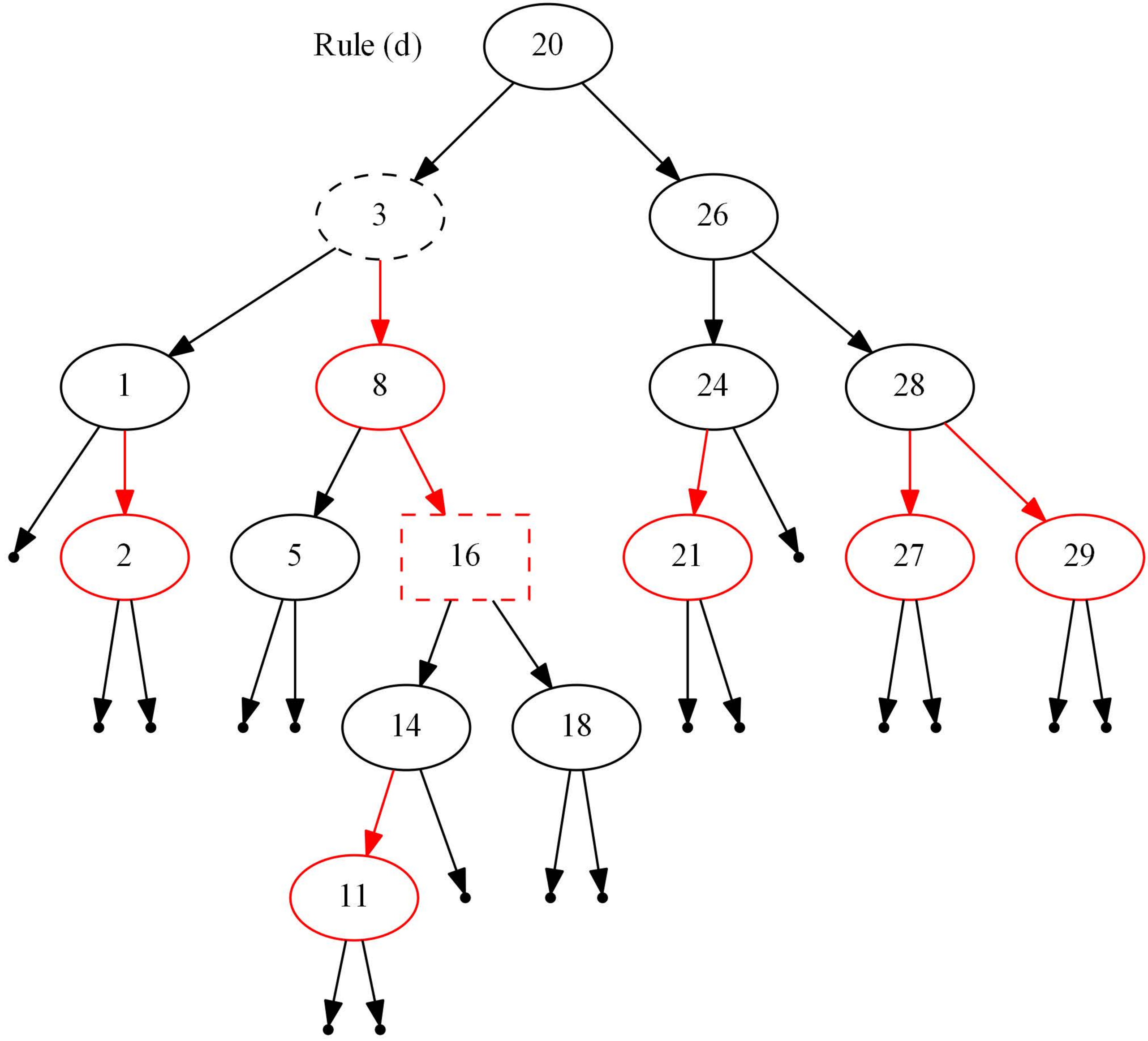
Rule (d)
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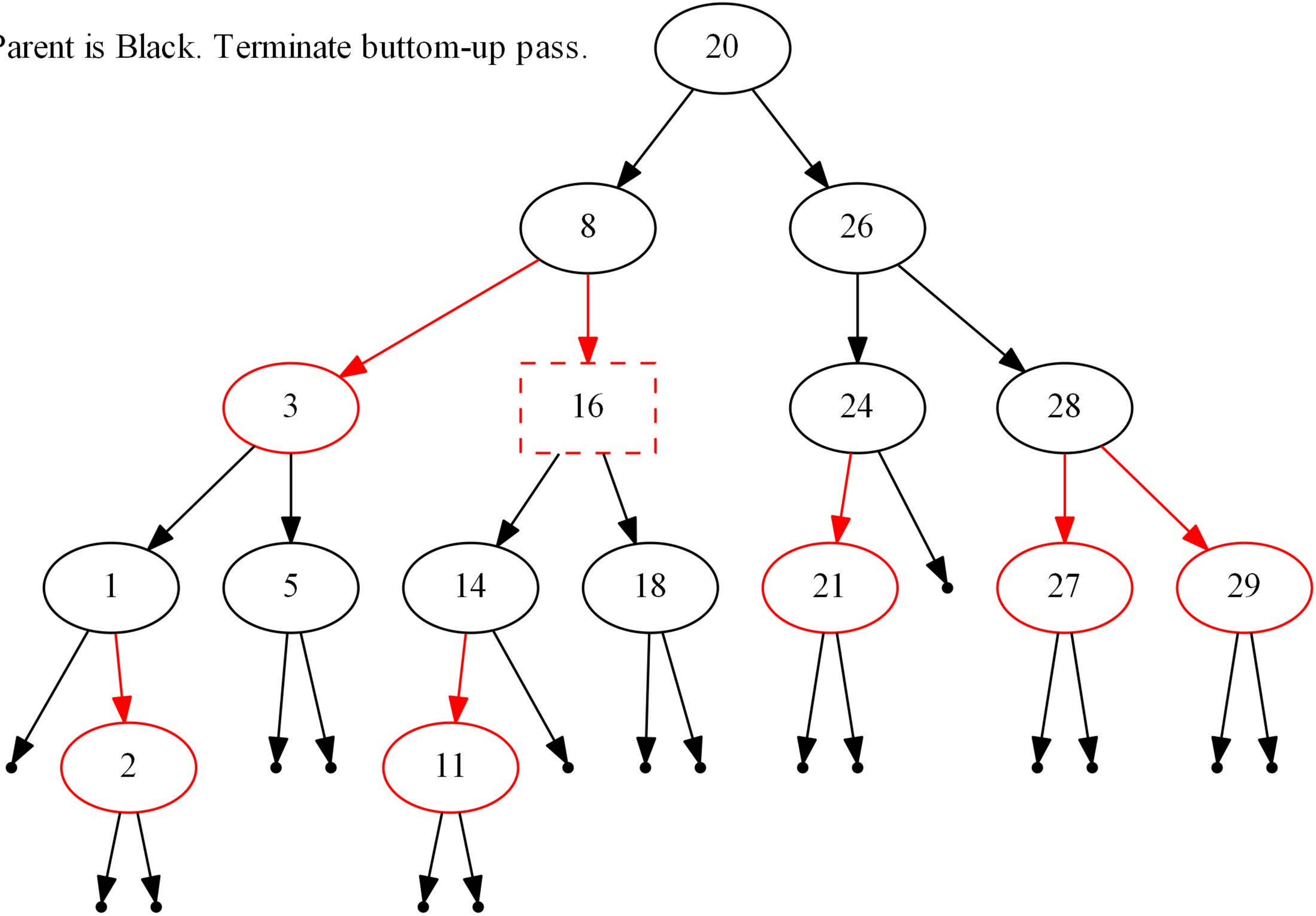
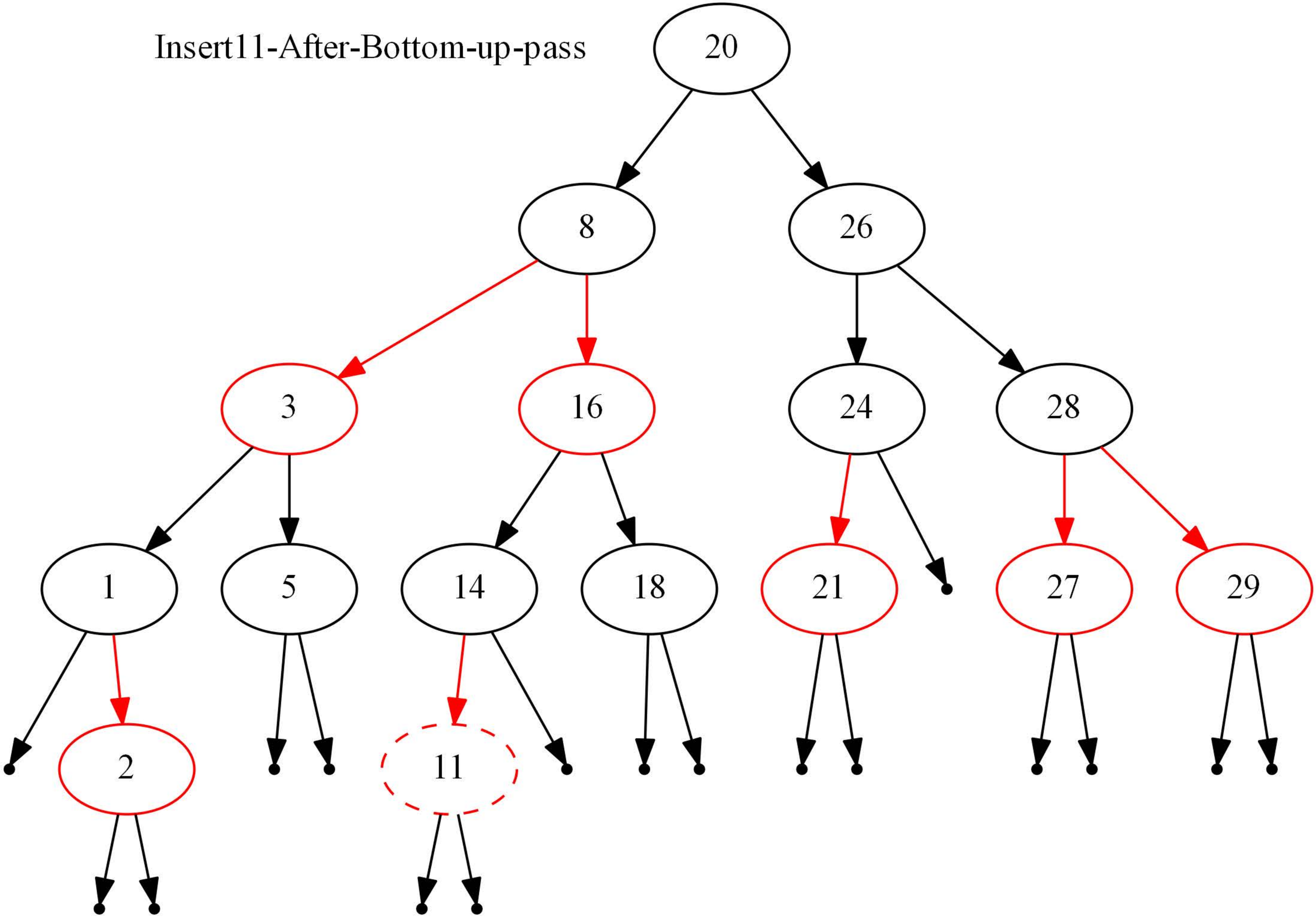
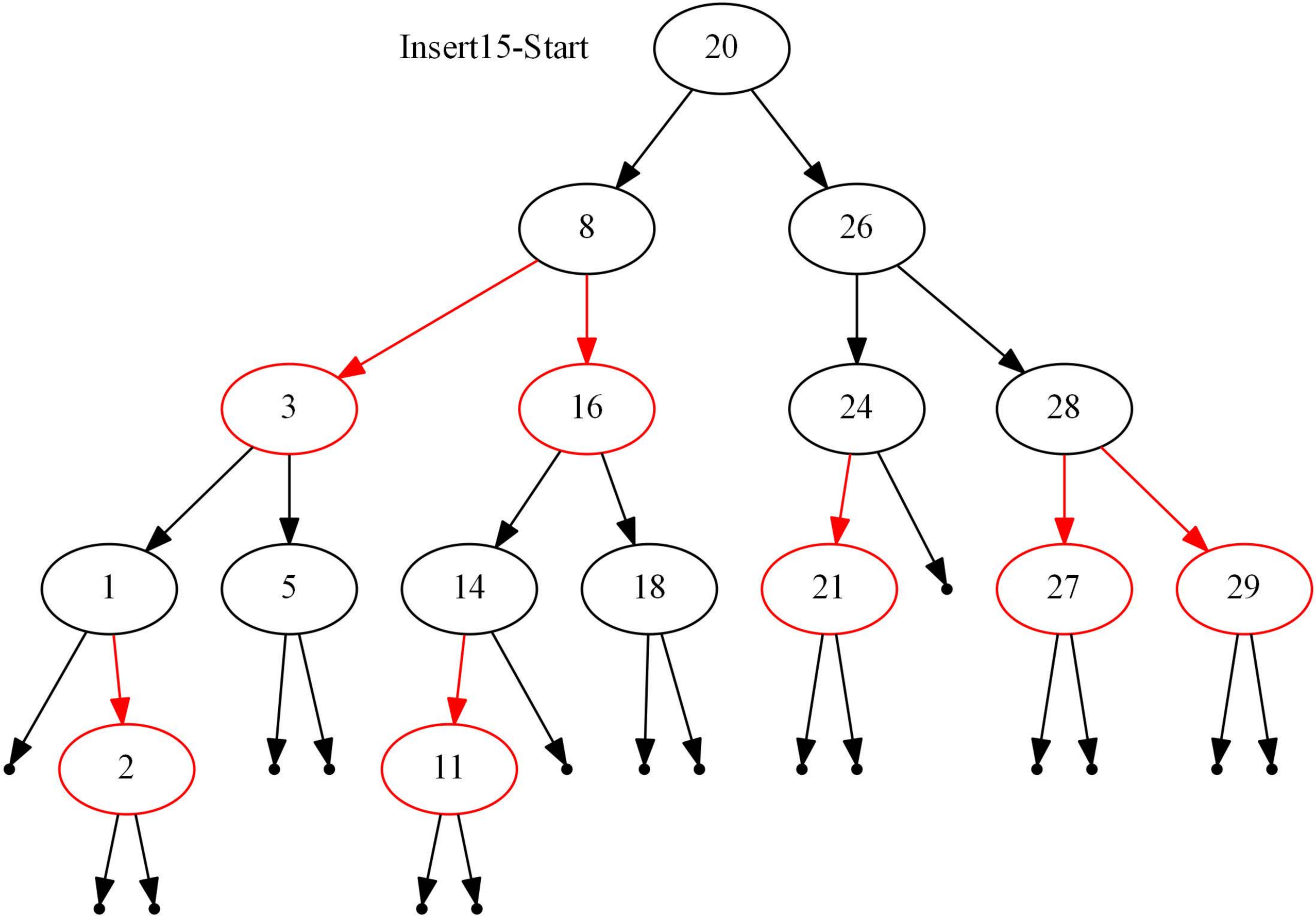
Parent is Black. Terminate buttom-up pass.



Insert11-After-Bottom-up-pass




Insert15-Start
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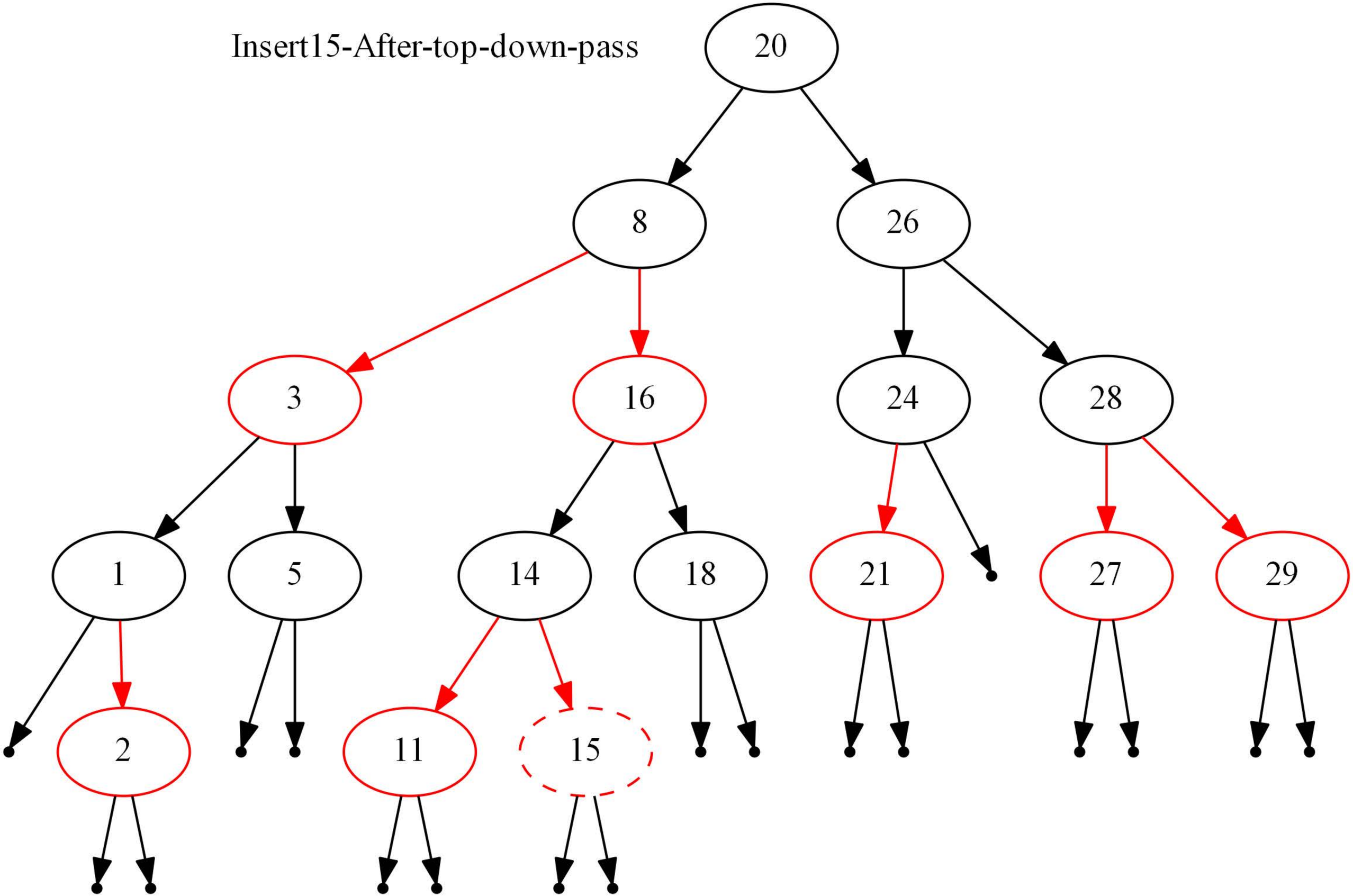
Insert15-After-top-down-pass
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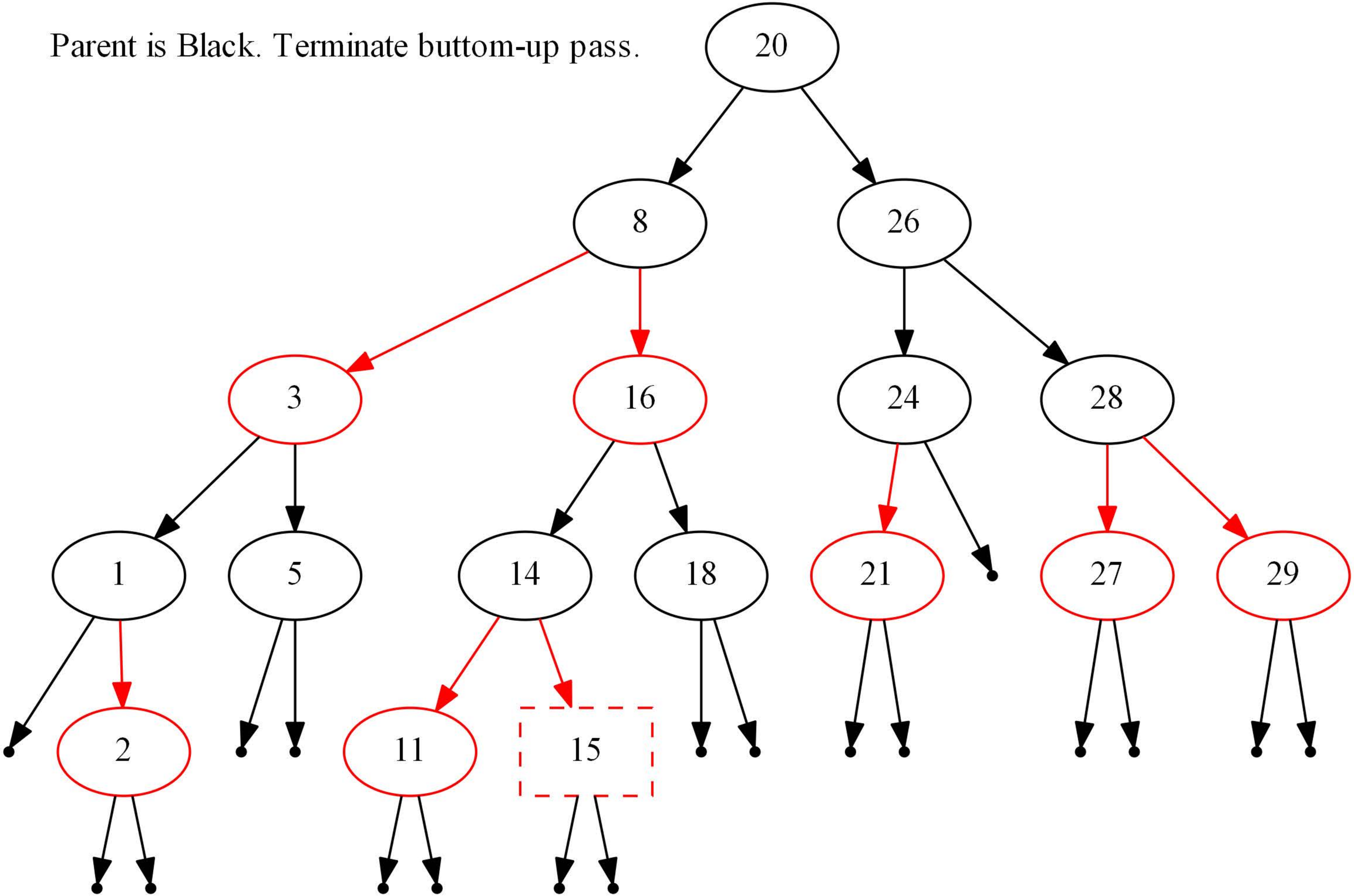
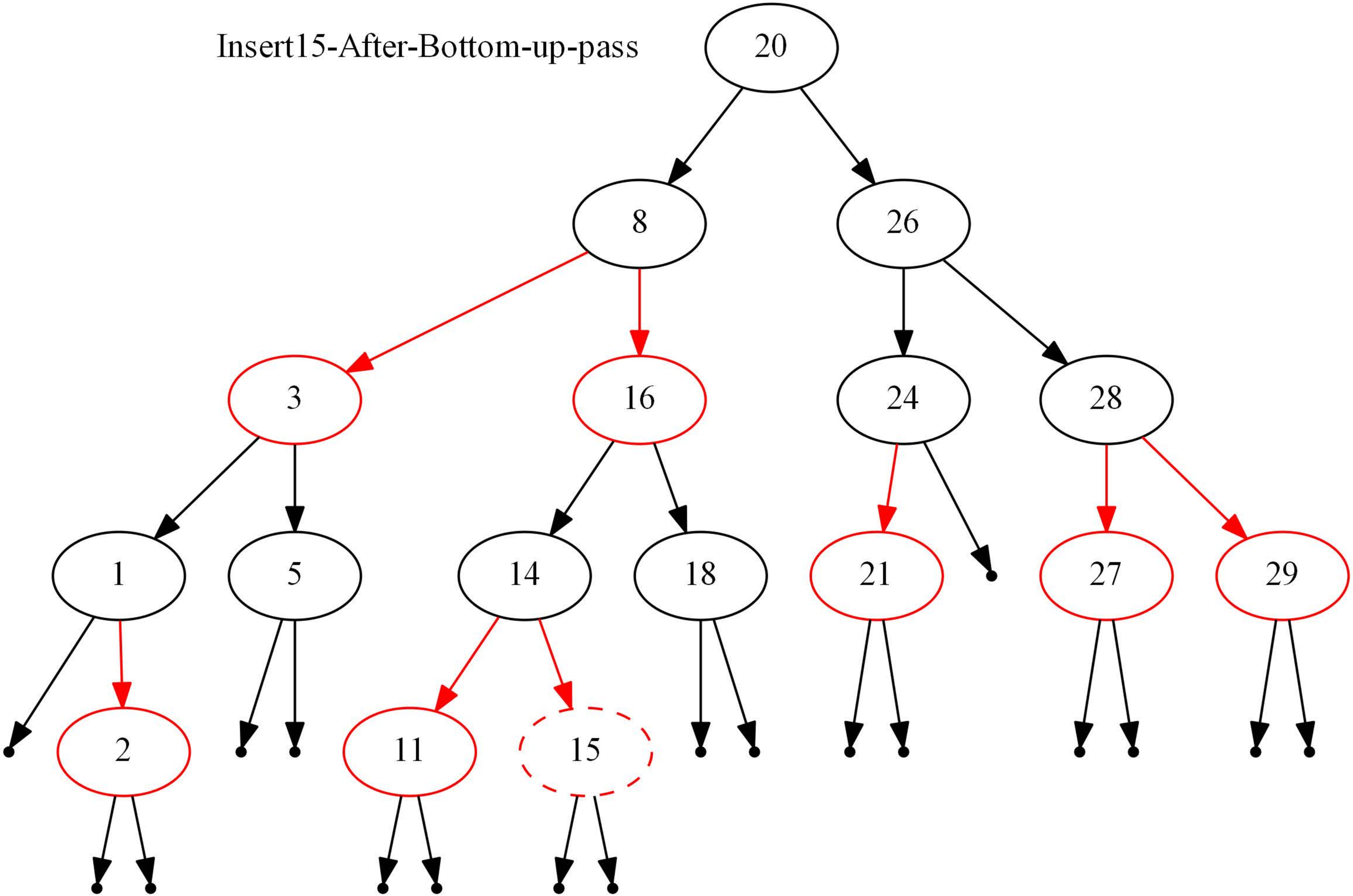
Parent is Black. Terminate buttom-up pass.




Insert15-After-Bottom-up-pass
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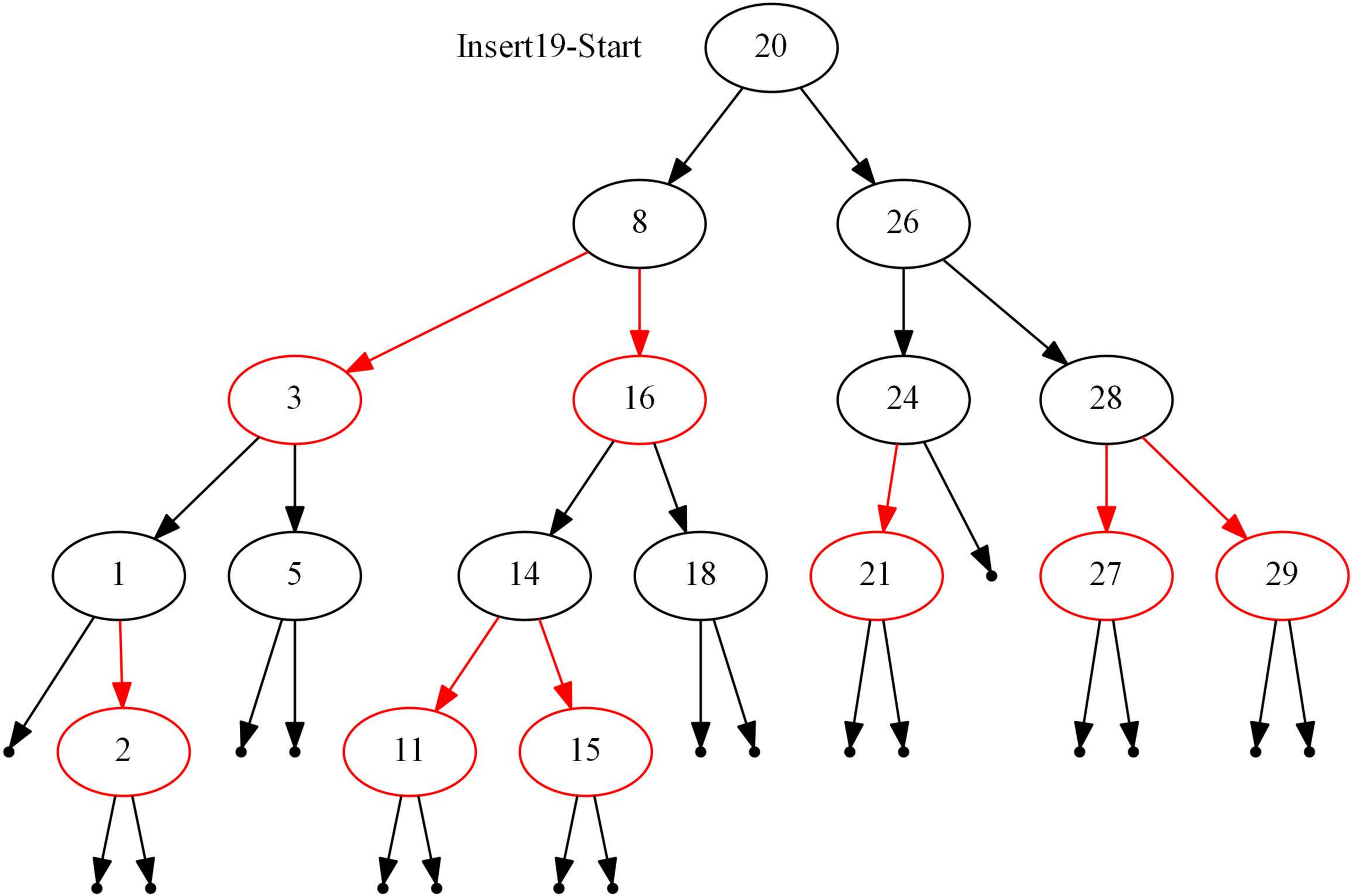
Insert19-Start
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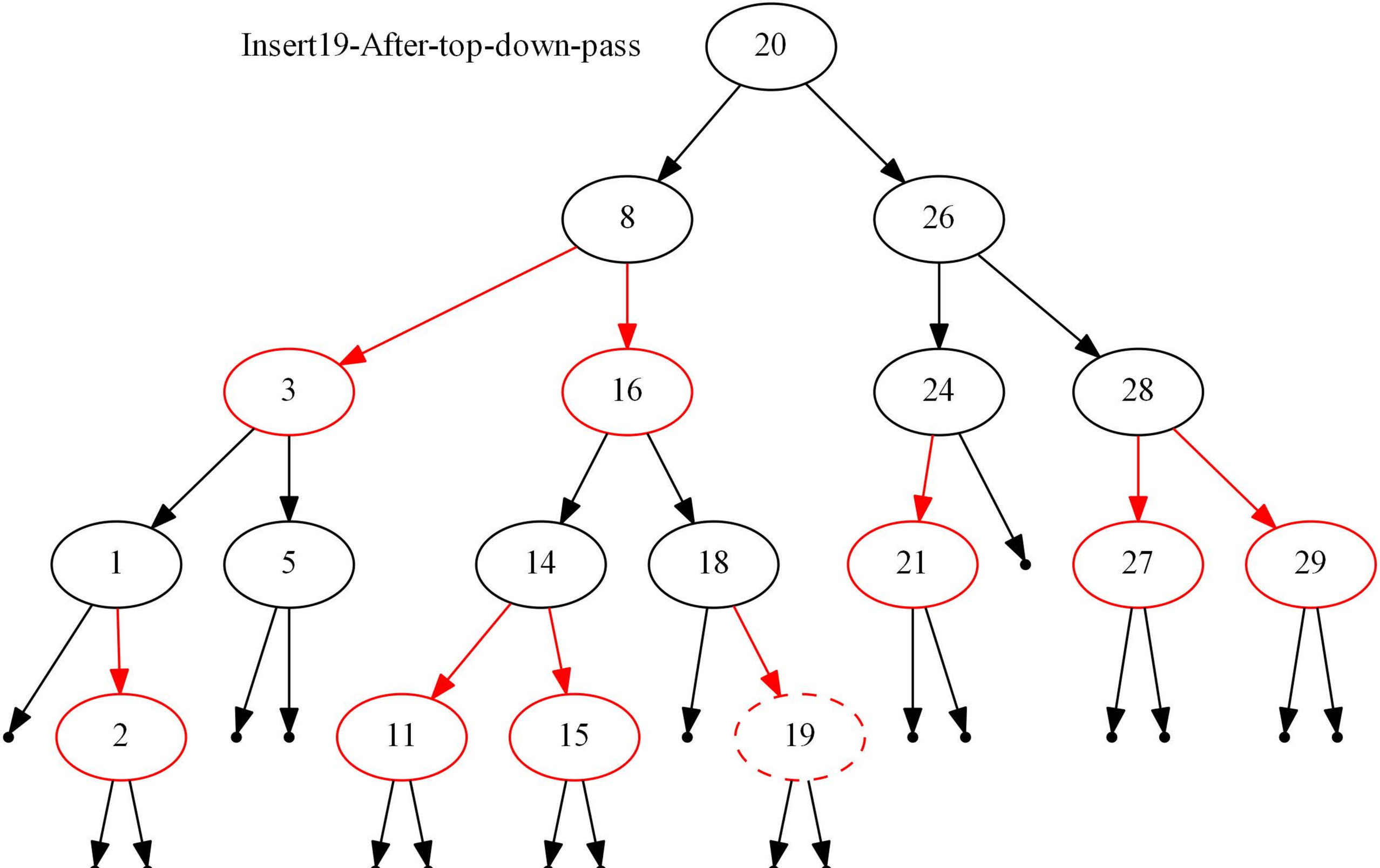
Insert19-After-top-down-pass
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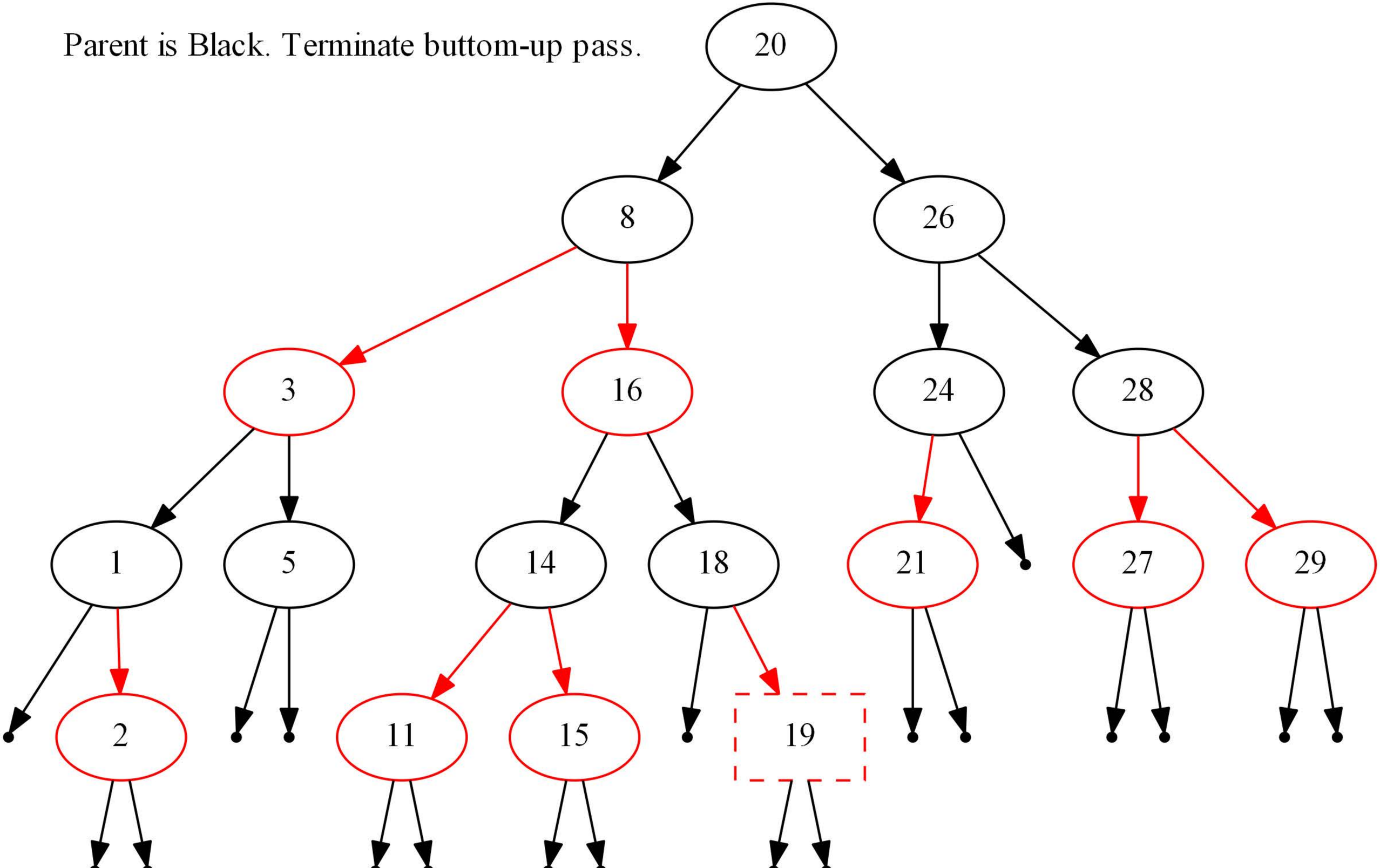
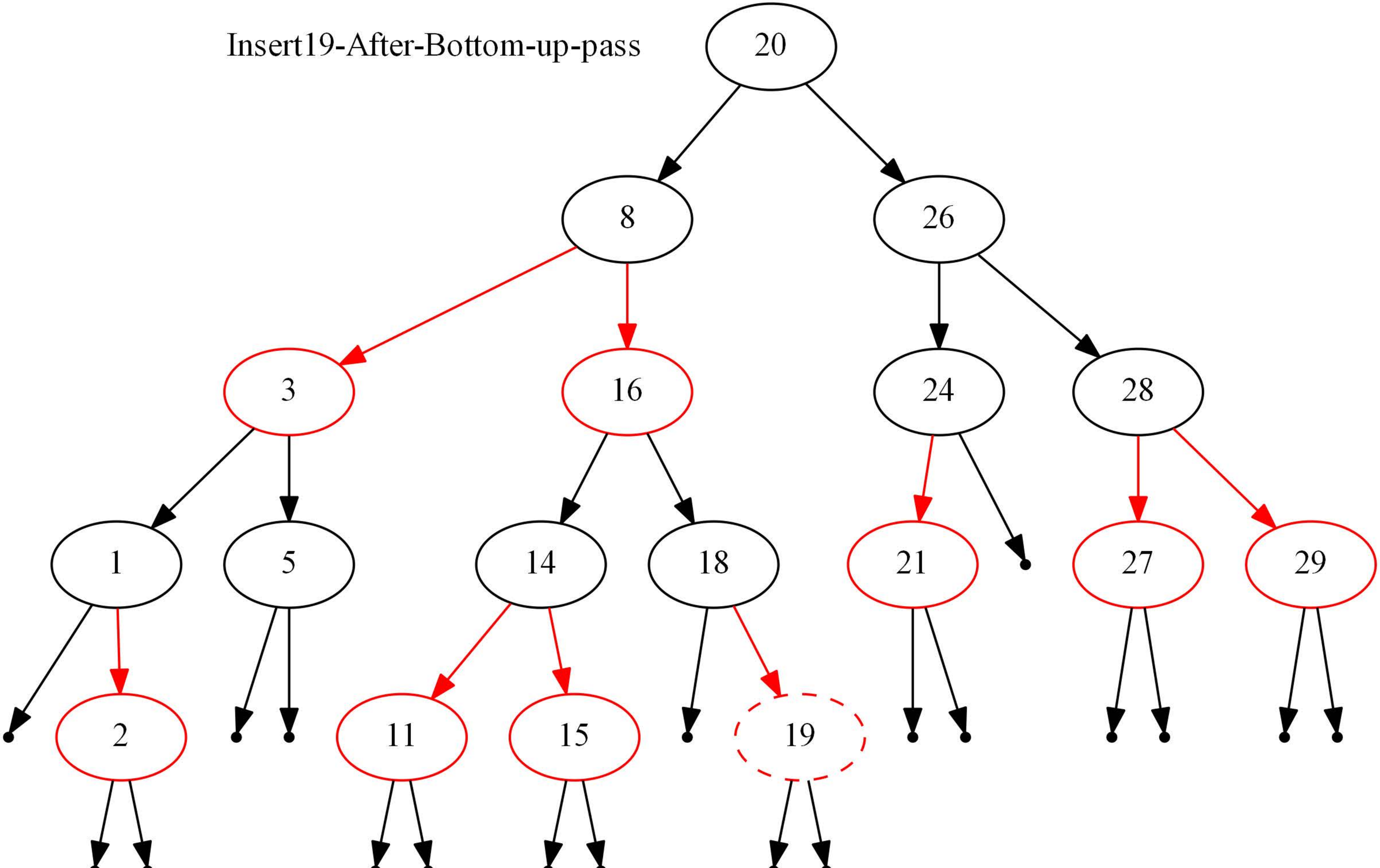
Parent is Black. Terminate buttom-up pass.




Insert19-After-Bottom-up-pass
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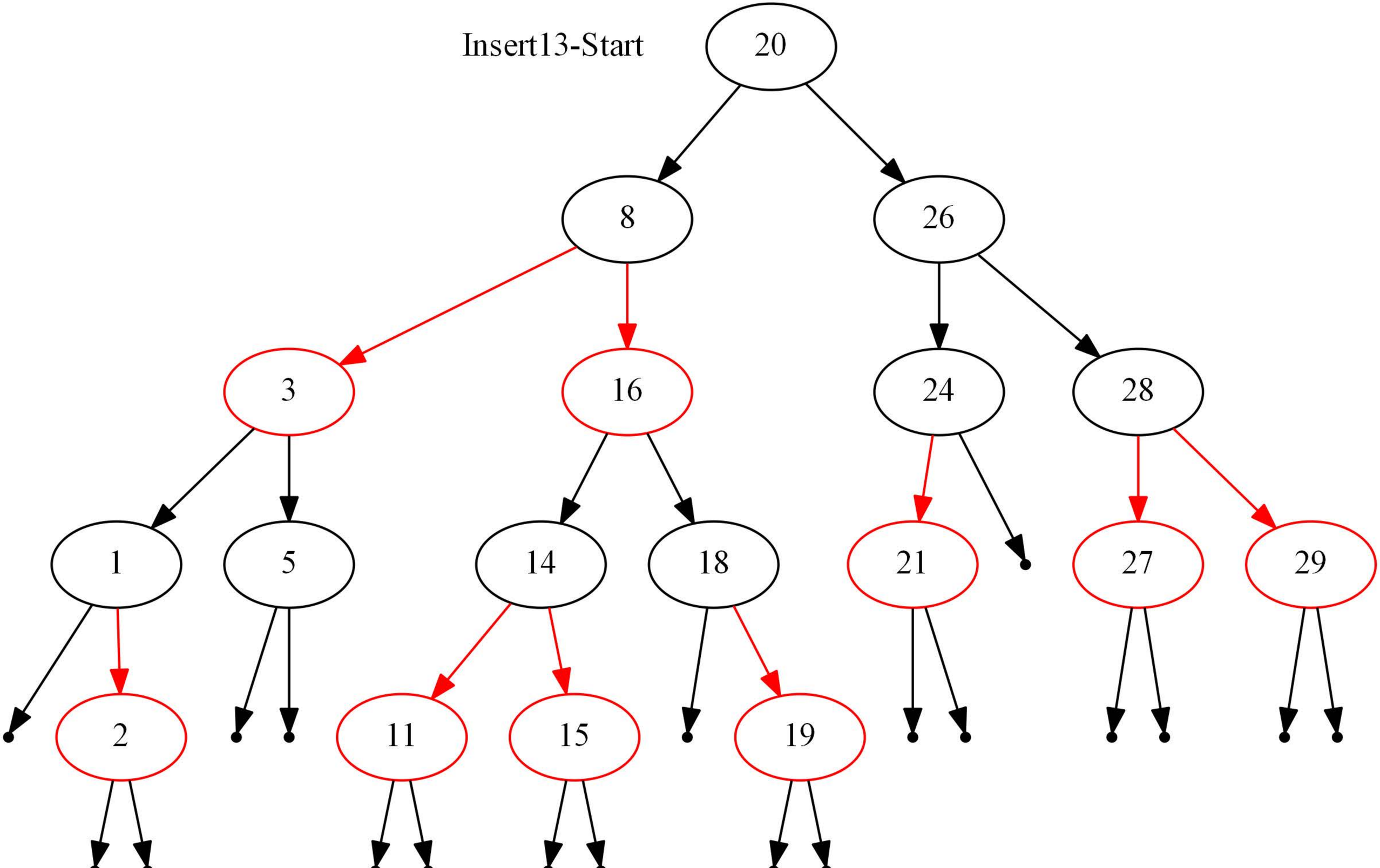
Insert13-Start
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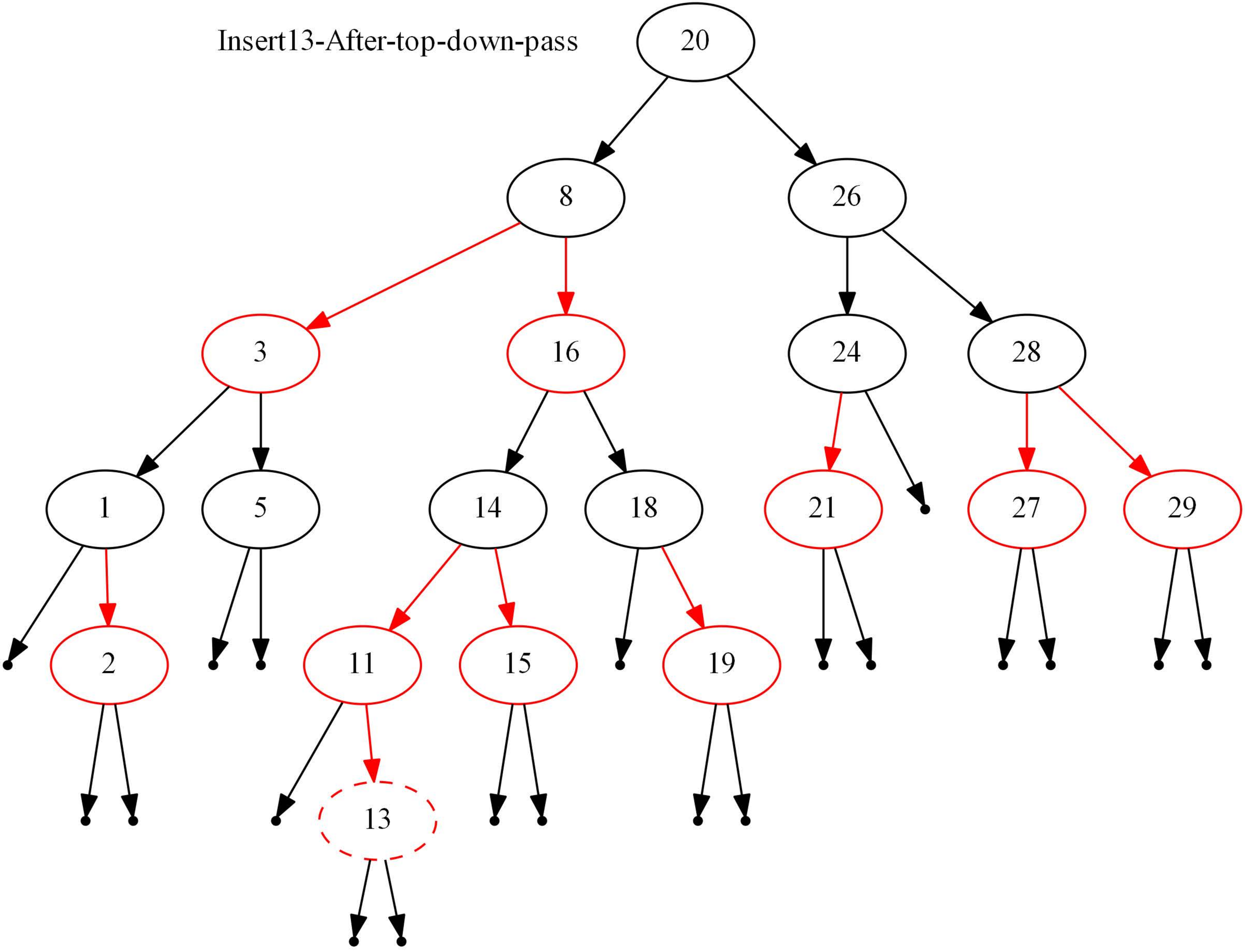
Insert13-After-top-down-pass
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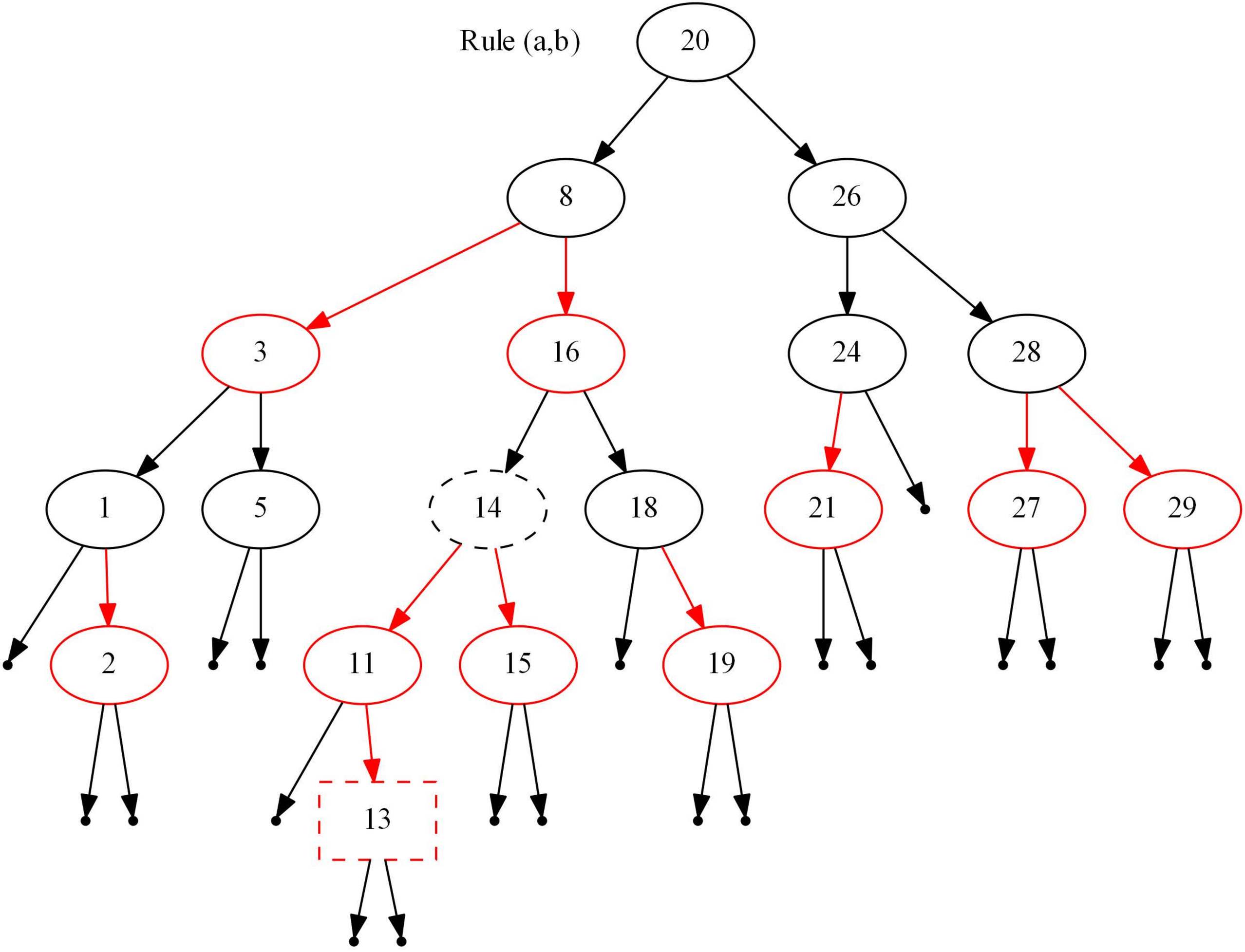
Rule (a,b)
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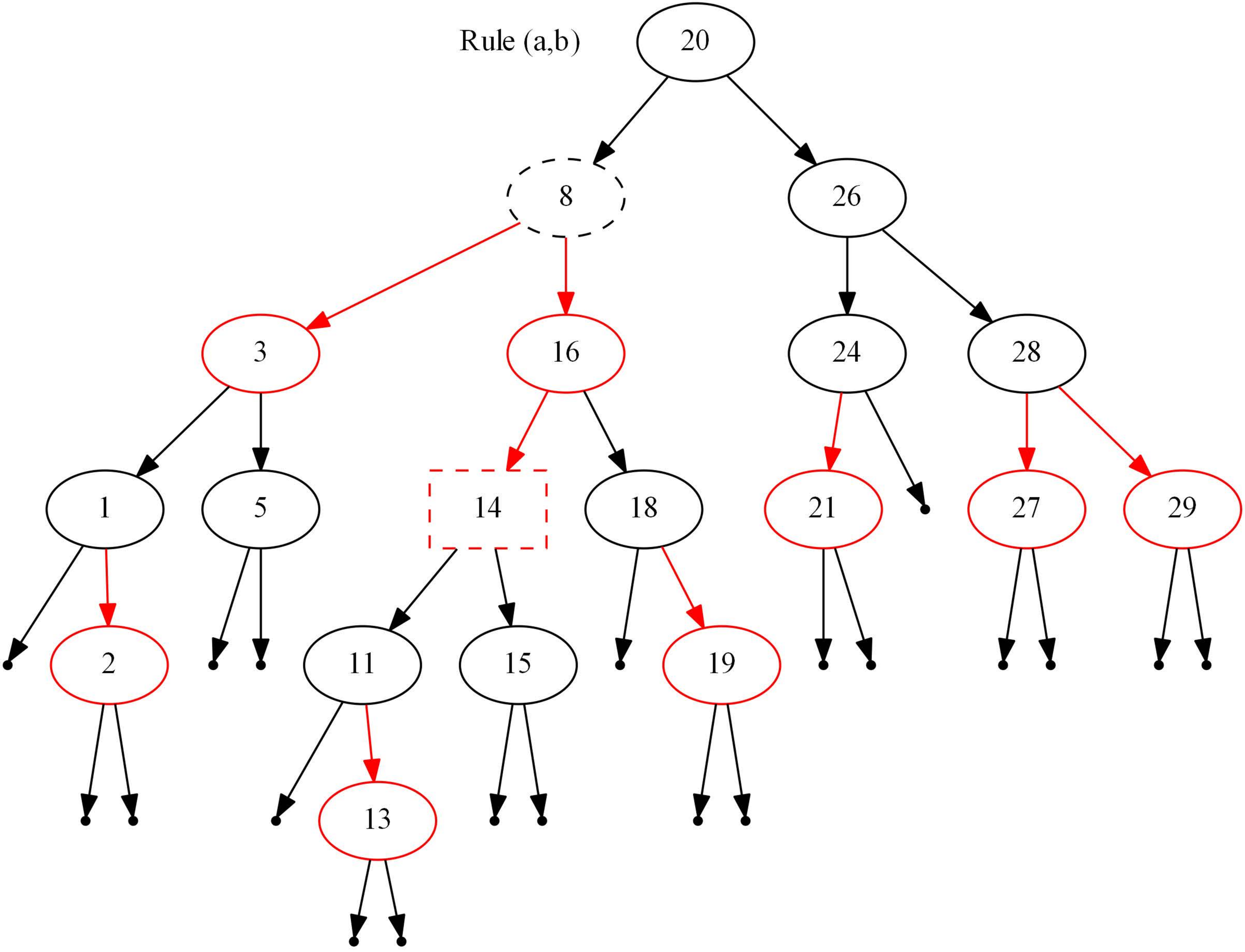
Rule (a,b)
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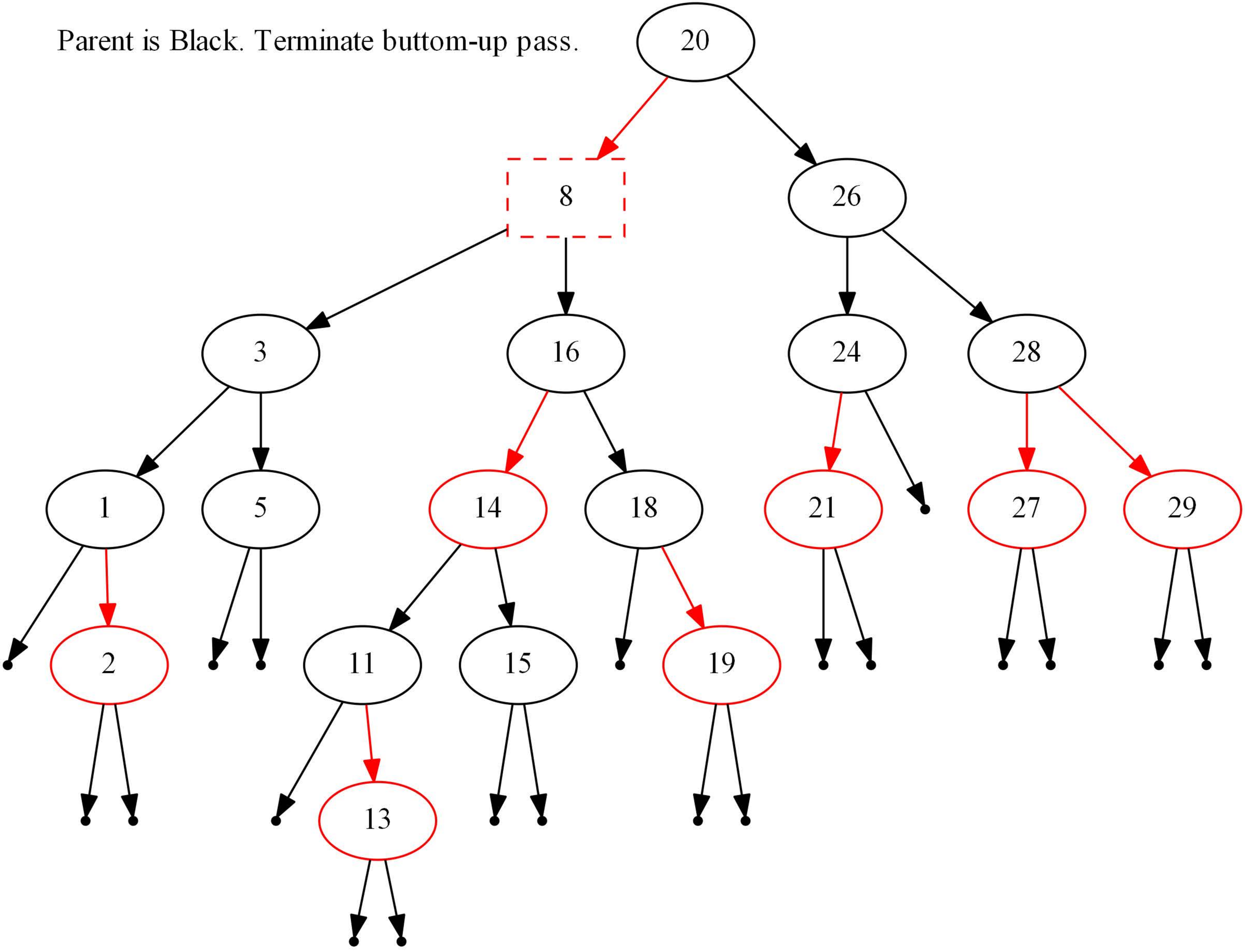
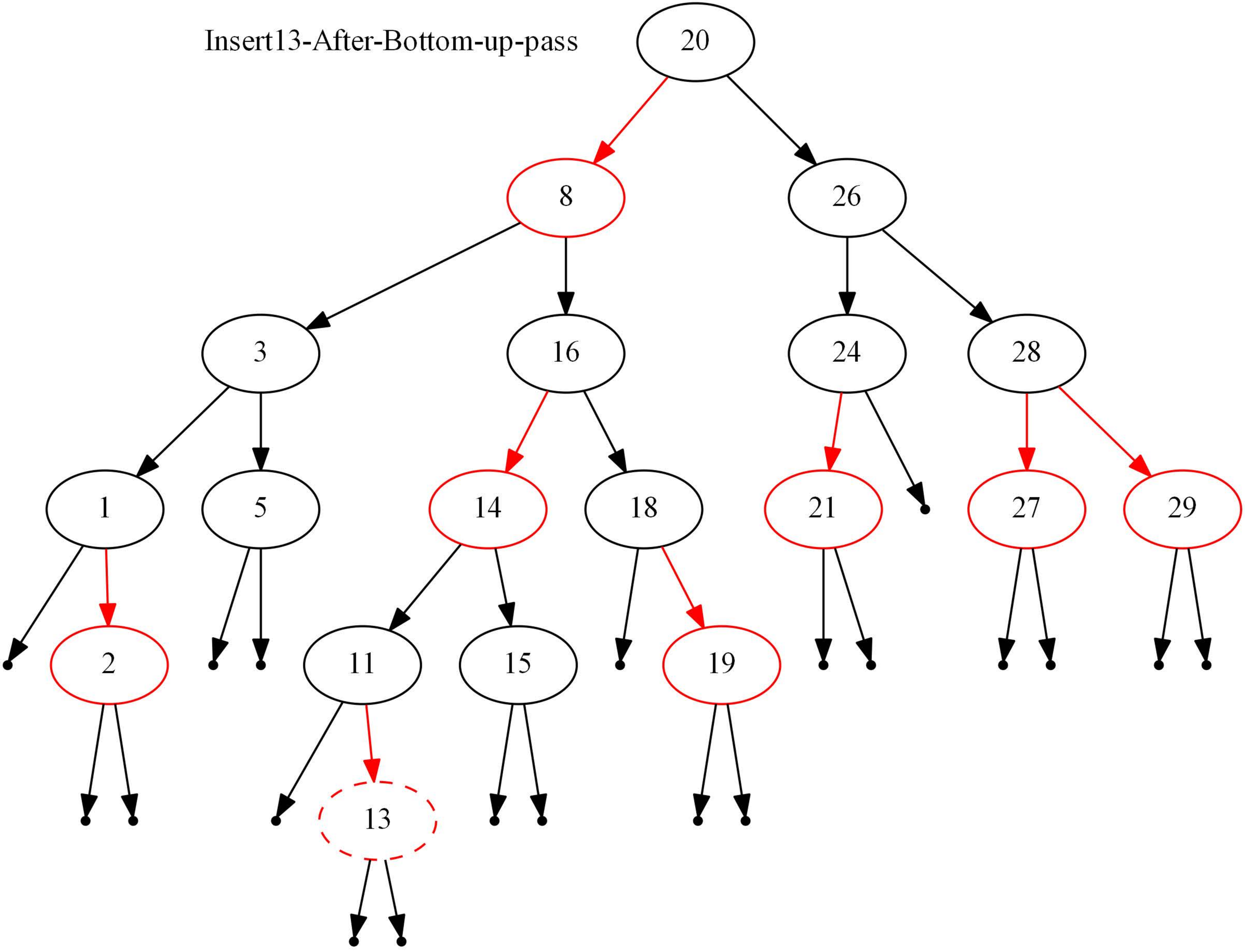
Parent is Black. Terminate buttom-up pass.




Insert13-After-Bottom-up-pass
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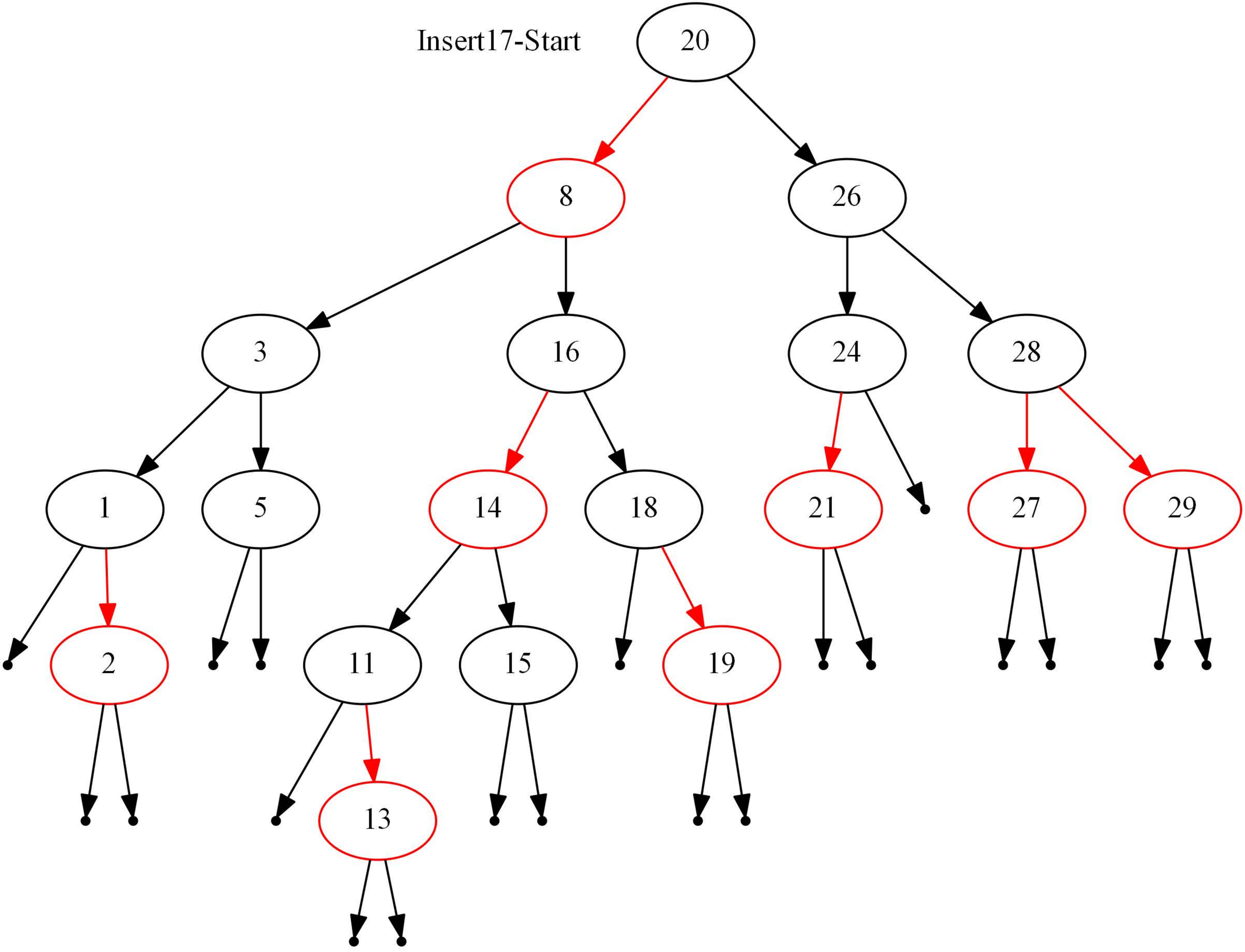
Insert17-Start
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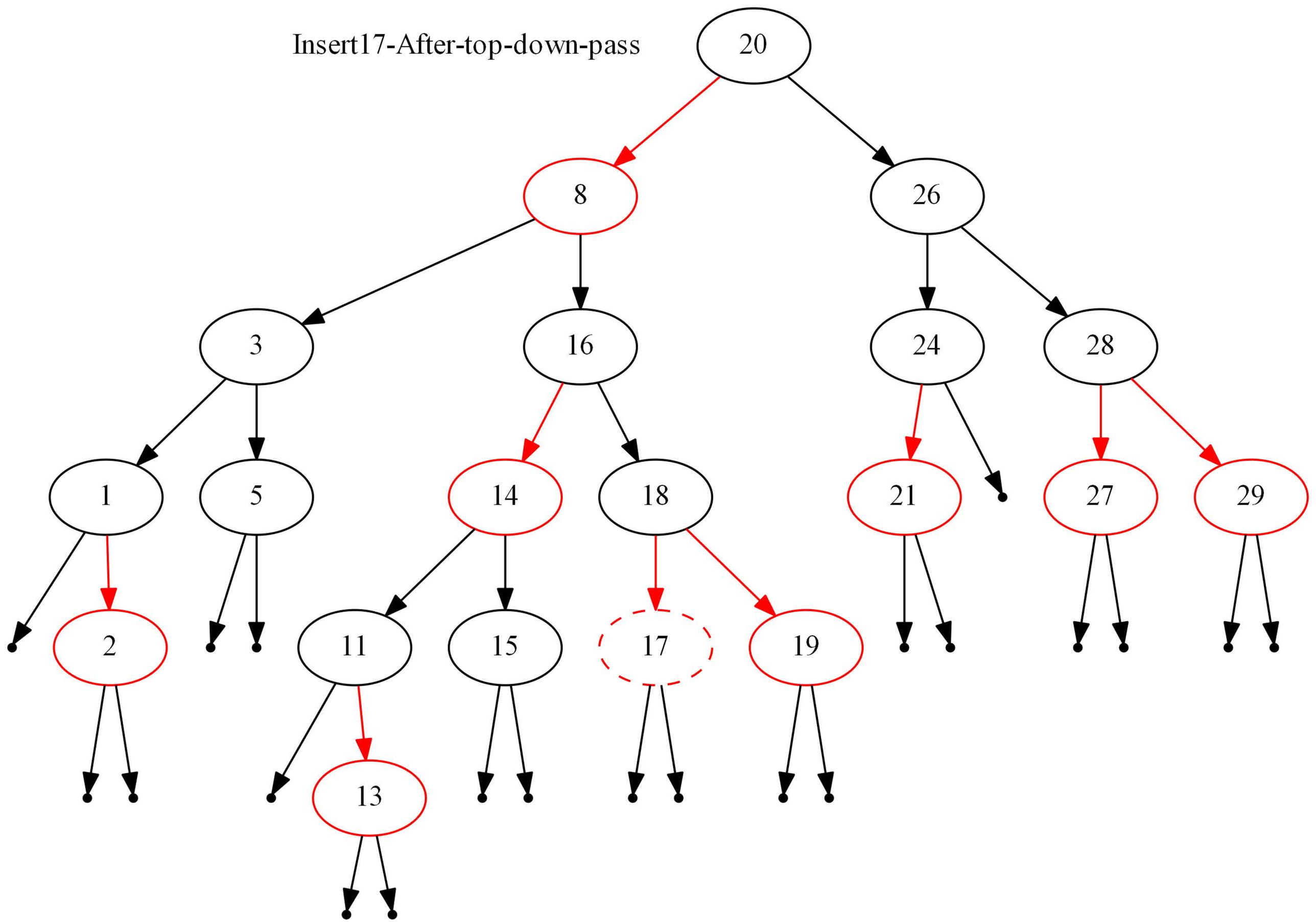
Insert17-After-top-down-pass
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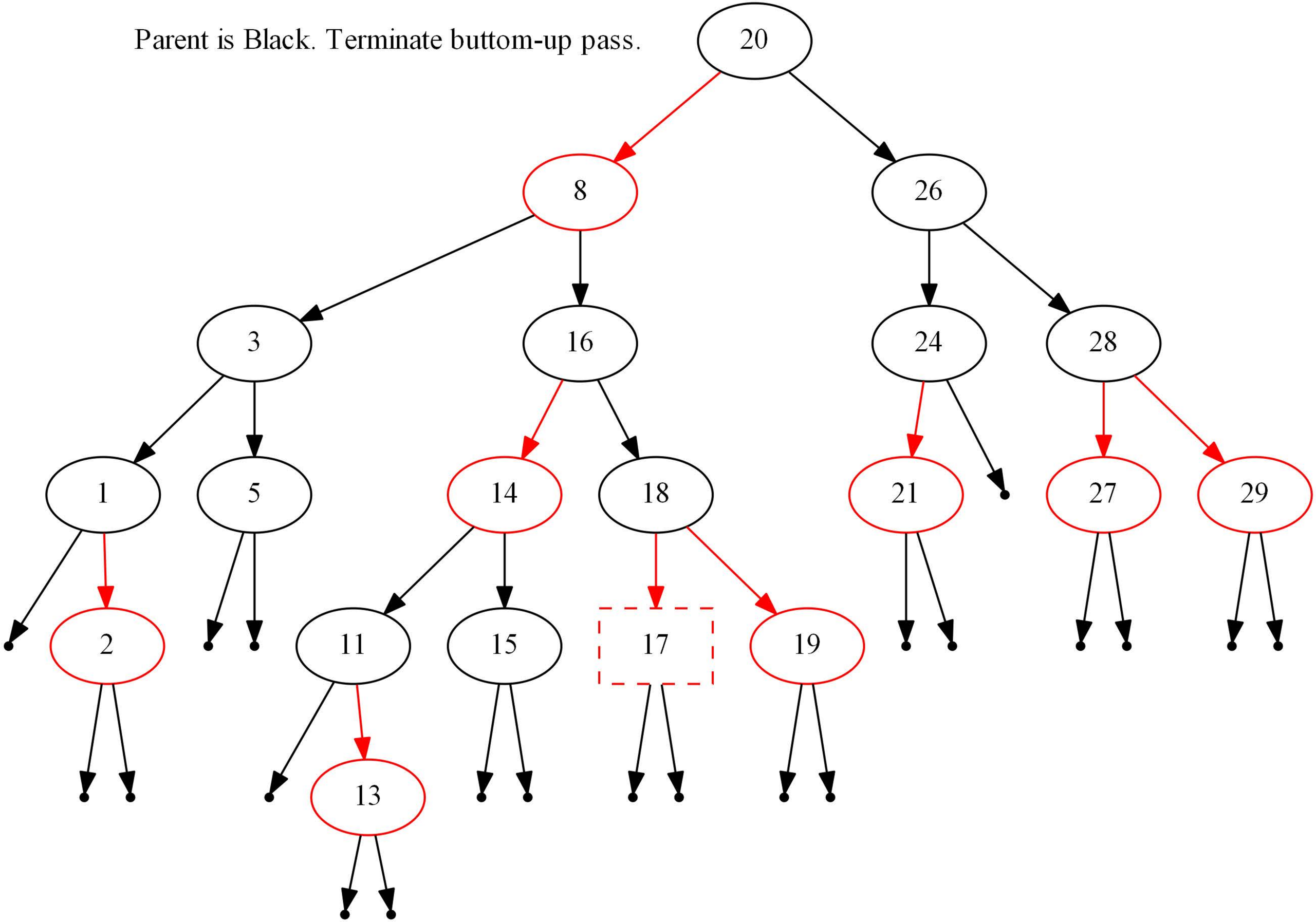
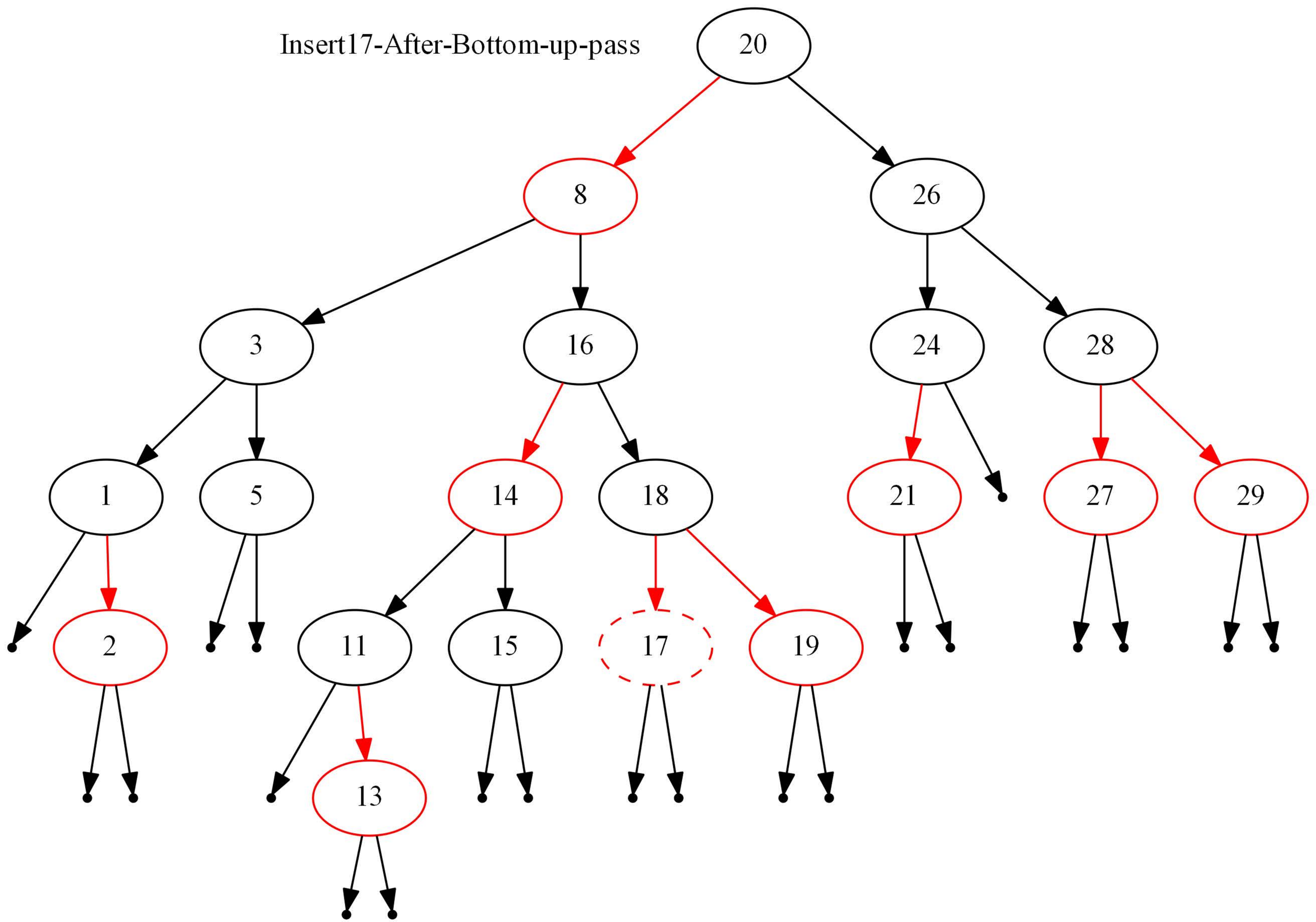
Parent is Black. Terminate buttom-up pass.




Insert17-After-Bottom-up-pass
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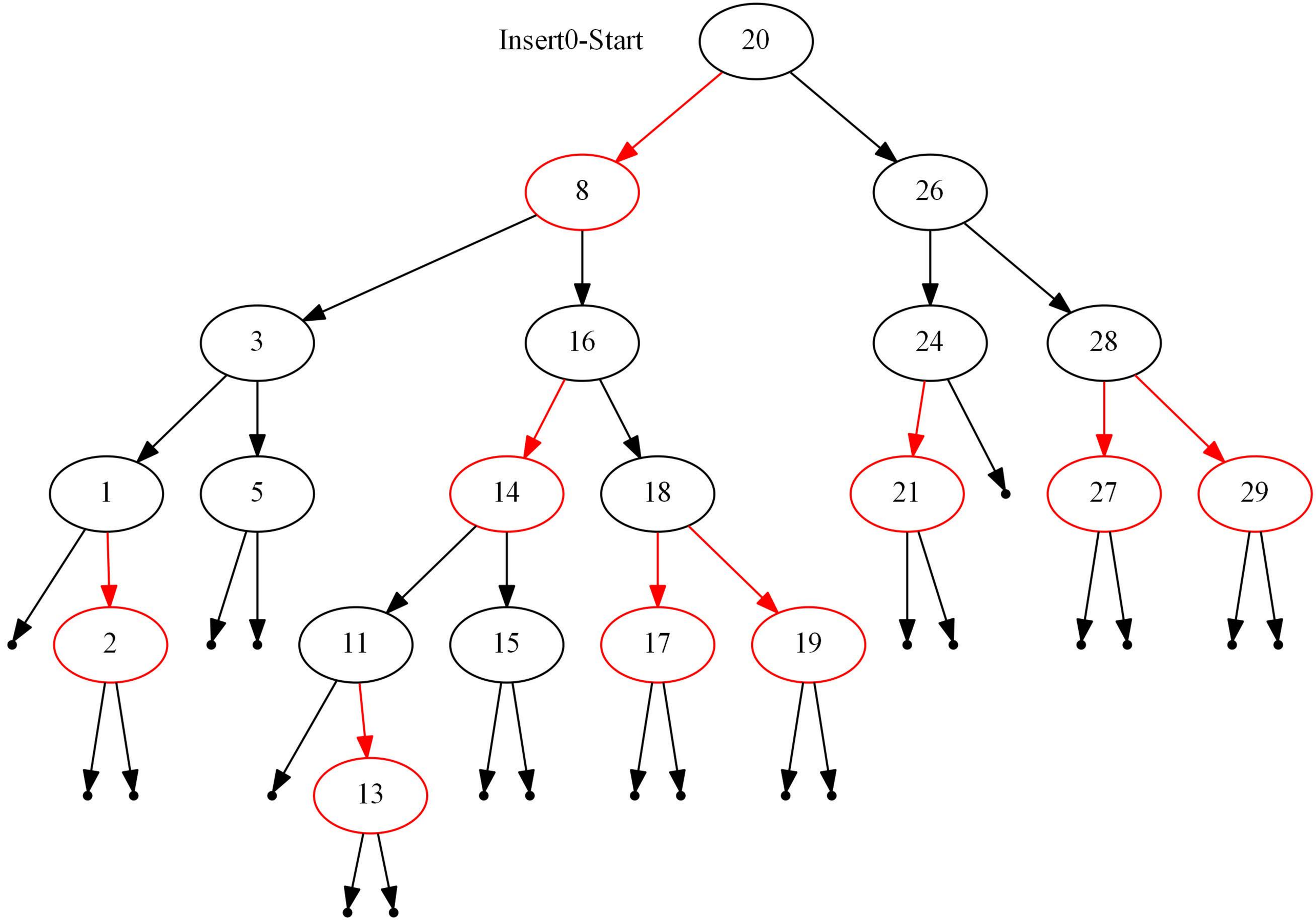
Insert0-Start
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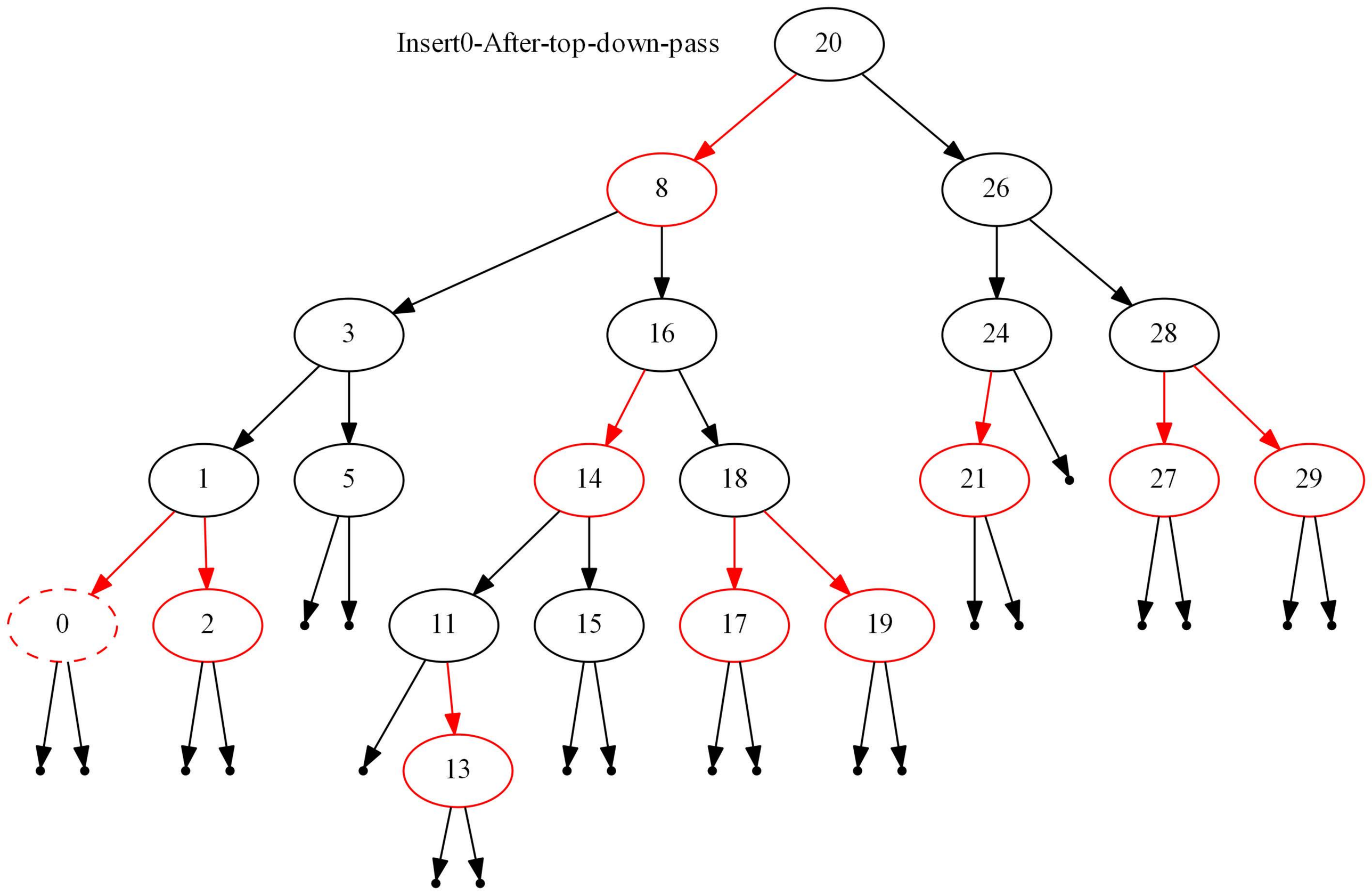
Insert0-After-top-down-pass
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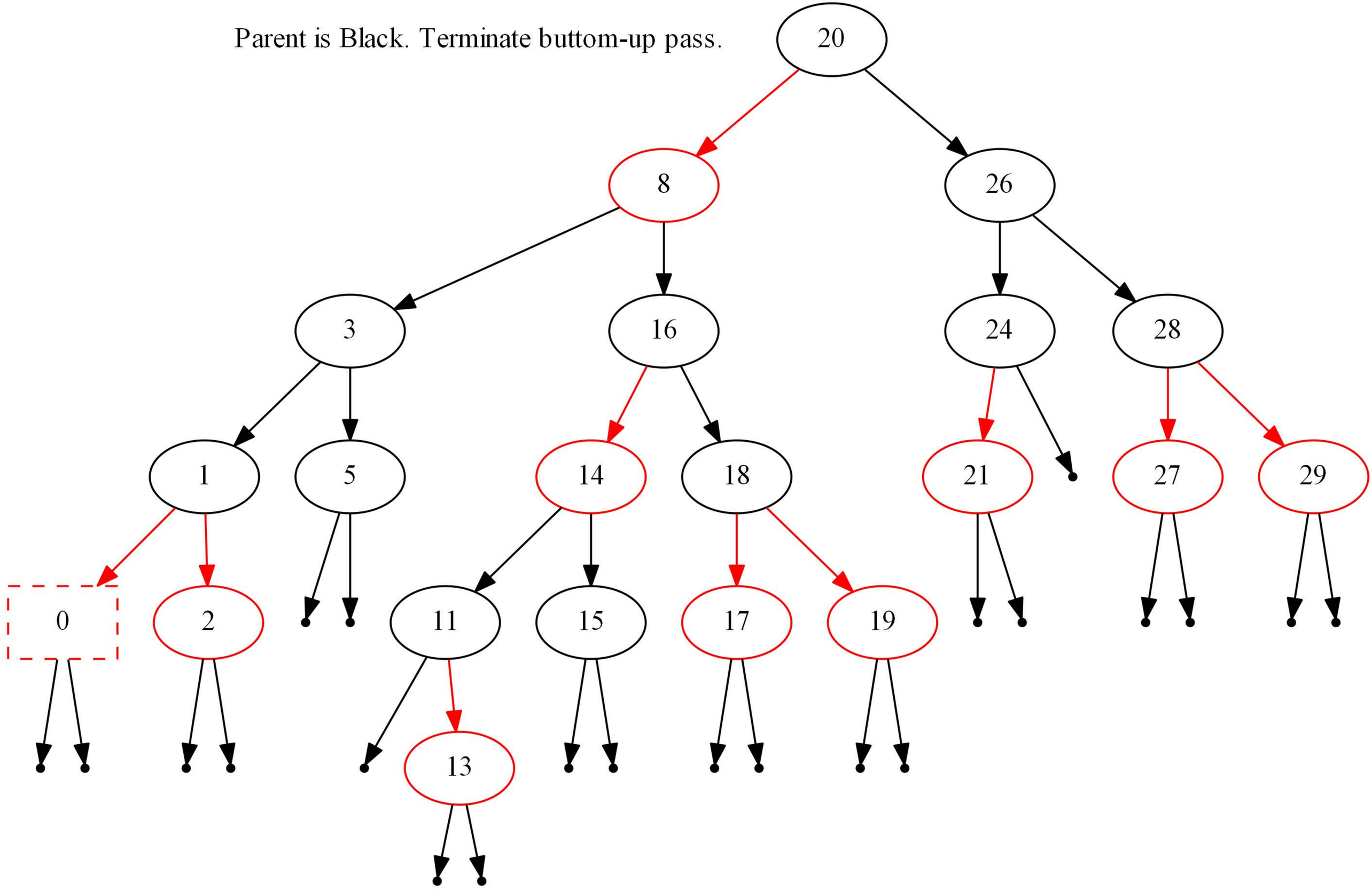
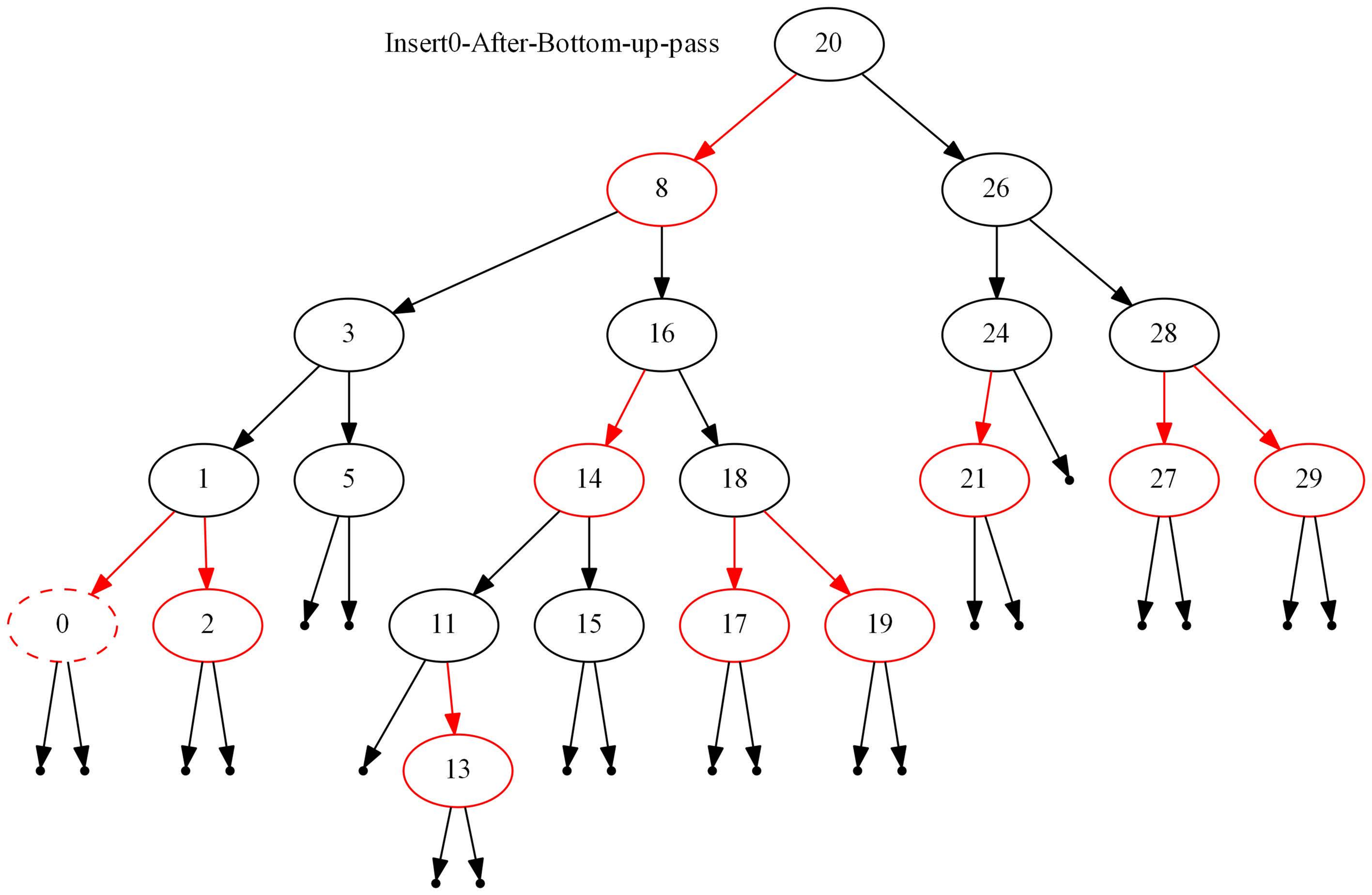
Parent is Black. Terminate buttom-up pass.

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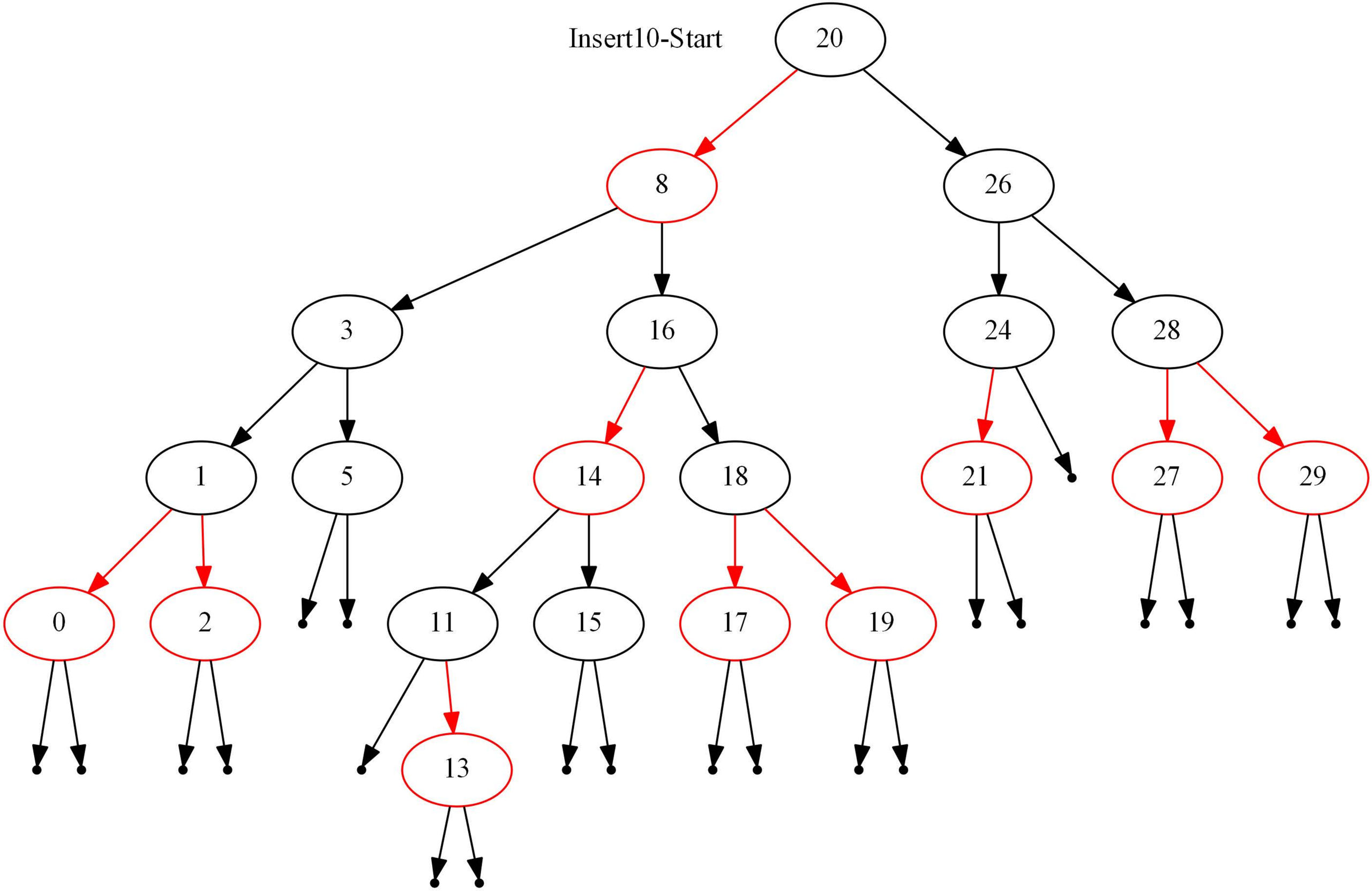
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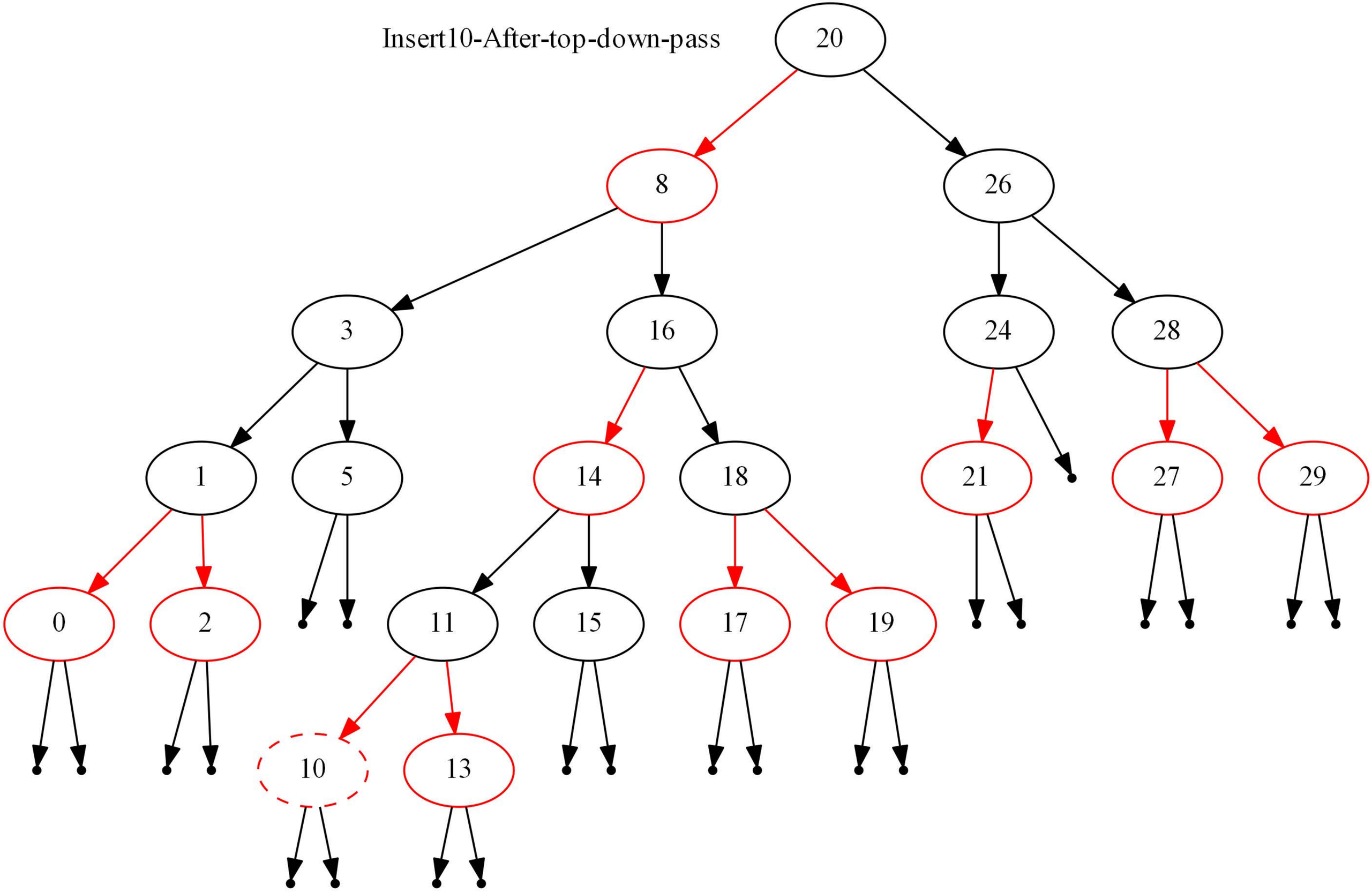
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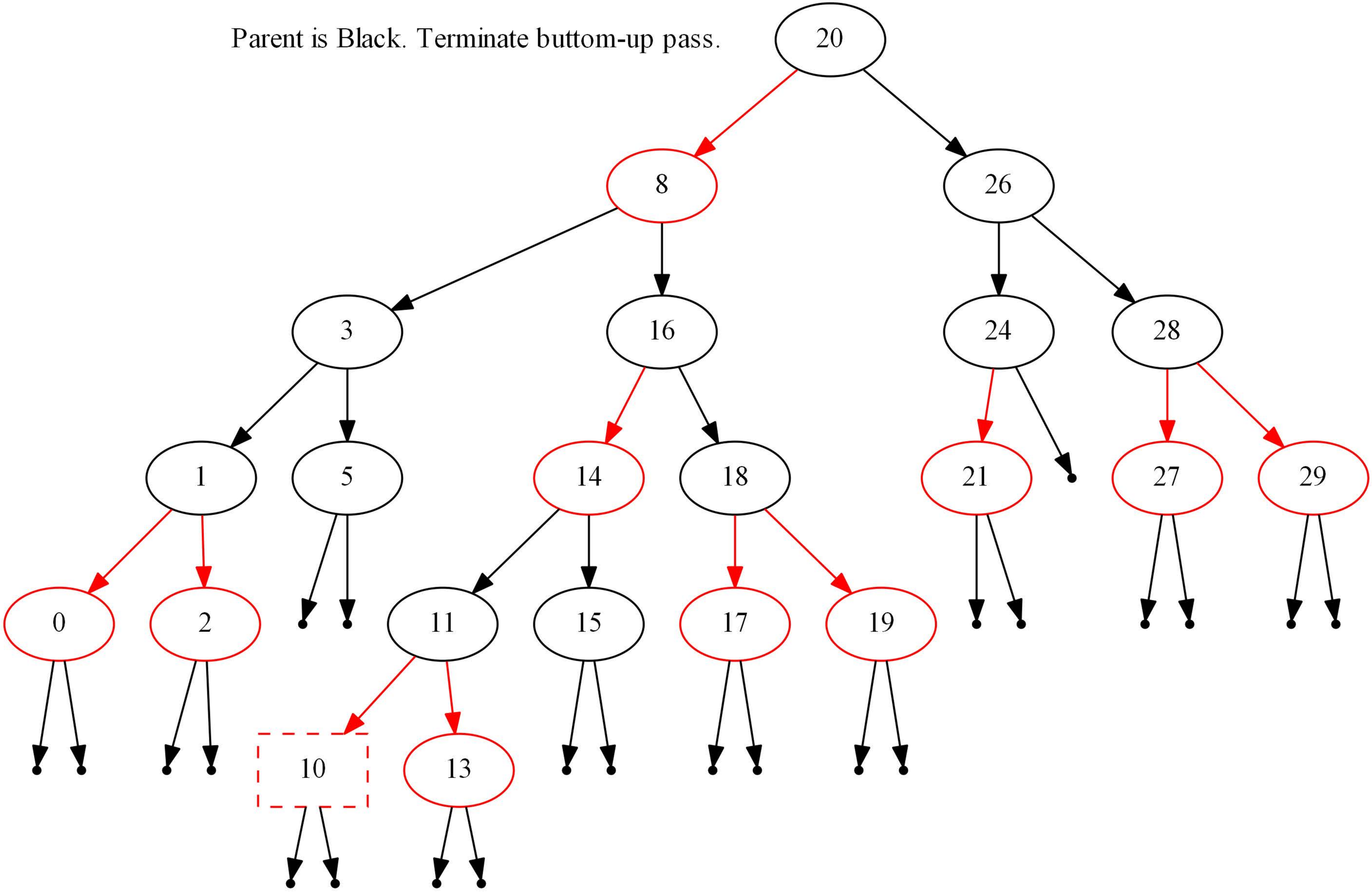
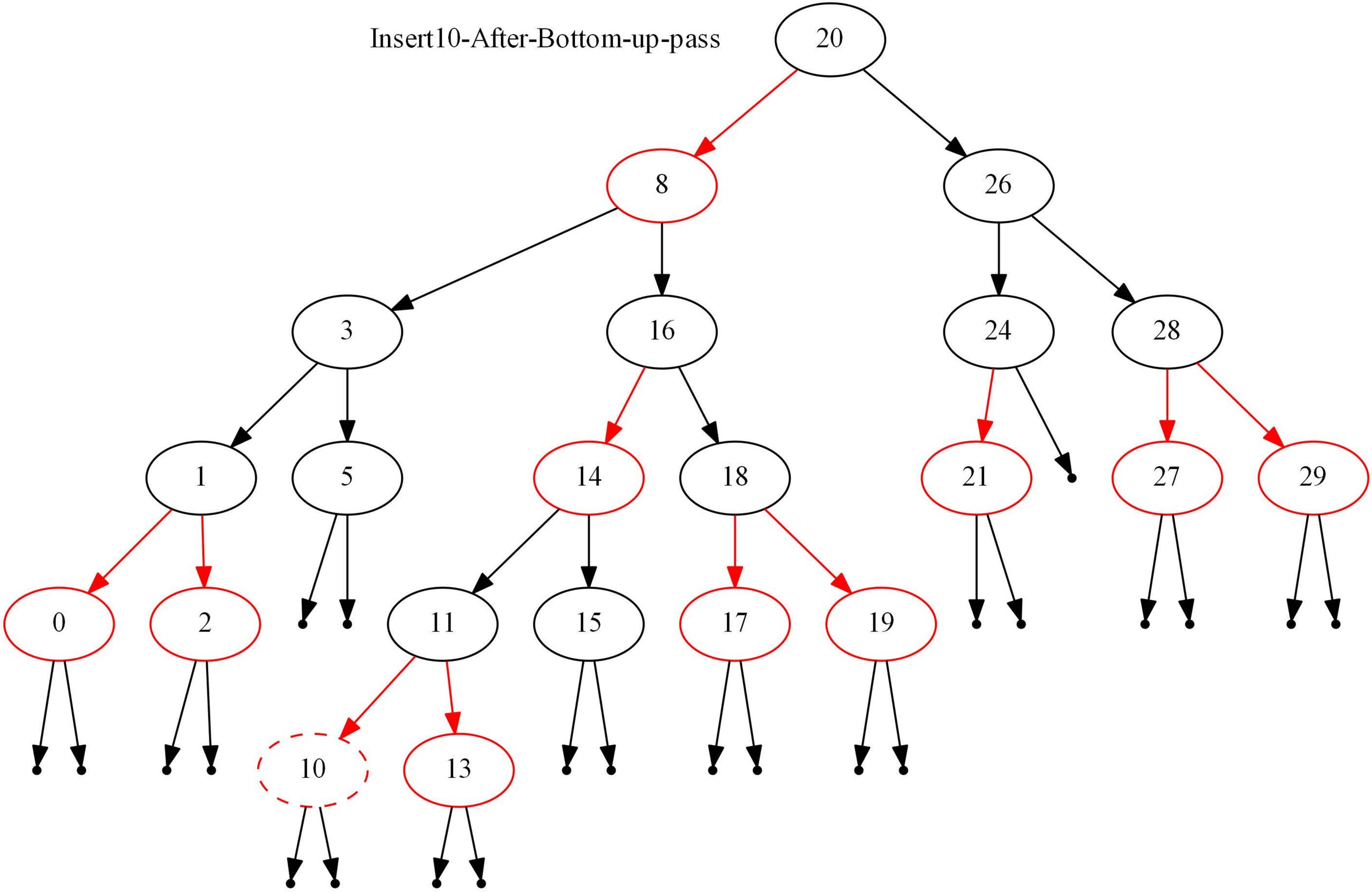
Parent is Black. Terminate buttom-up pass.




Insert10-After-Bottom-up-pass
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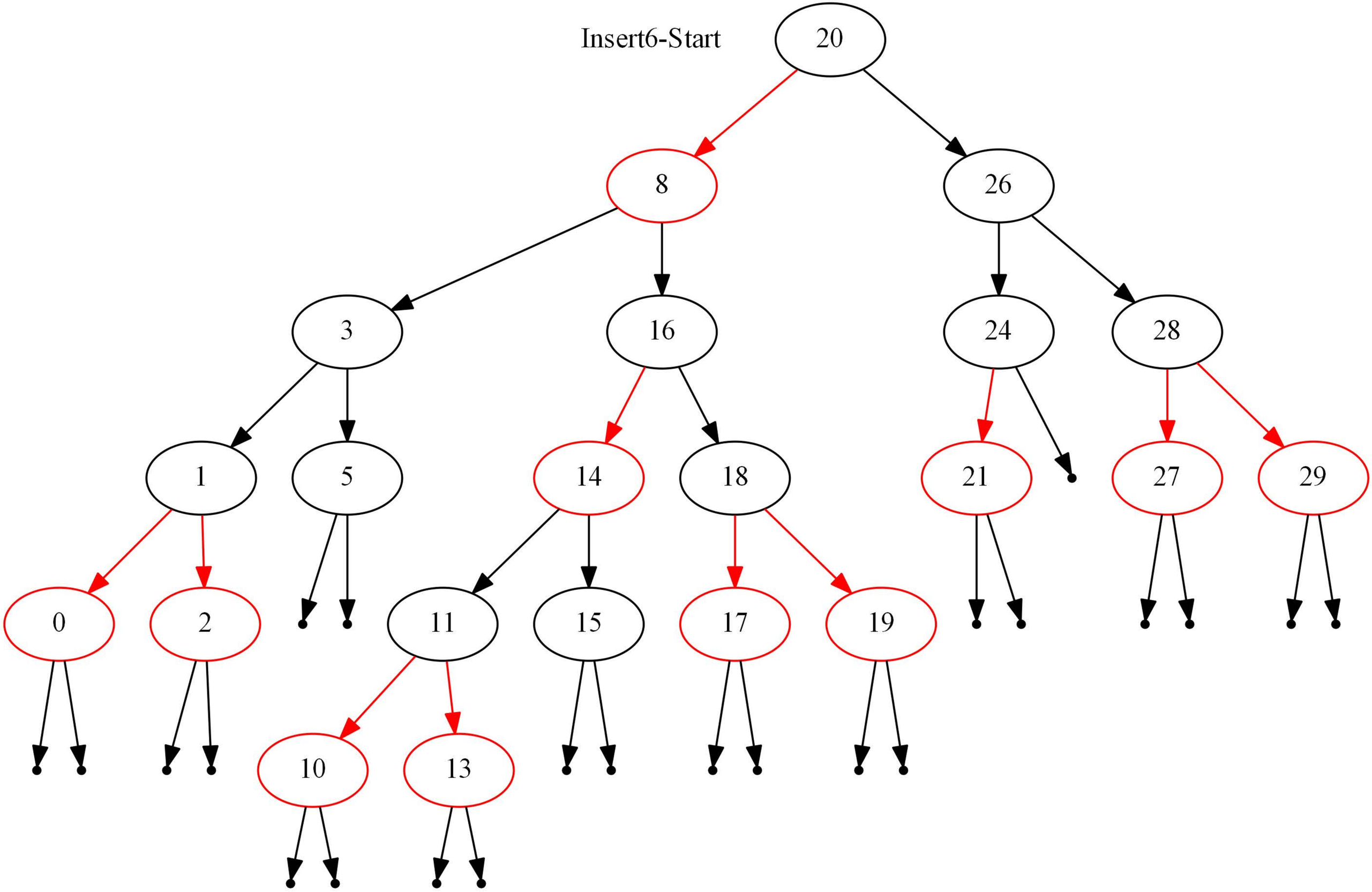
Insert6-Start
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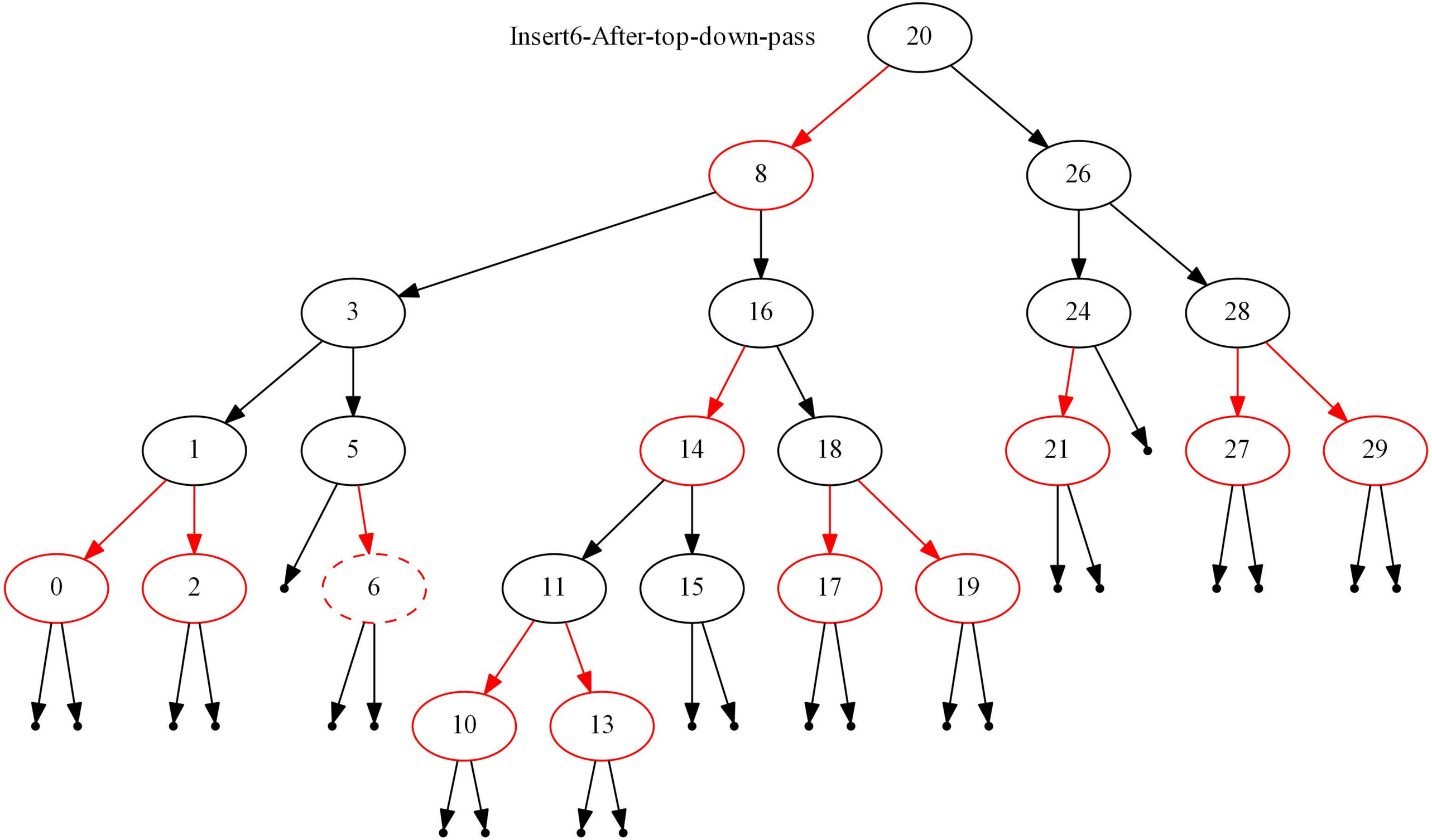
Insert6-After-top-down-pass
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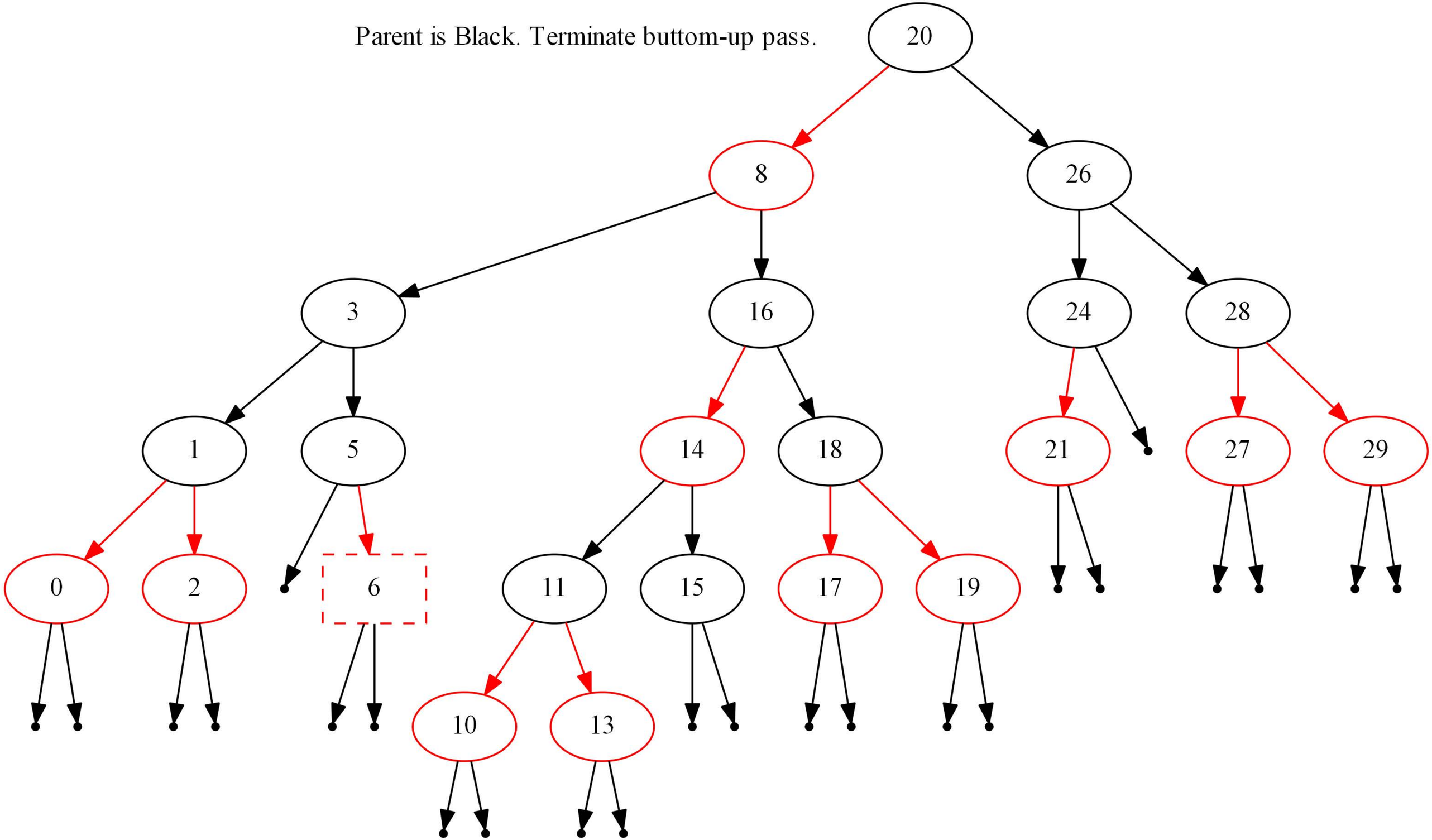
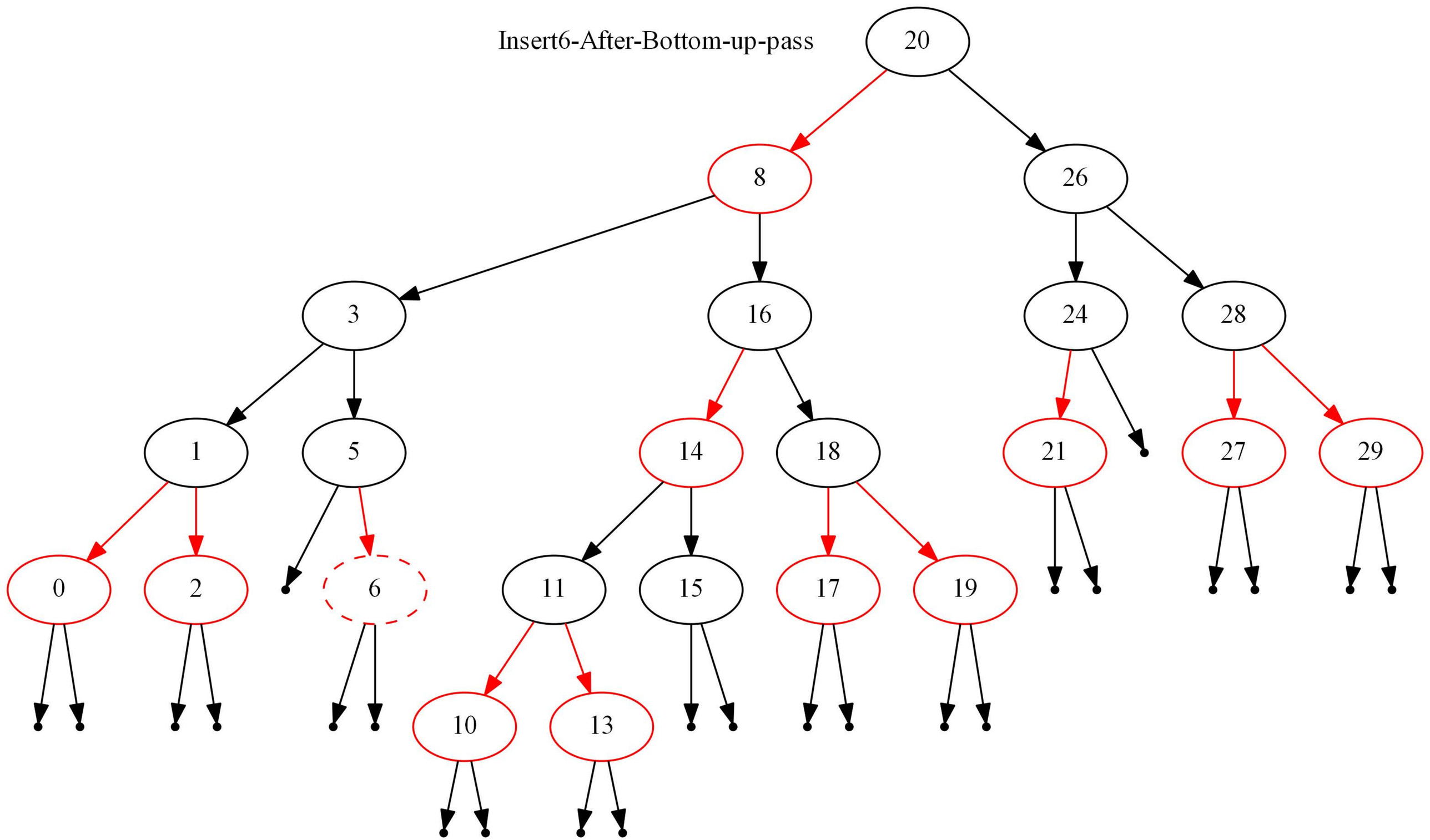
Parent is Black. Terminate buttom-up pass.




Insert6-After-Bottom-up-pass
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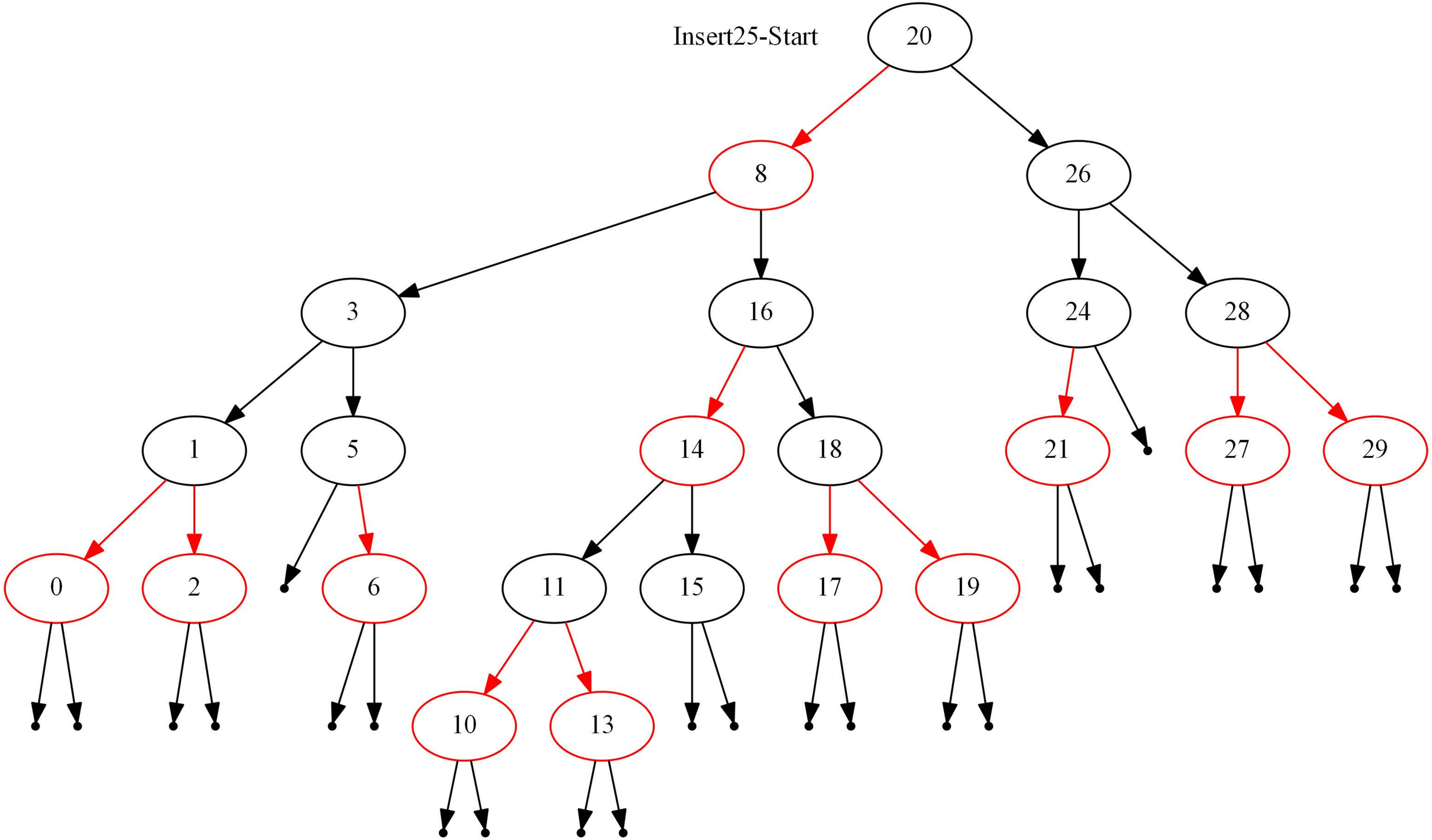
Insert25-Start
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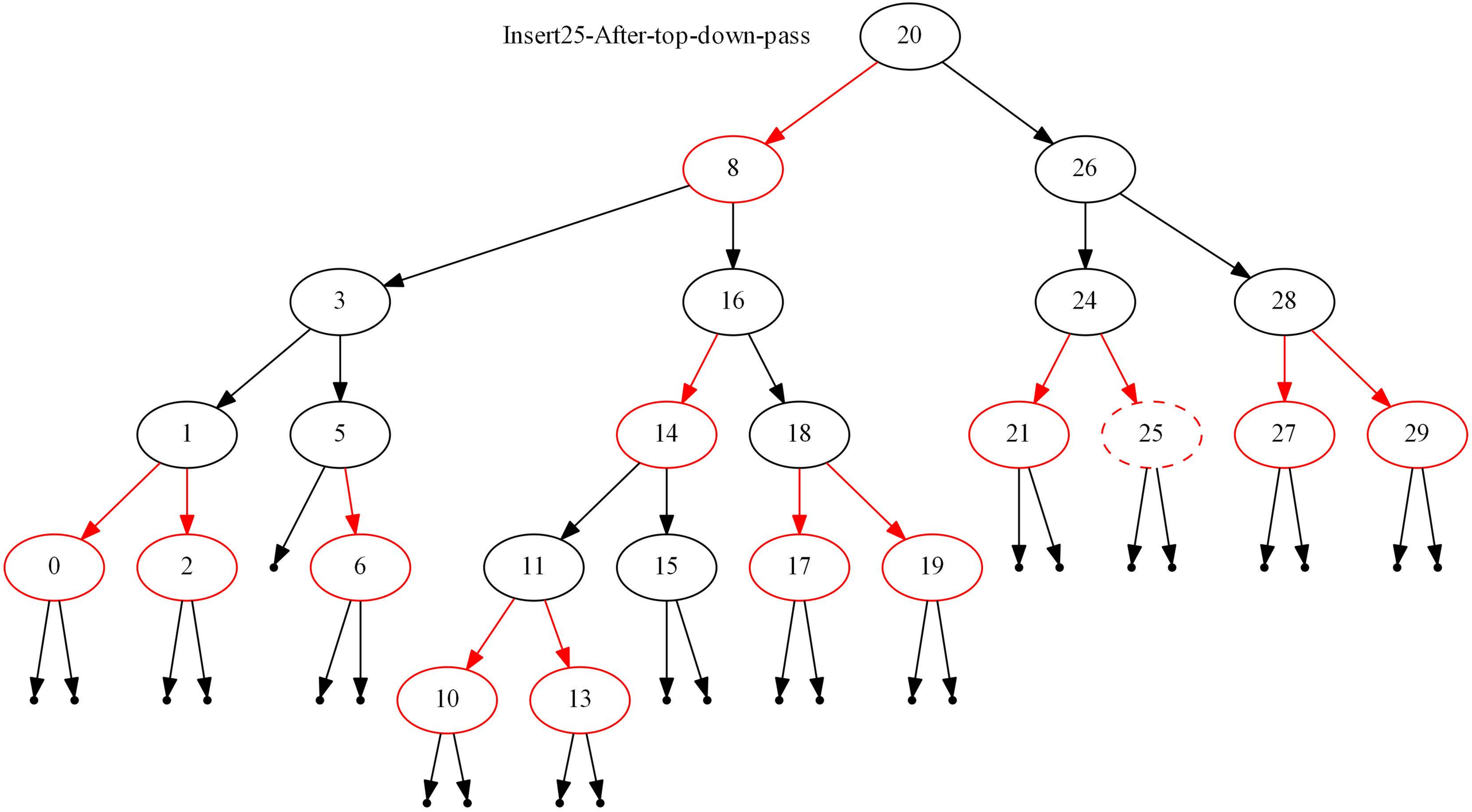
Insert25-After-top-down-pass
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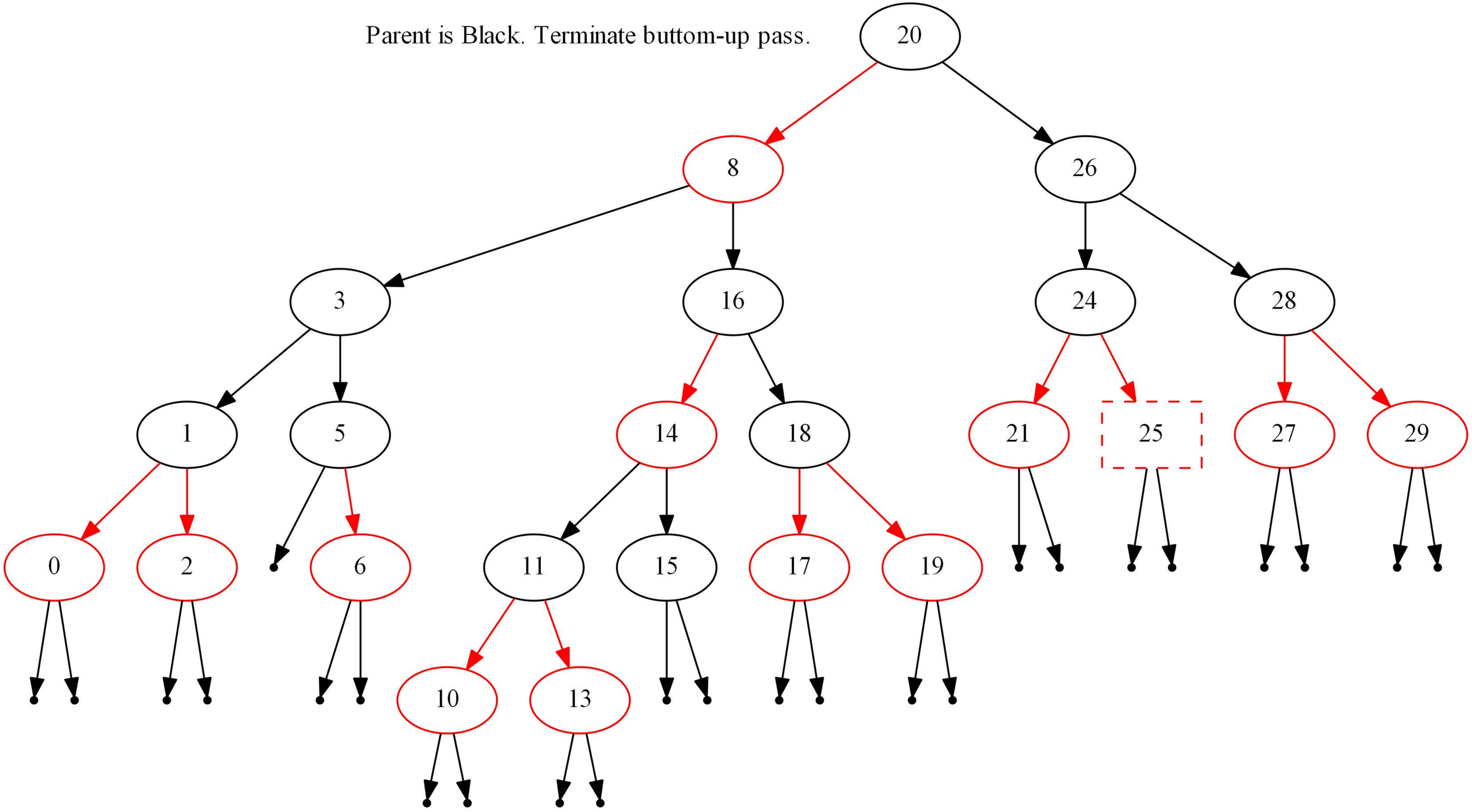
Parent is Black. Terminate buttom-up pass.
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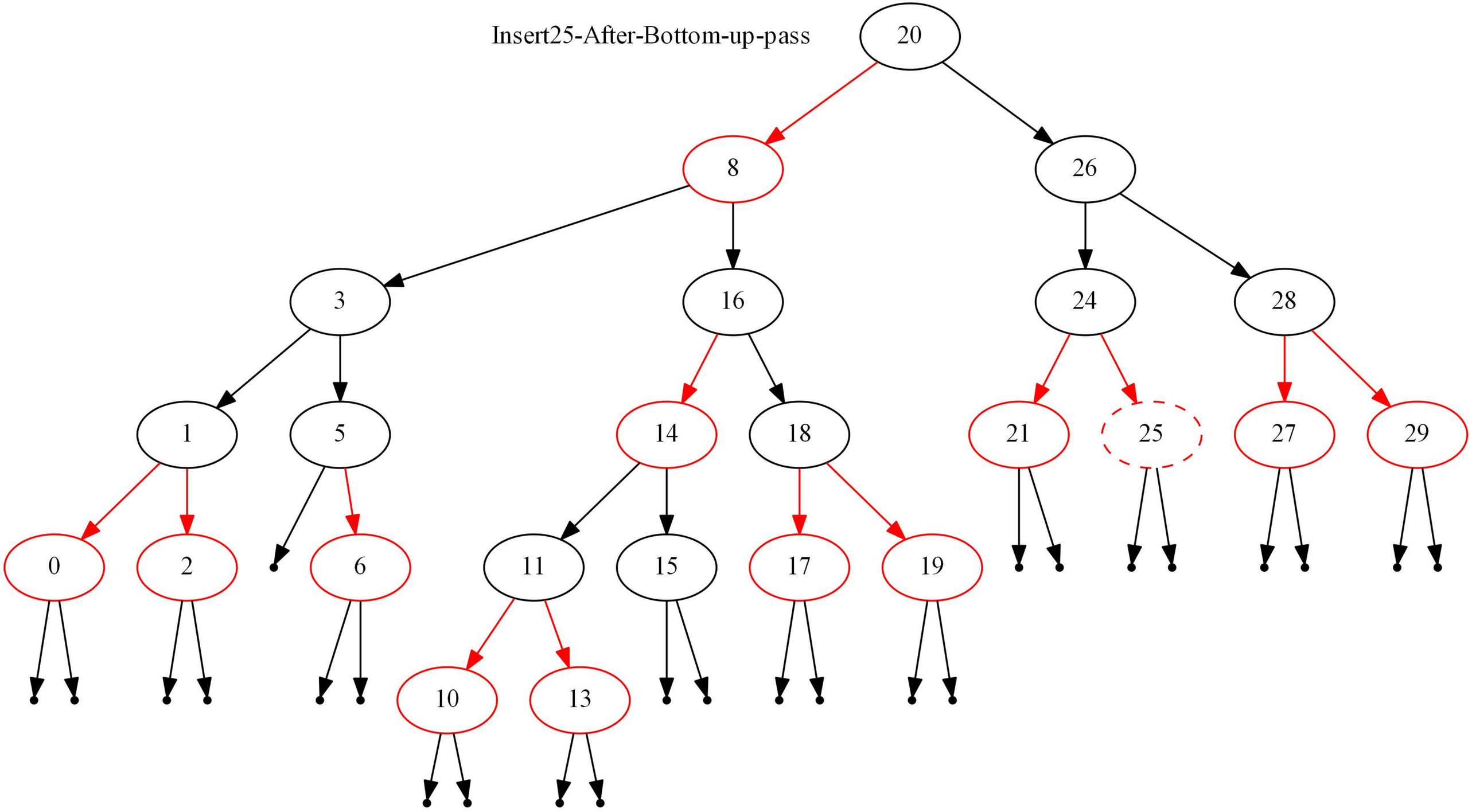
Insert25-After-Bottom-up-pass
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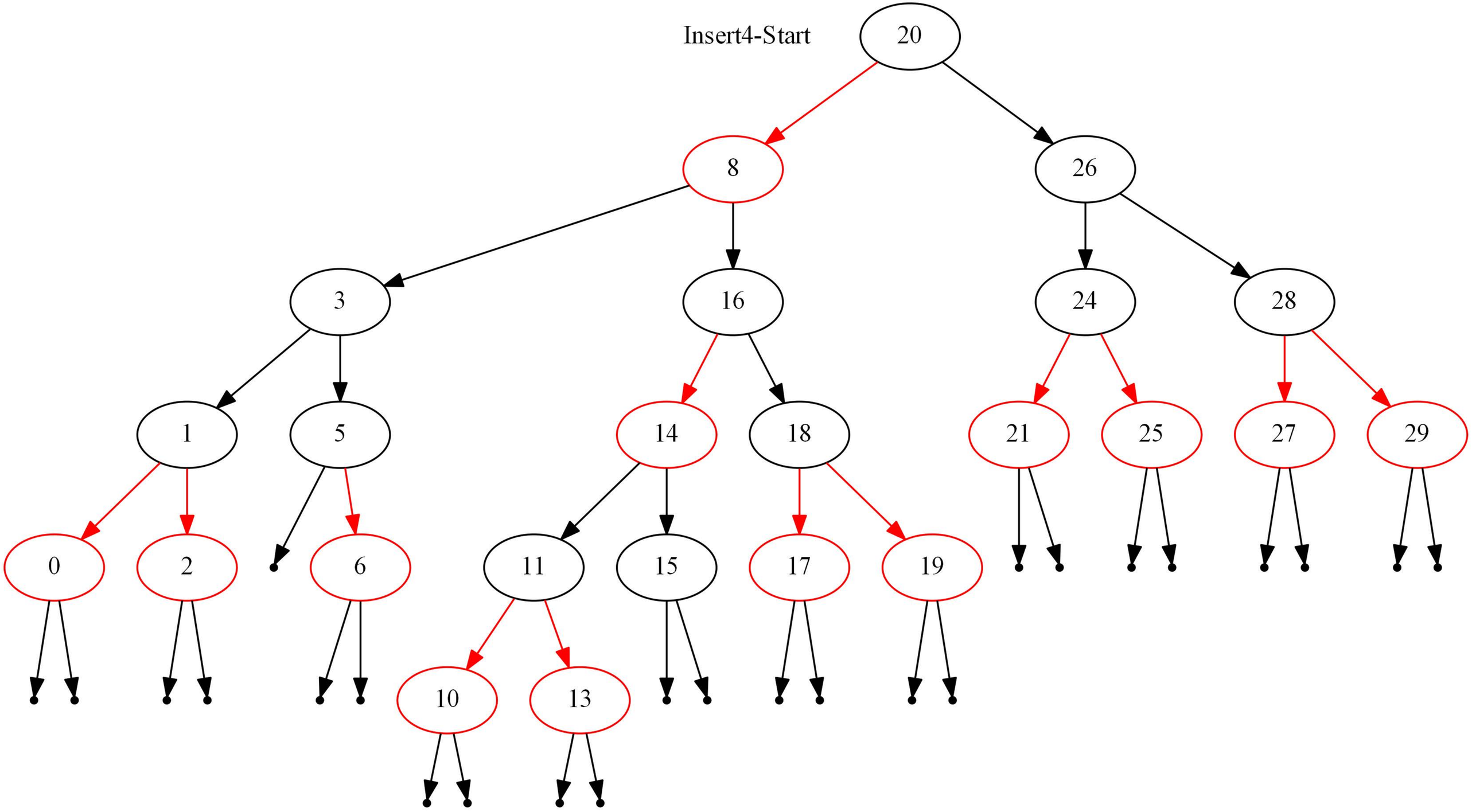
Insert4-Start
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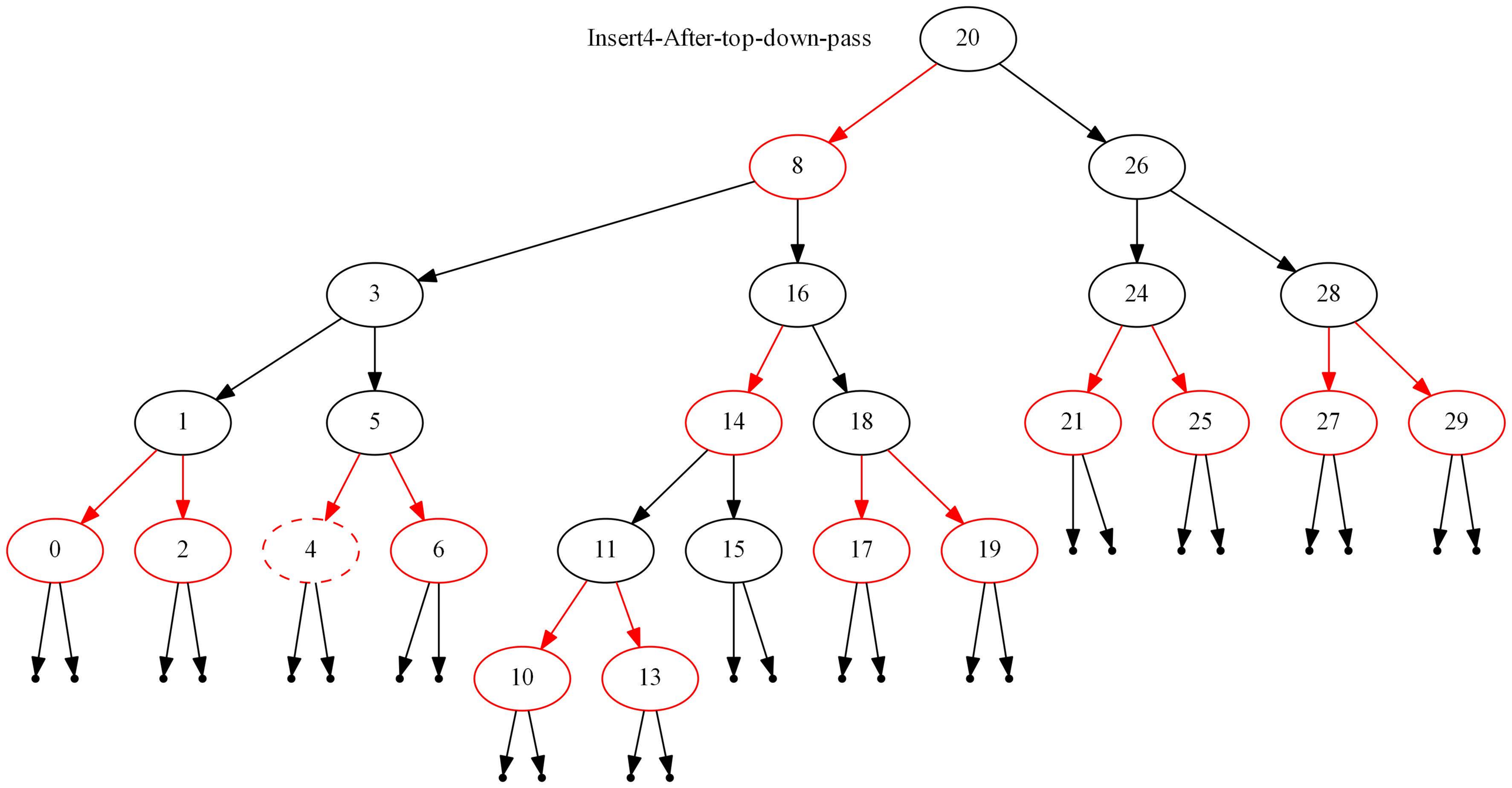
Insert4-After-top-down-pass
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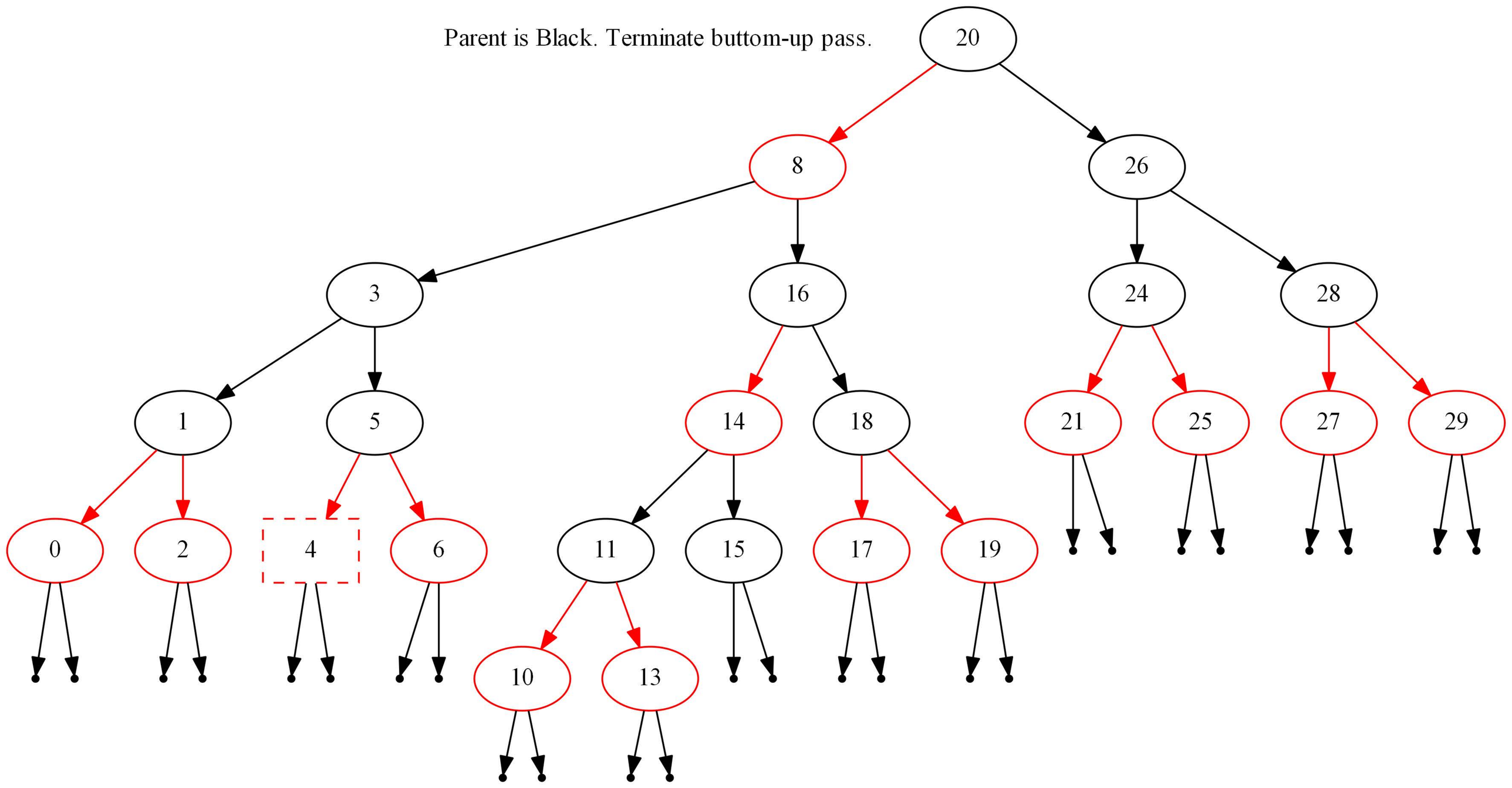
Parent is Black. Terminate buttom-up pass.
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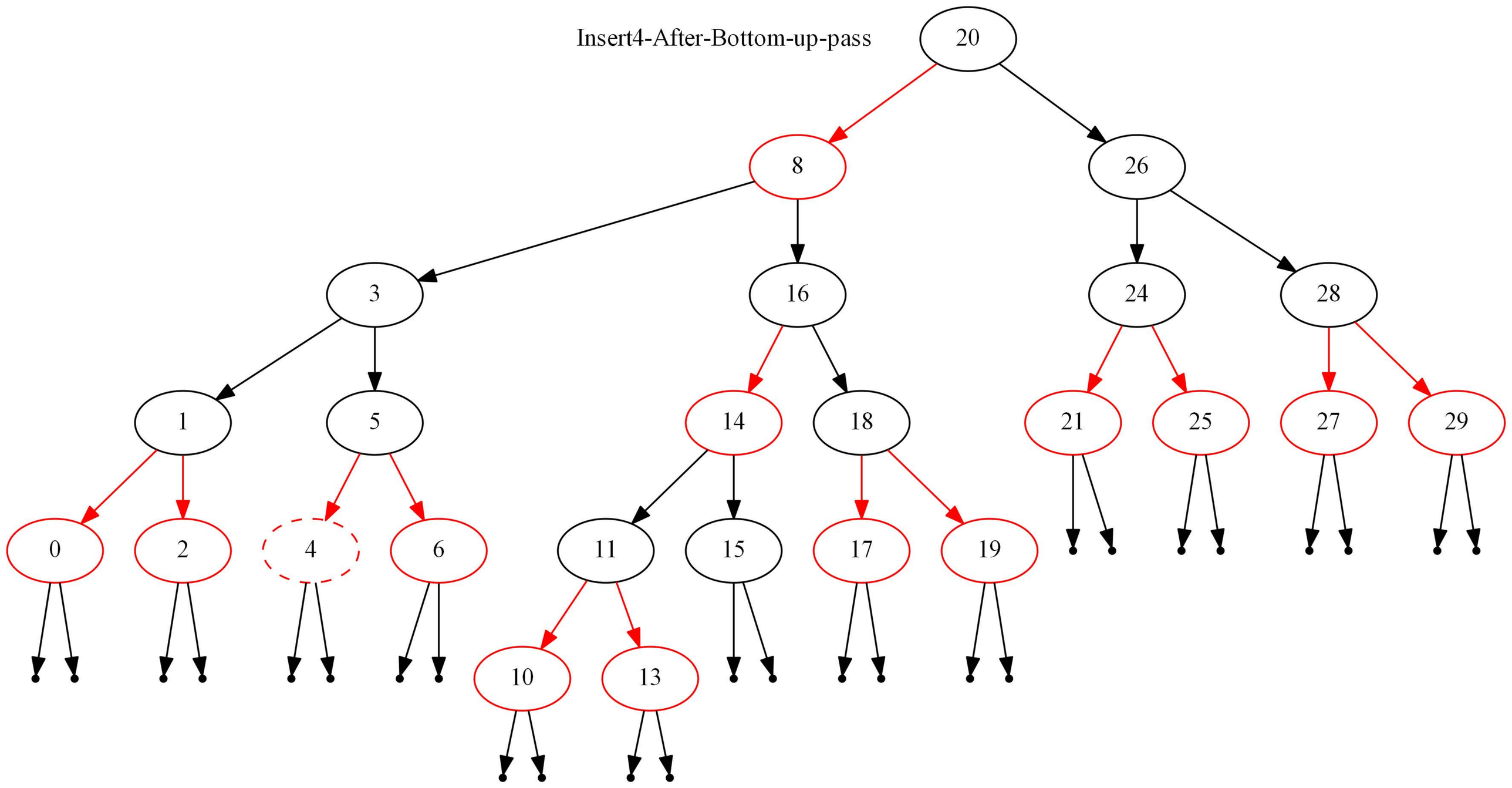
Insert4-After-Bottom-up-pass
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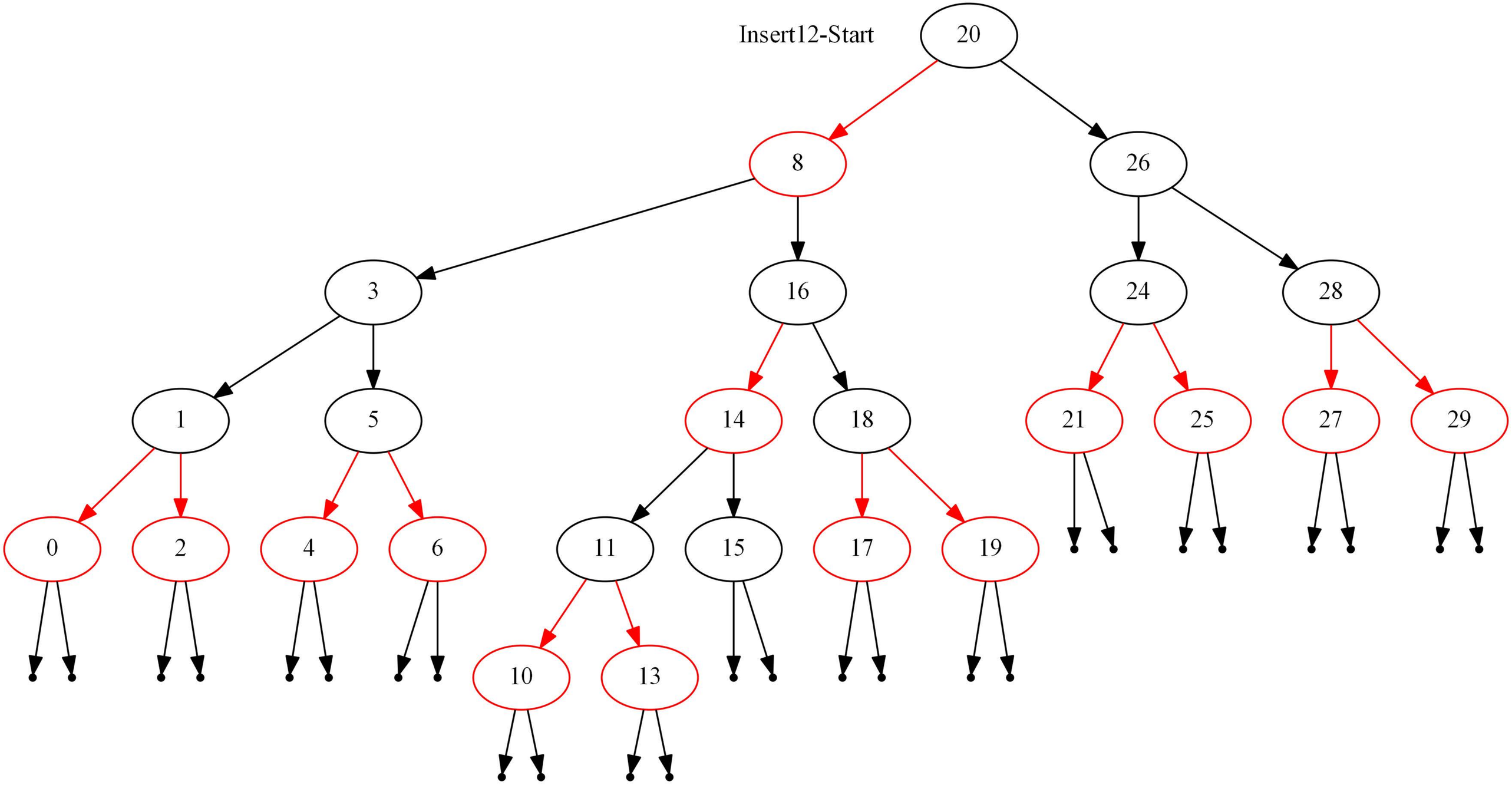
Insert12-Start
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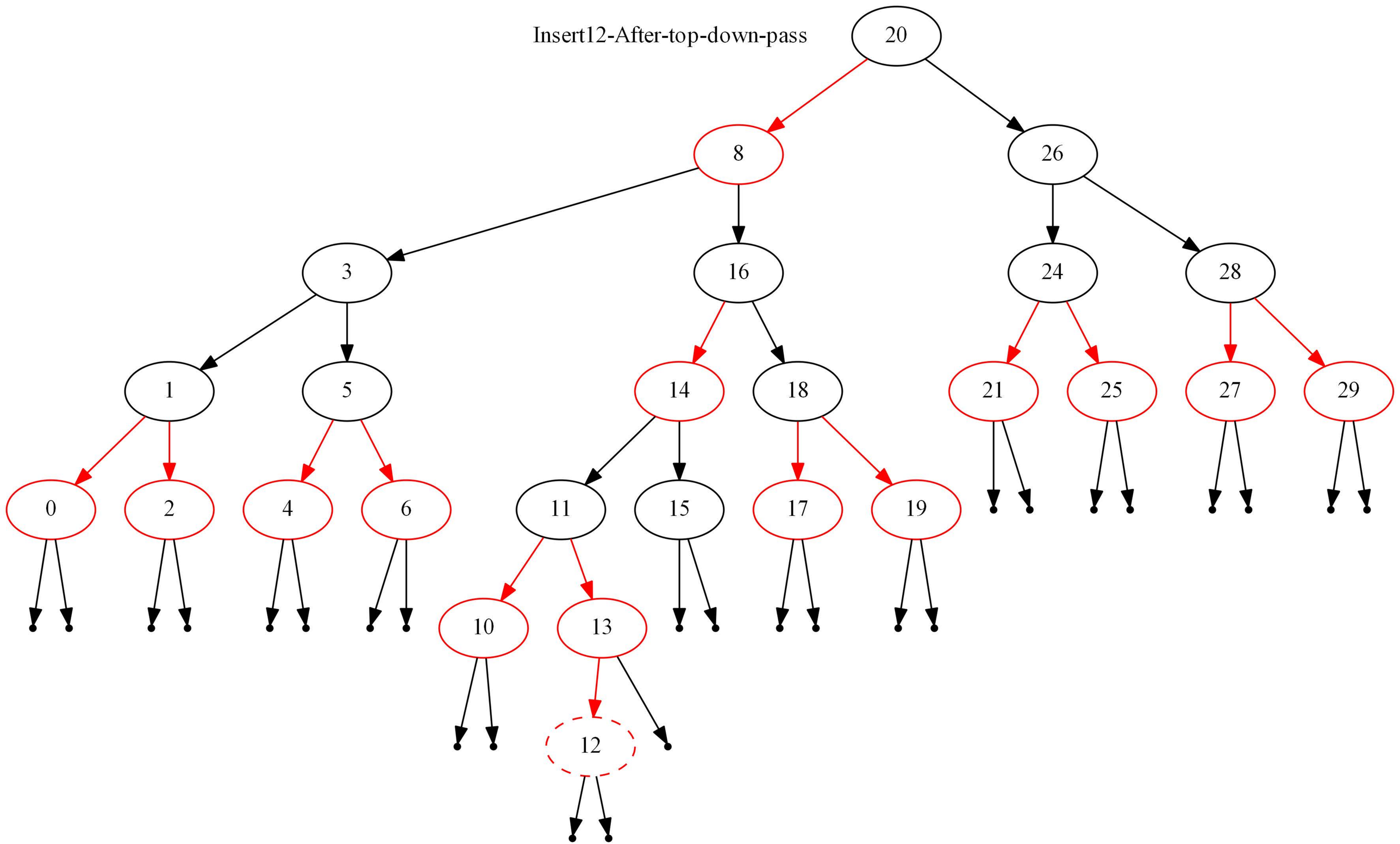
Insert12-After-top-down-pass
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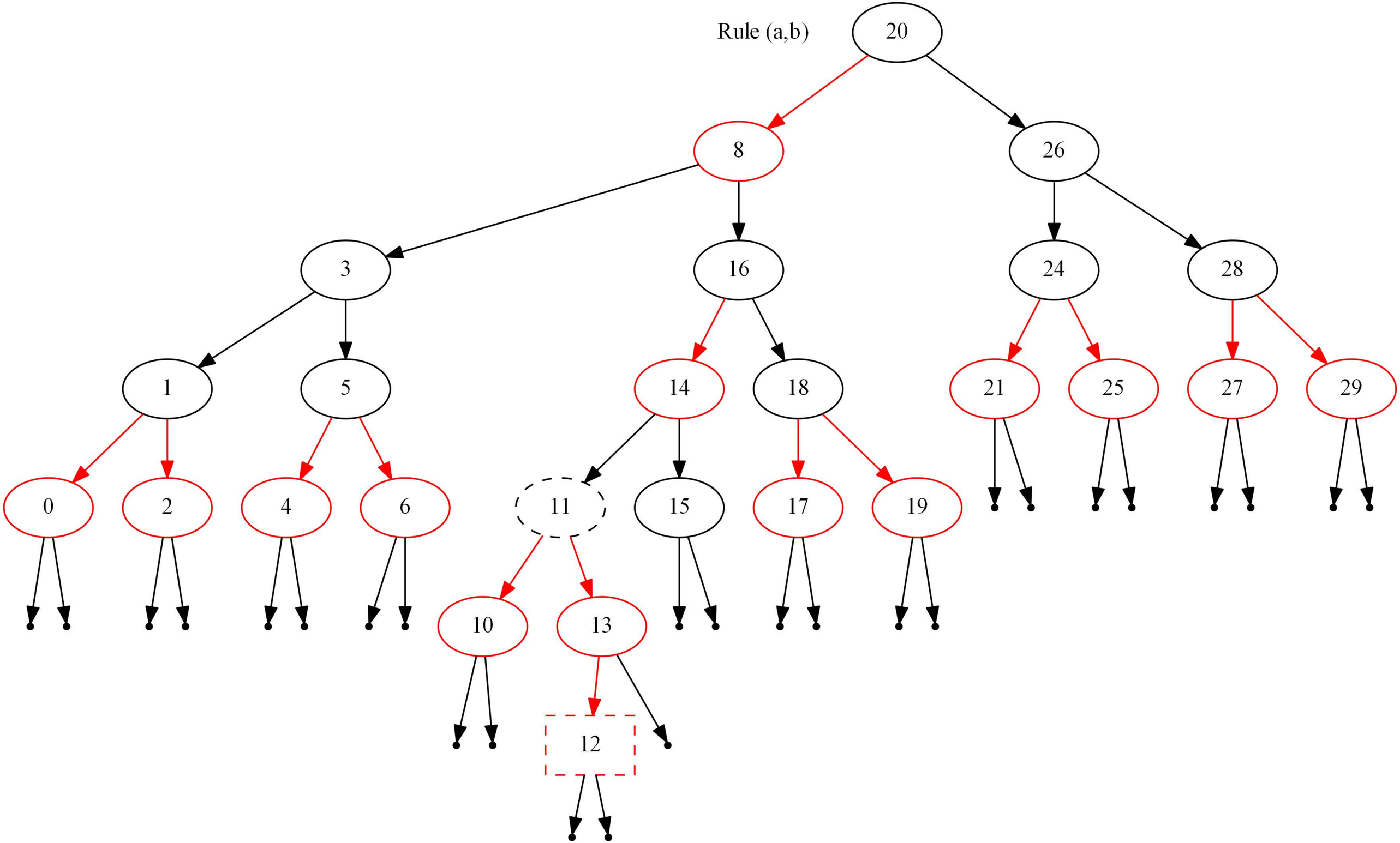
Rule (a,b)
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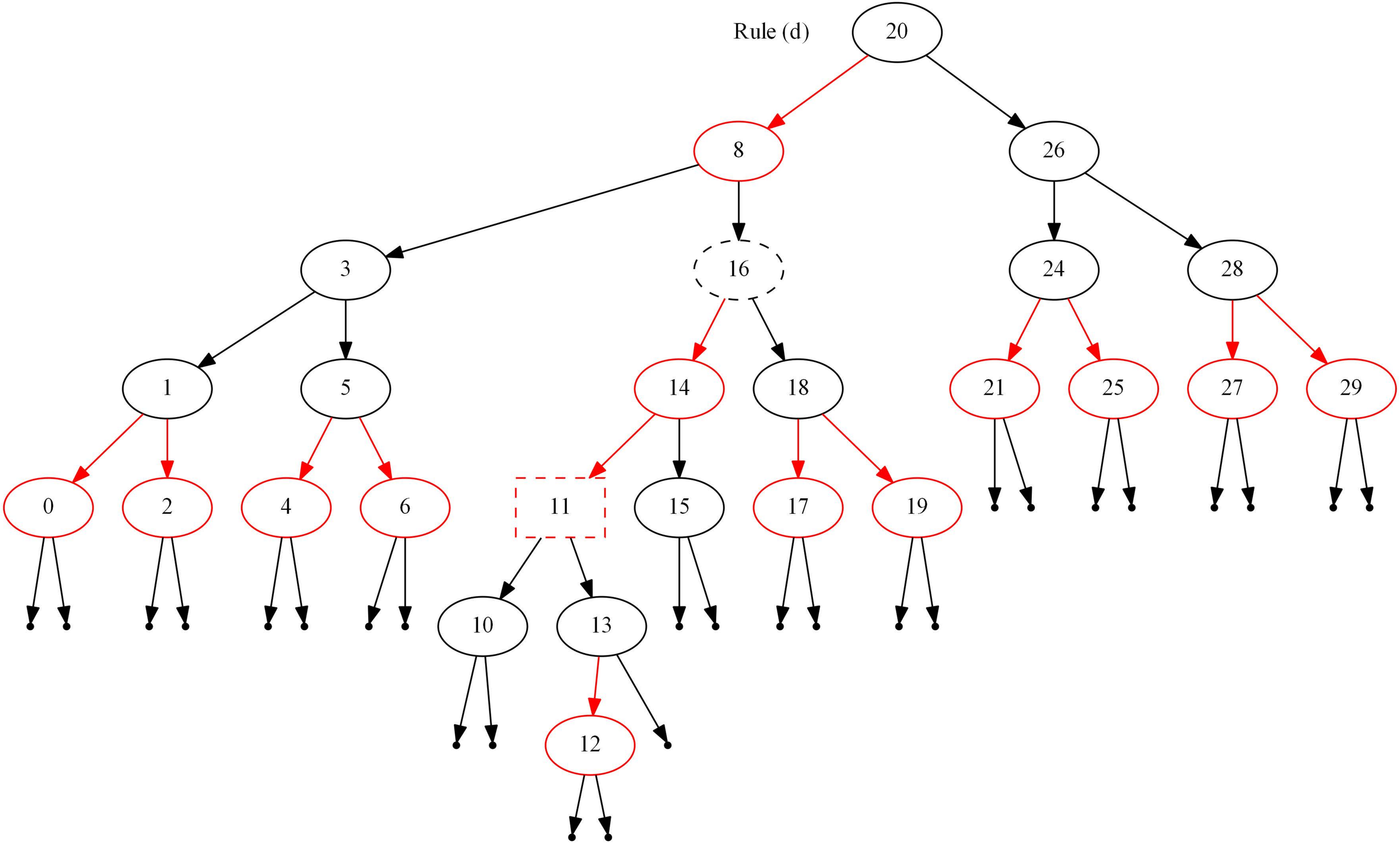
Rule (d)
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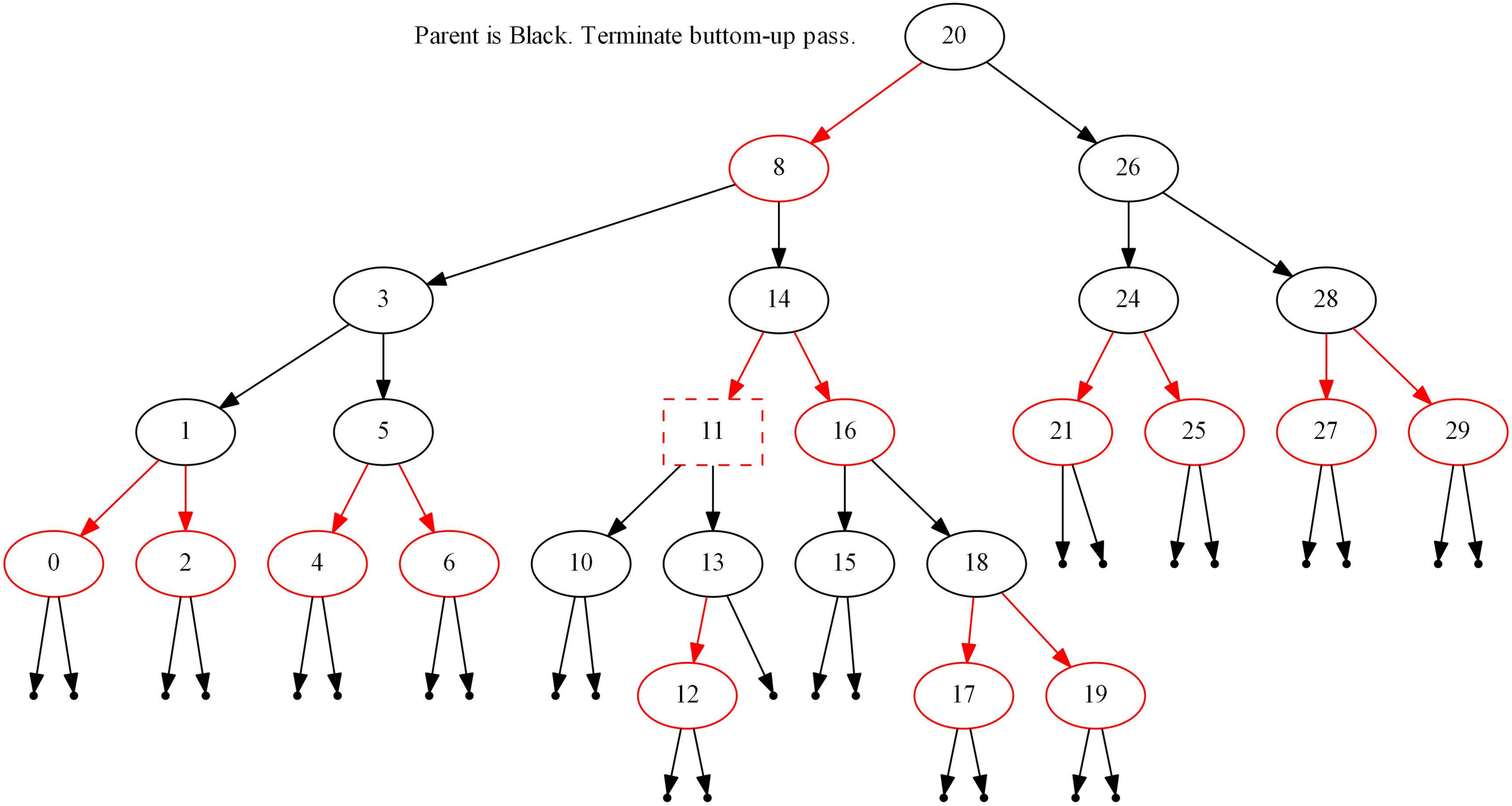
Parent is Black. Terminate buttom-up pass.
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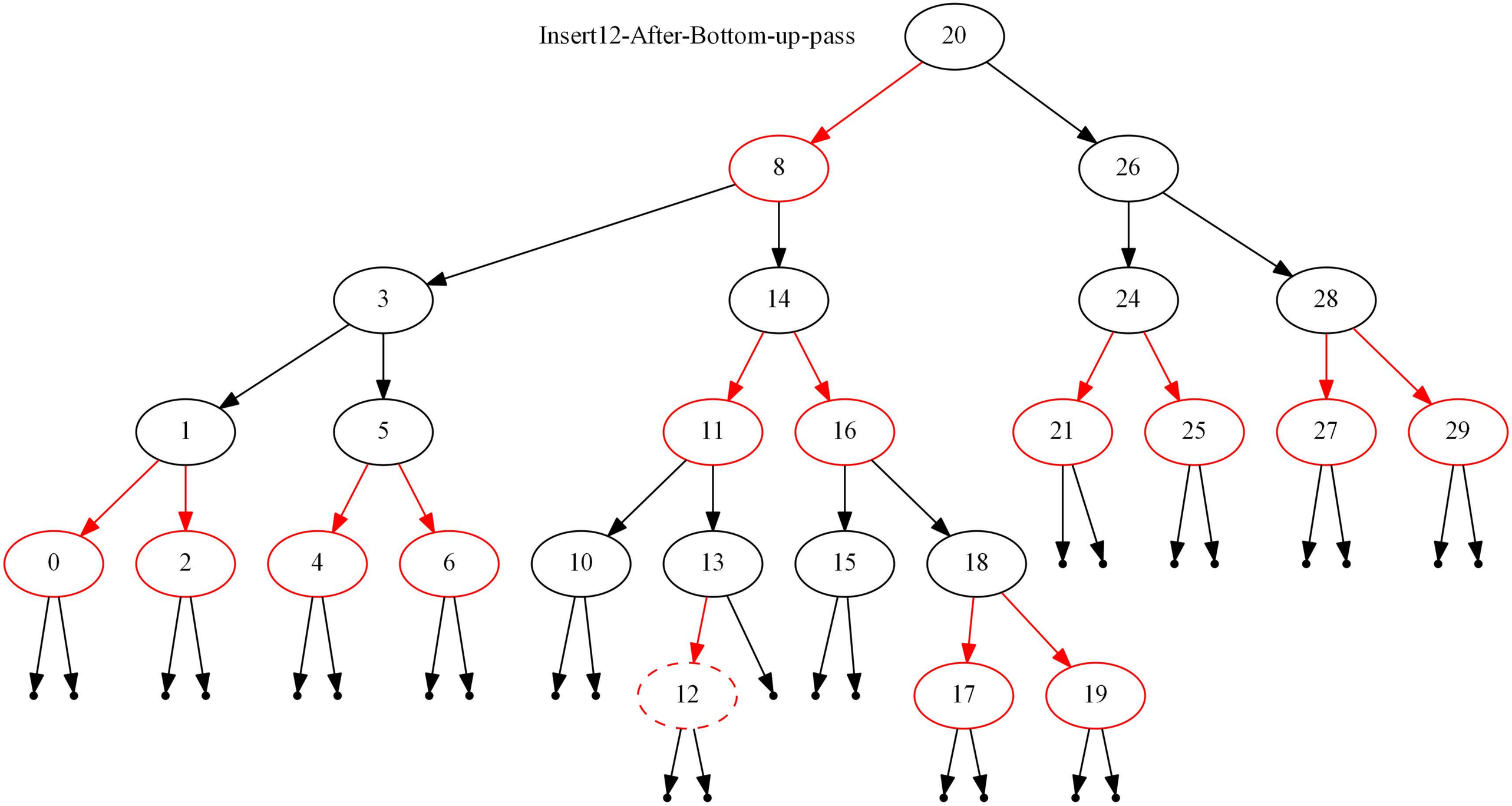
Insert12-After-Bottom-up-pass
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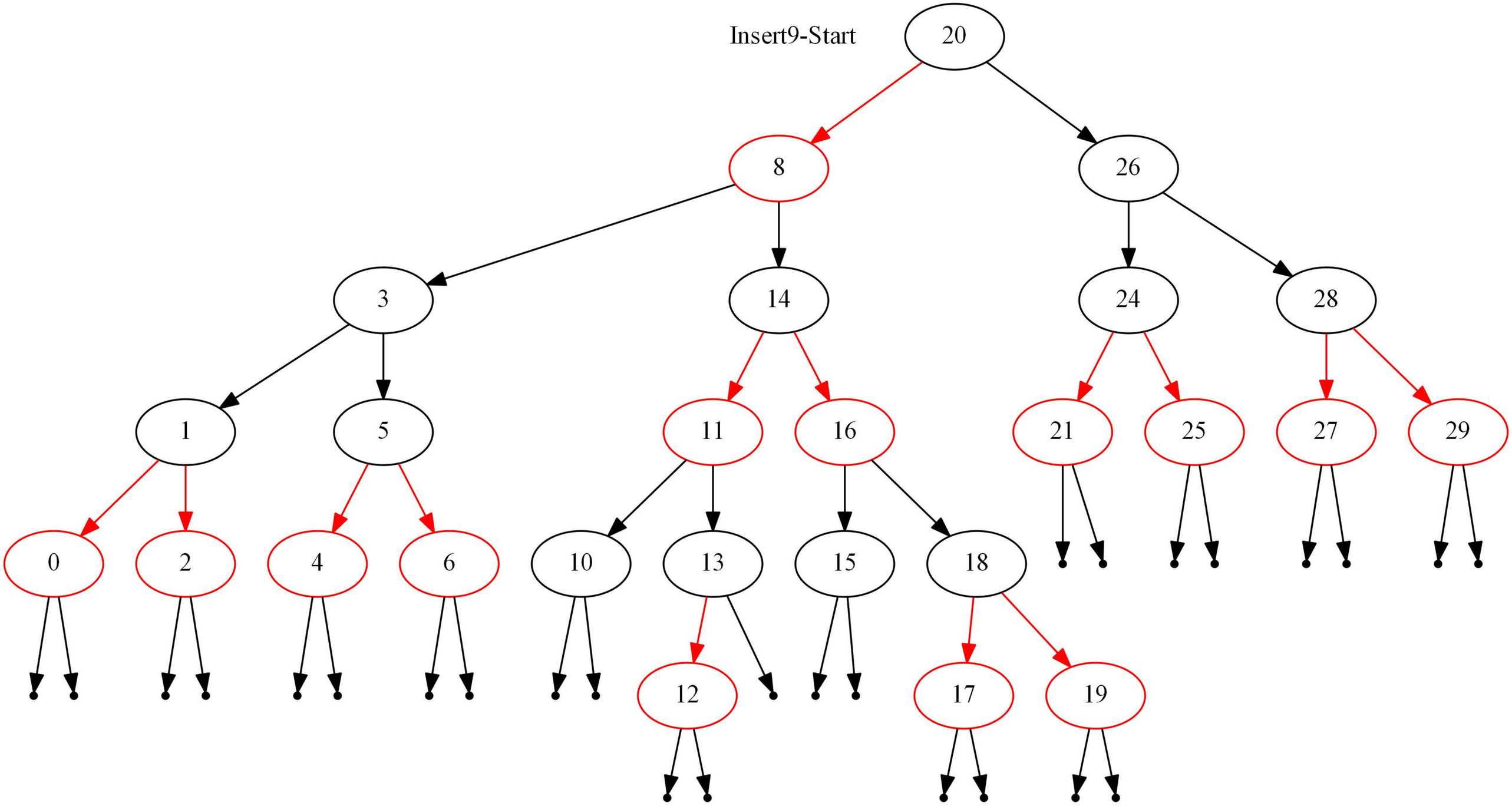
Insert9-Start
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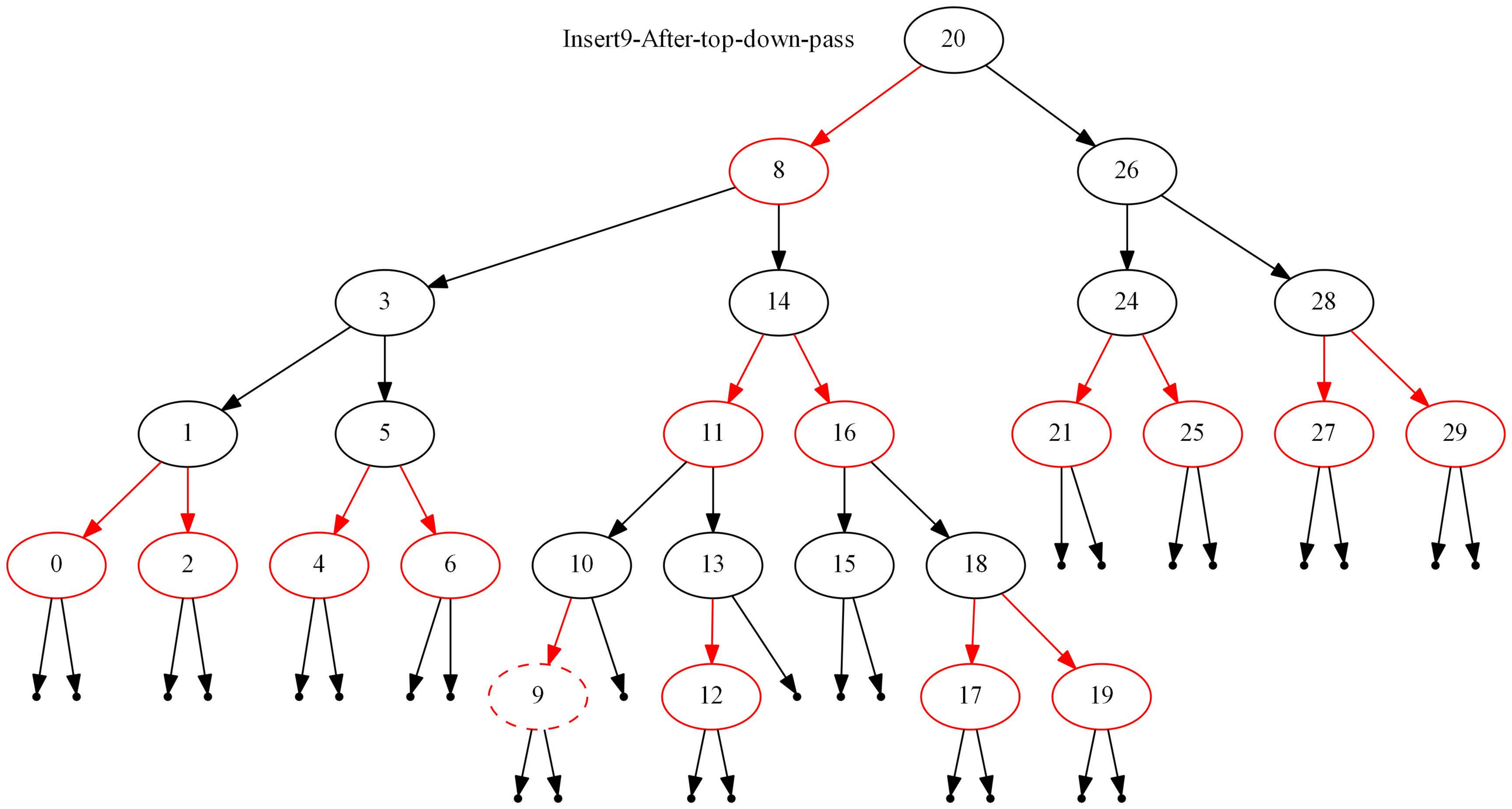
Insert9-After-top-down-pass
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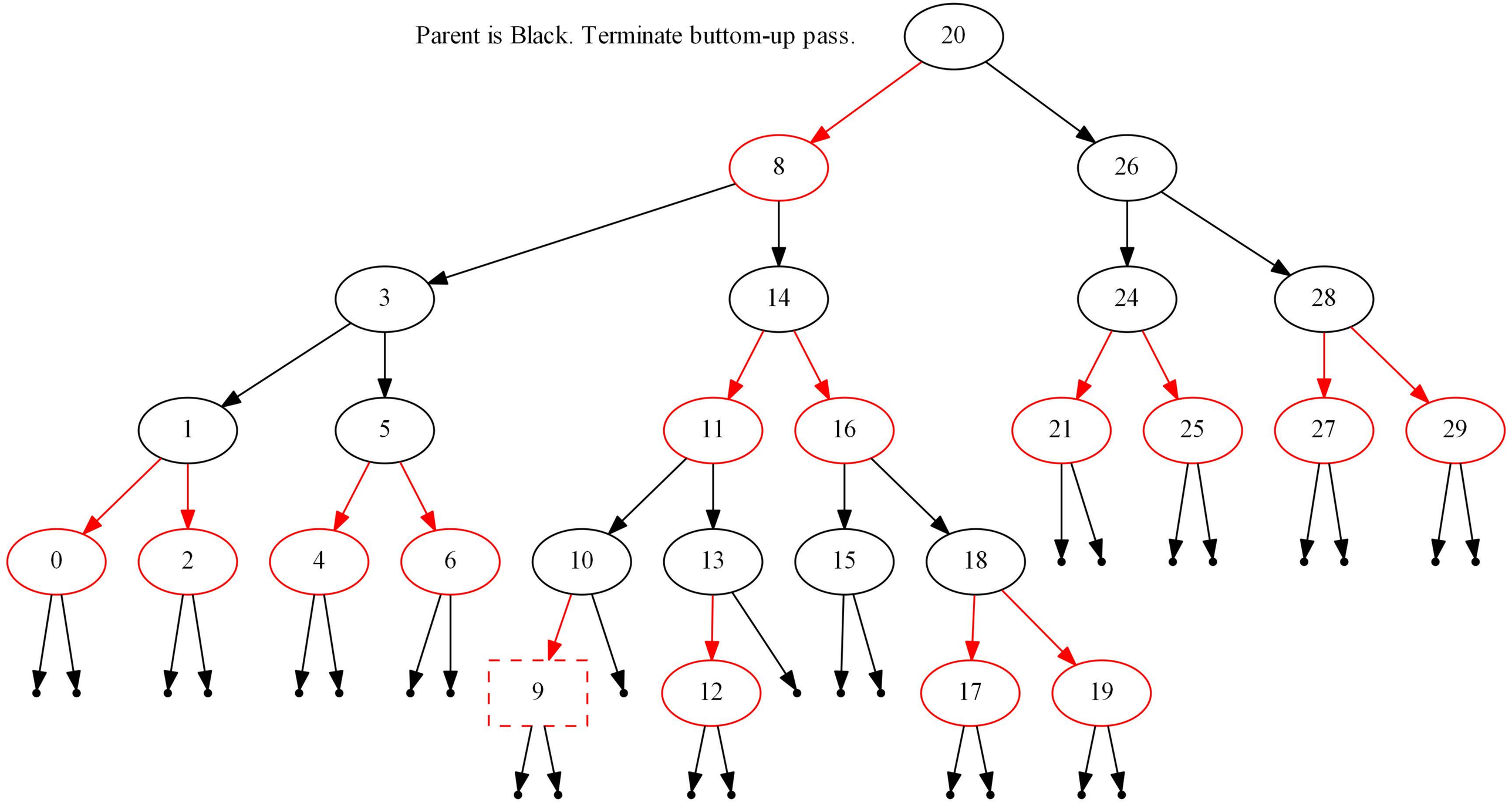
Parent is Black. Terminate buttom-up pass.
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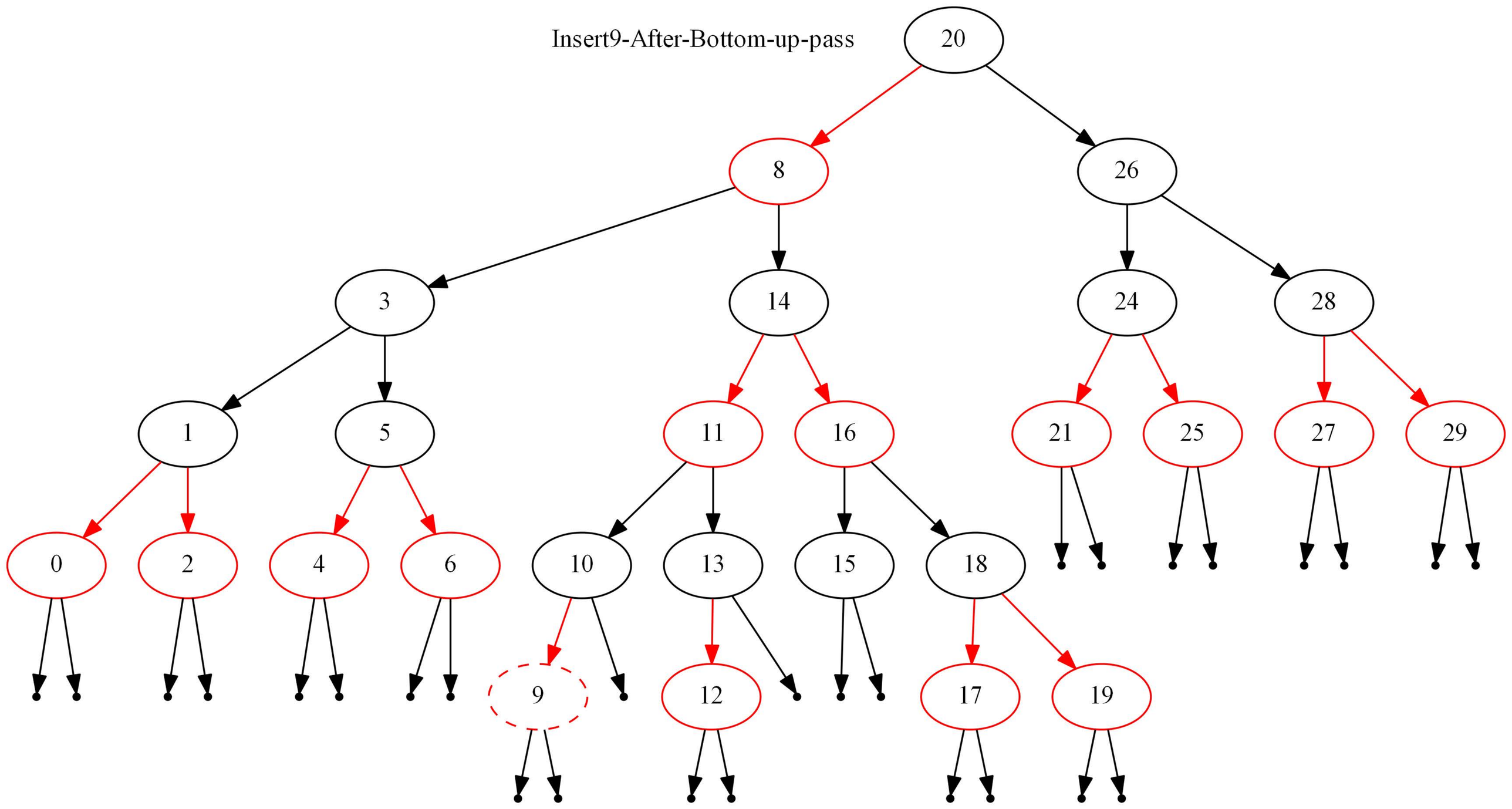
Insert9-After-Bottom-up-pass
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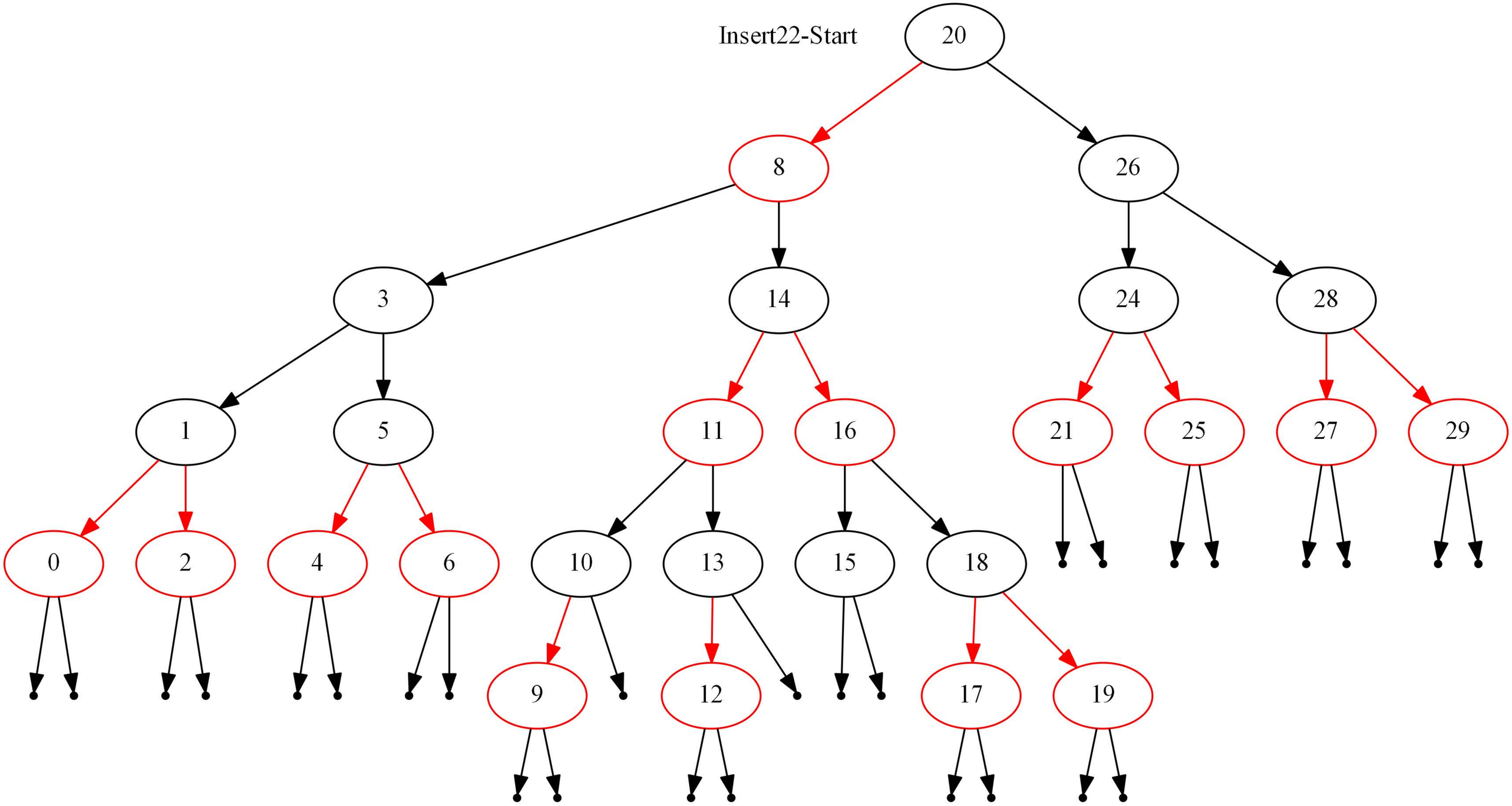
Insert22-Start
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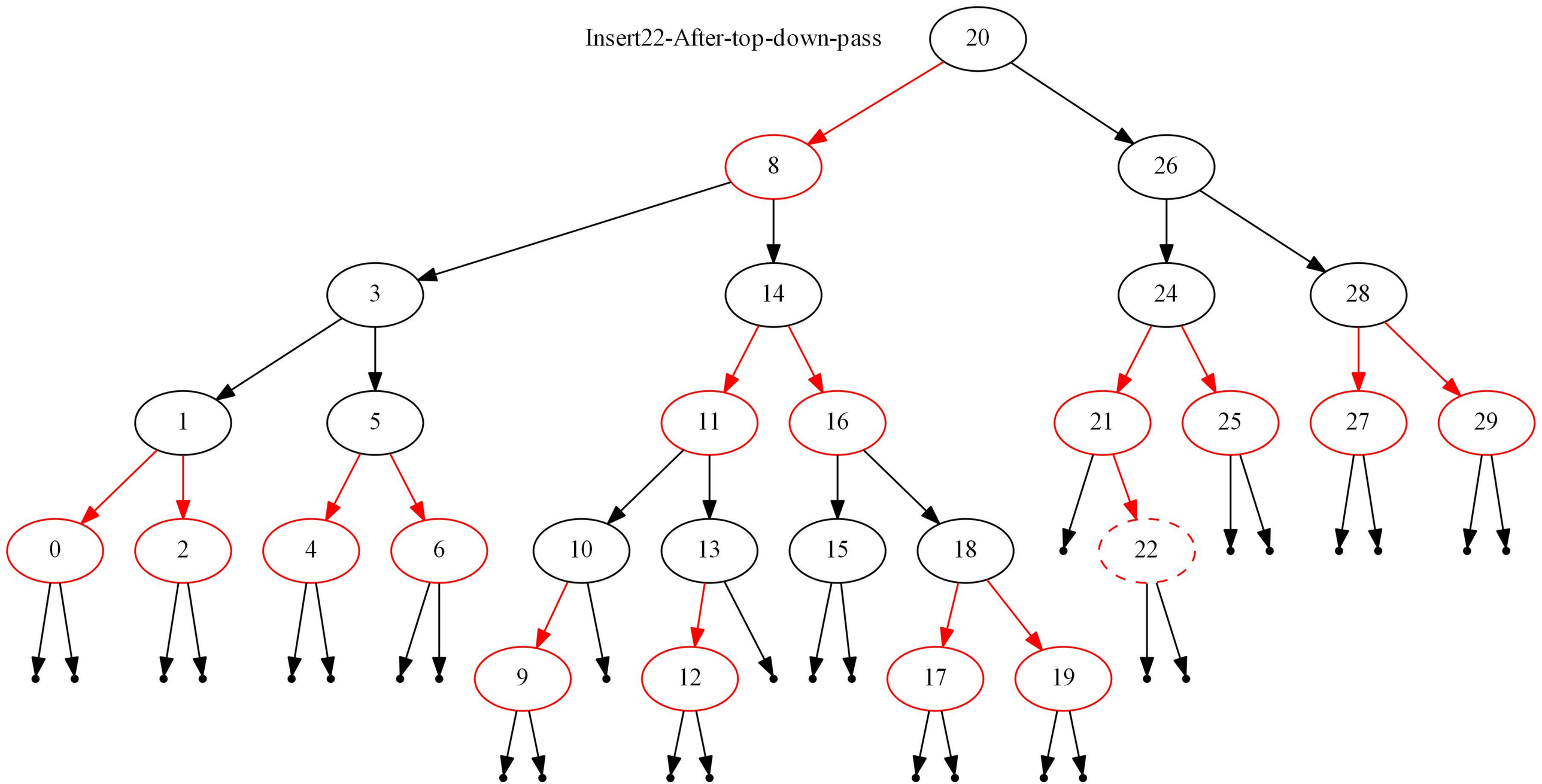
Insert22-After-top-down-pass
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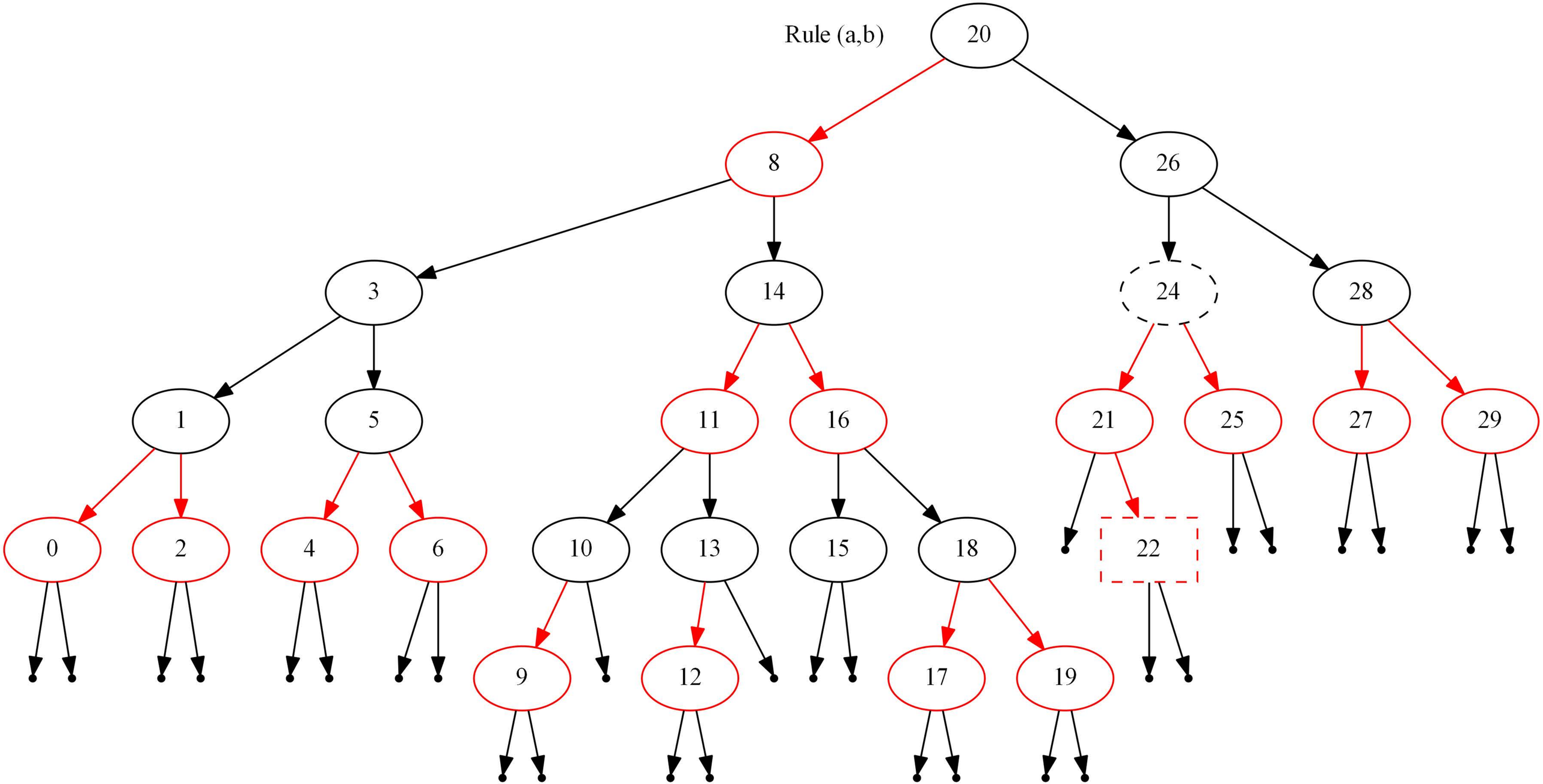
Rule (a,b)
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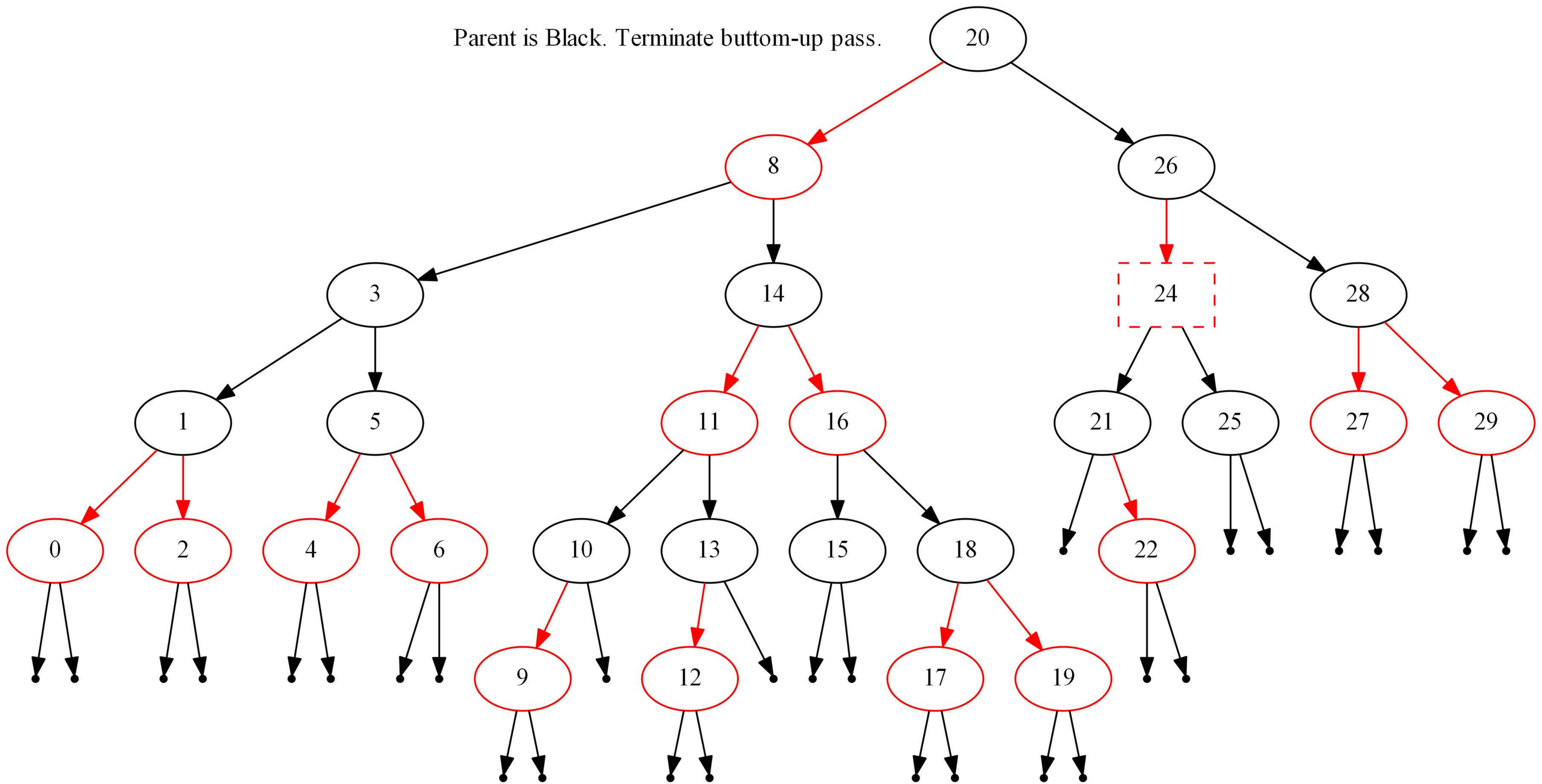
Parent is Black. Terminate buttom-up pass.
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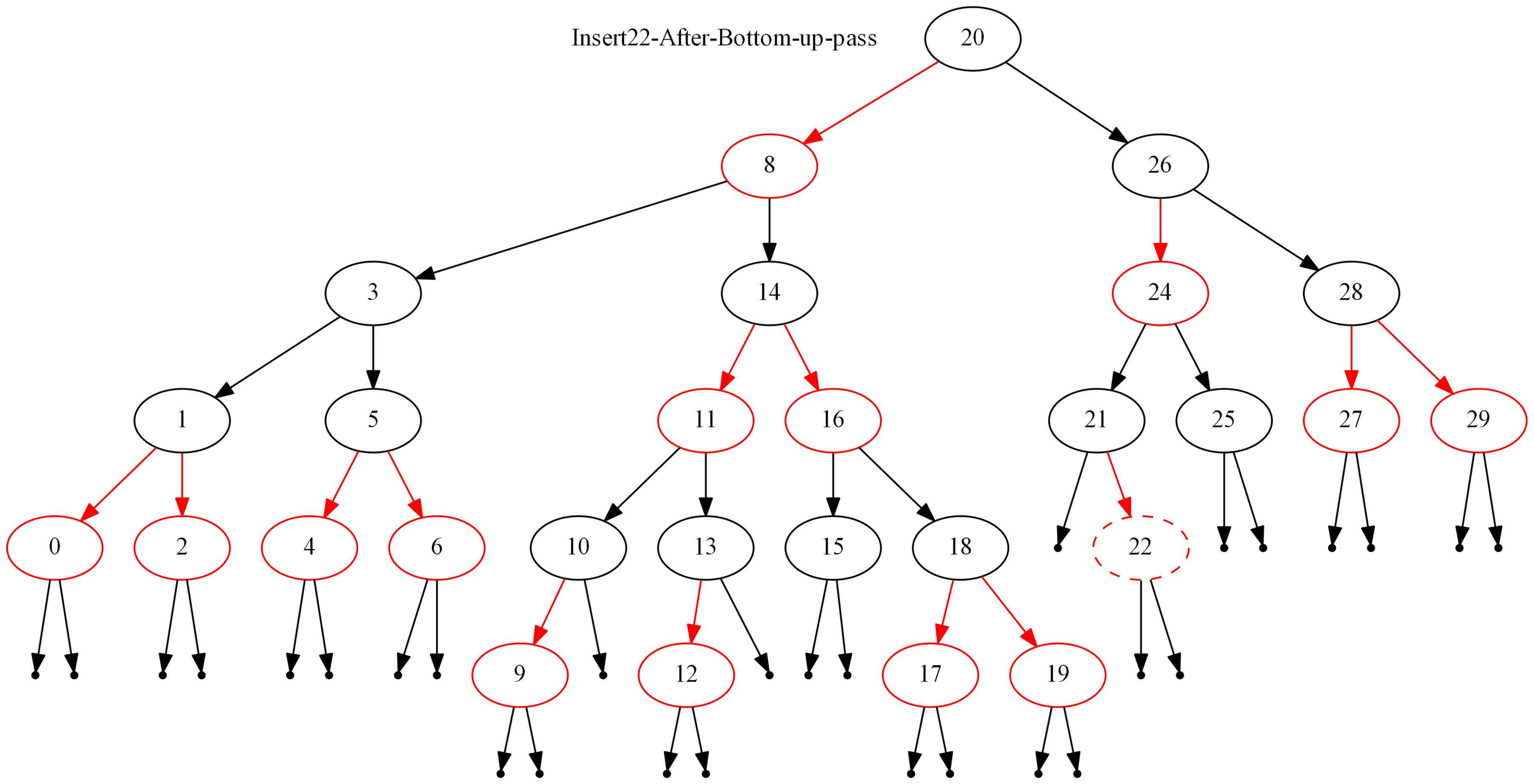
Insert22-After-Bottom-up-pass
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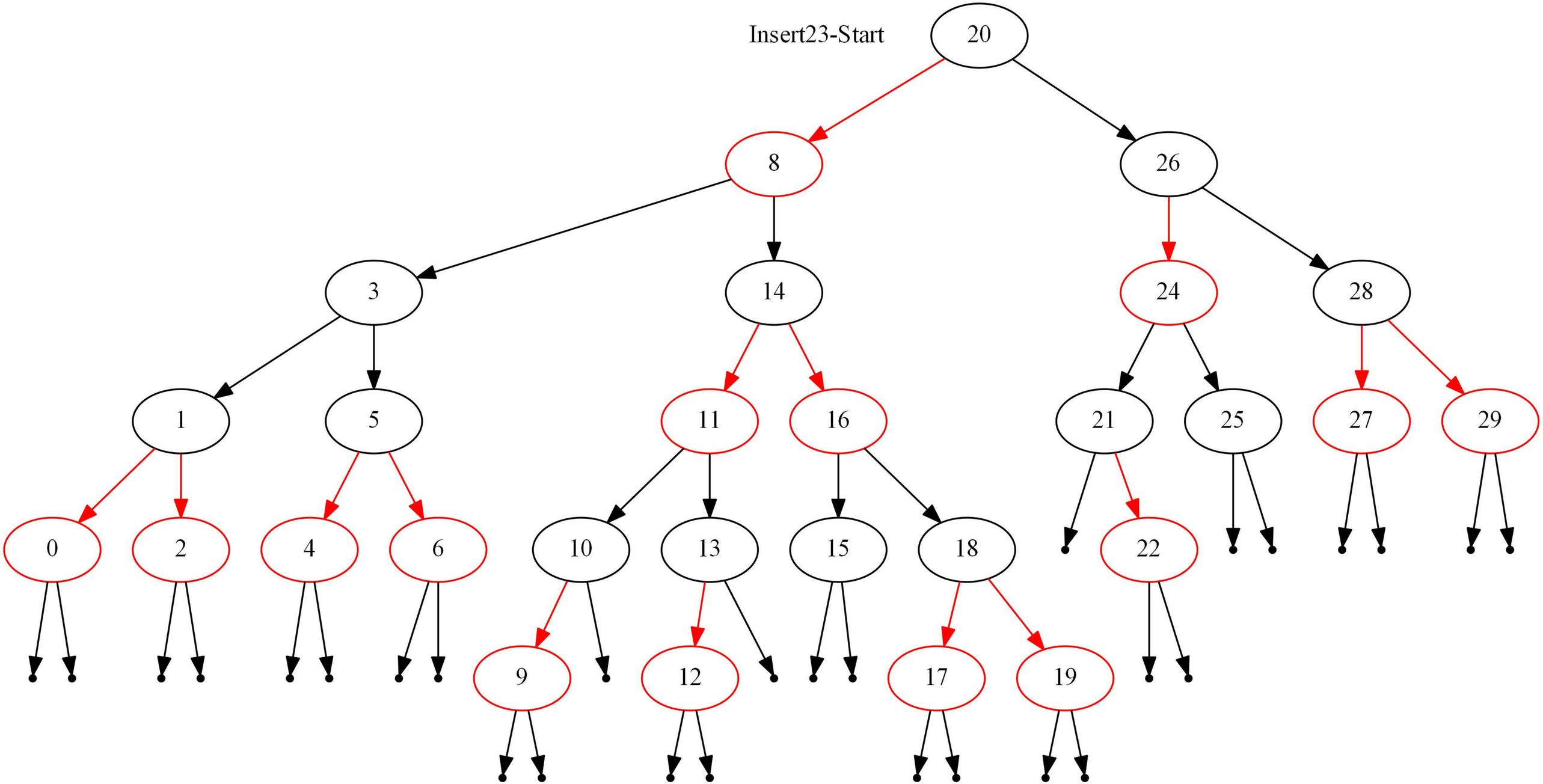
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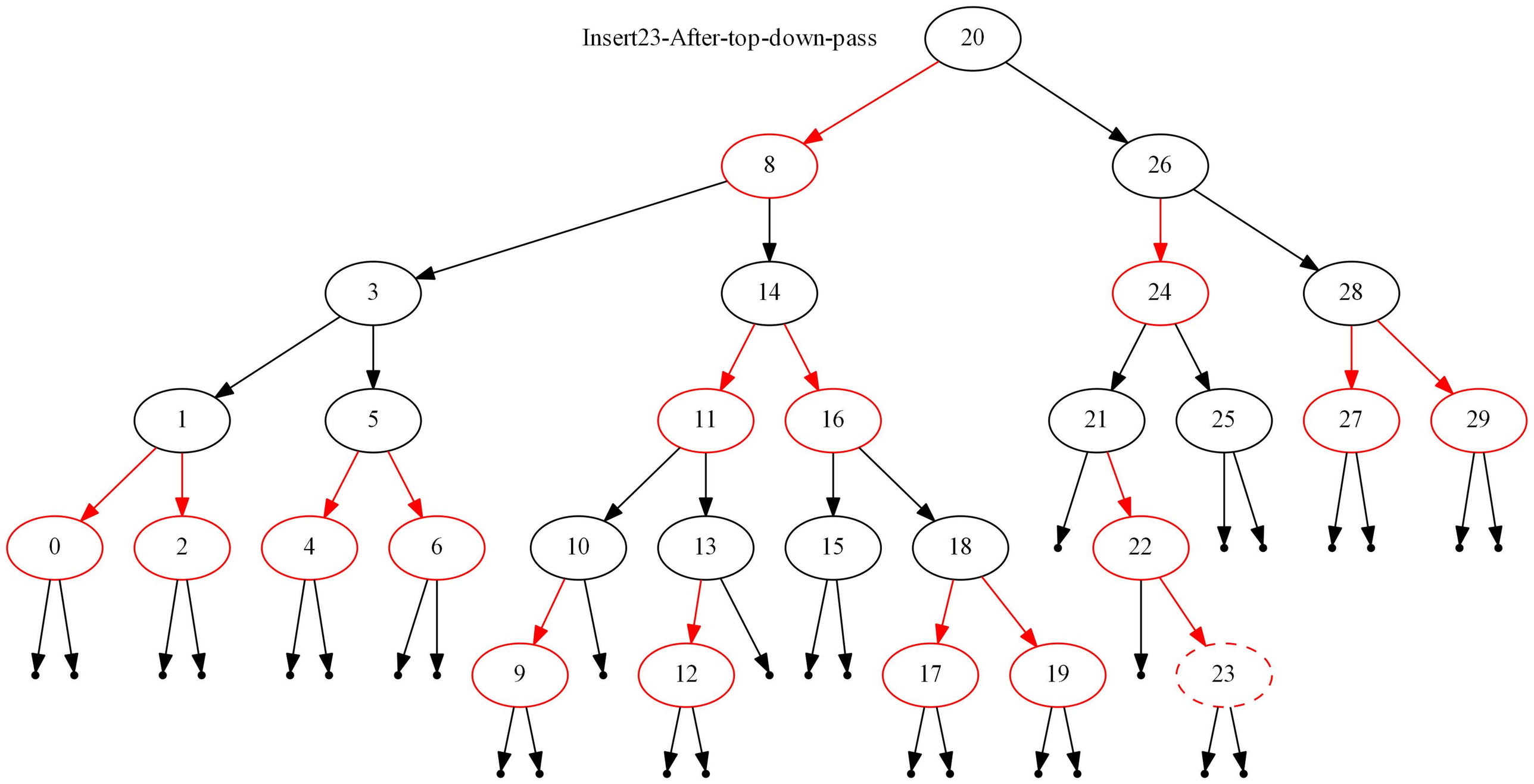
Insert23-After-top-down-pass
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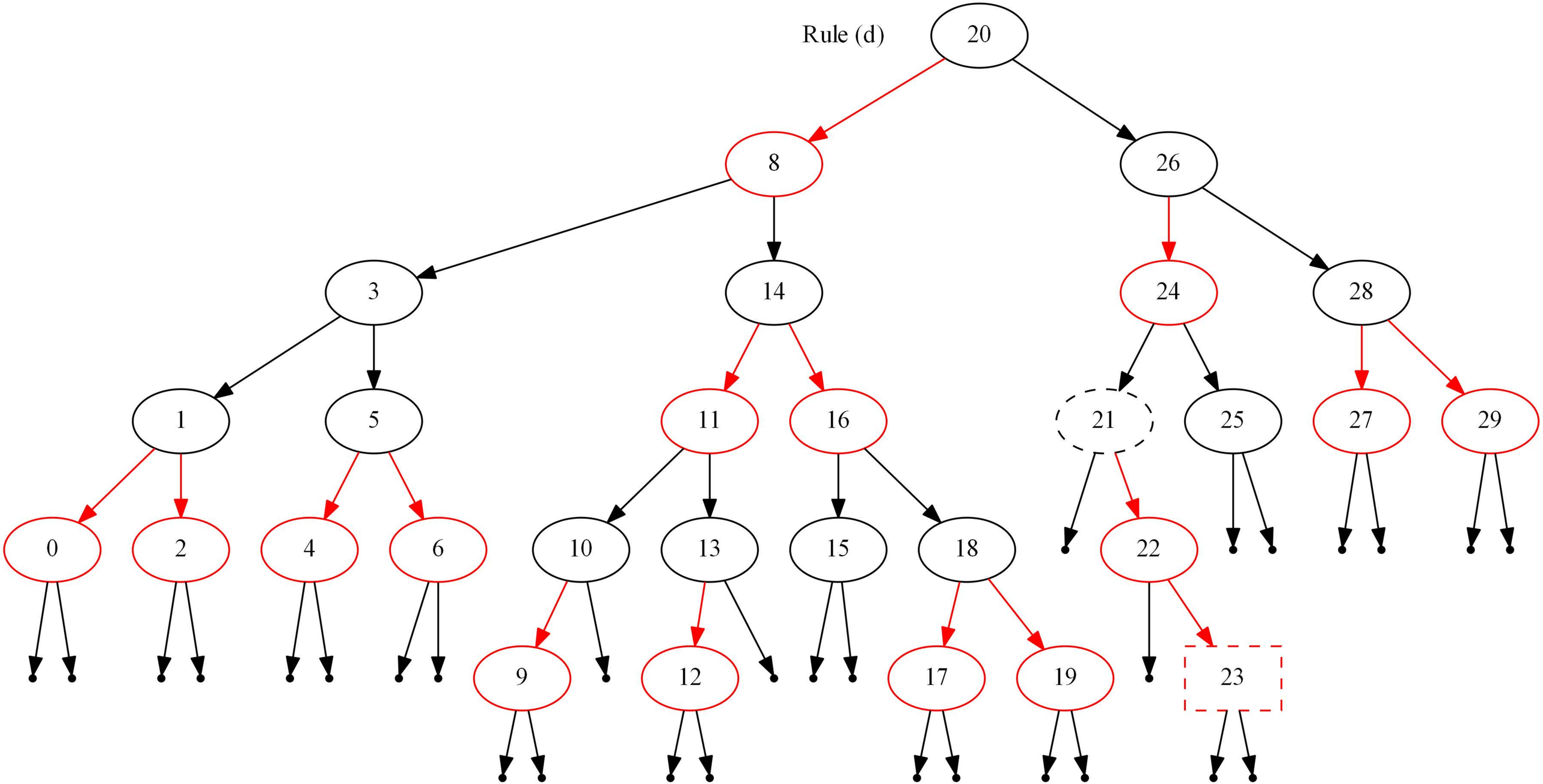
Rule (d)
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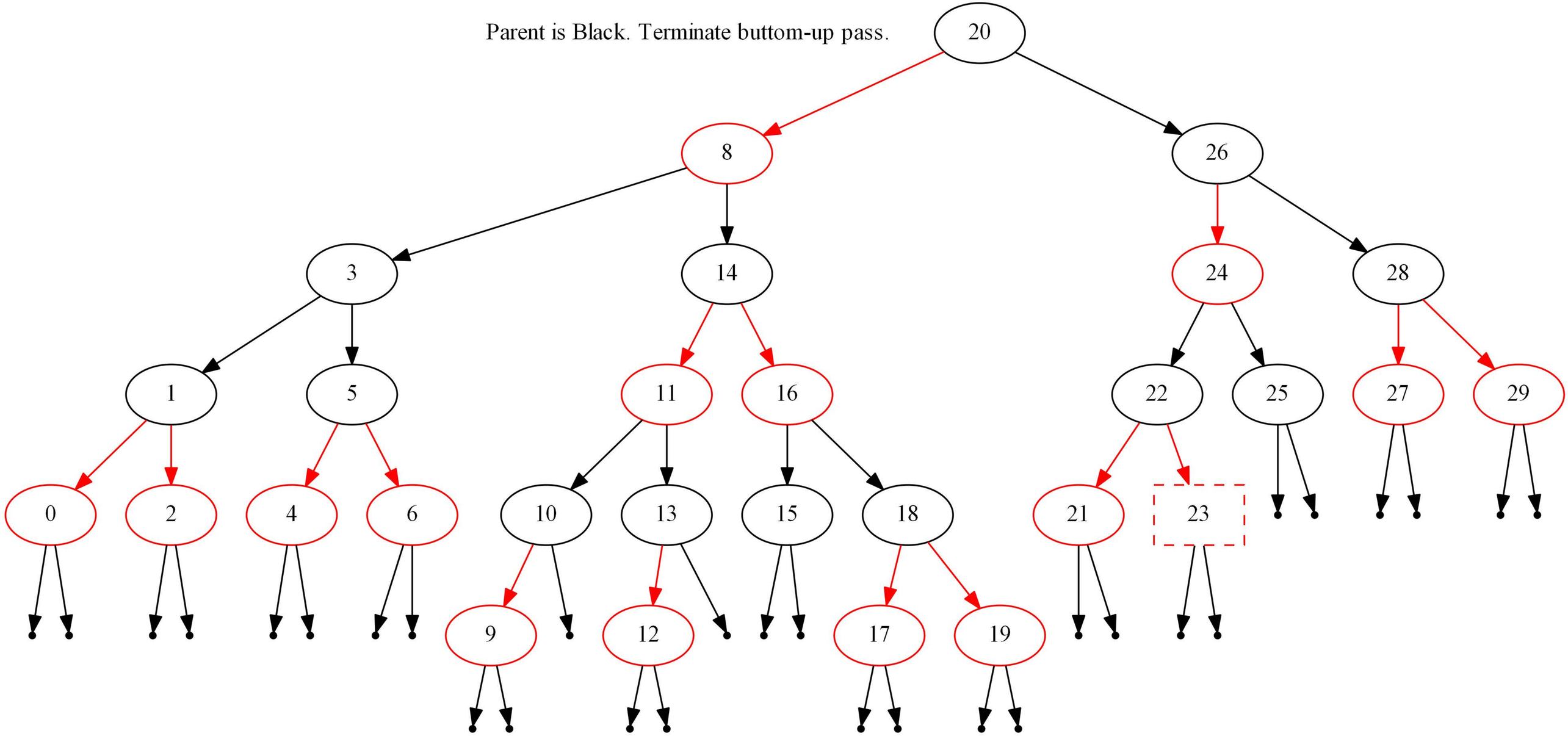
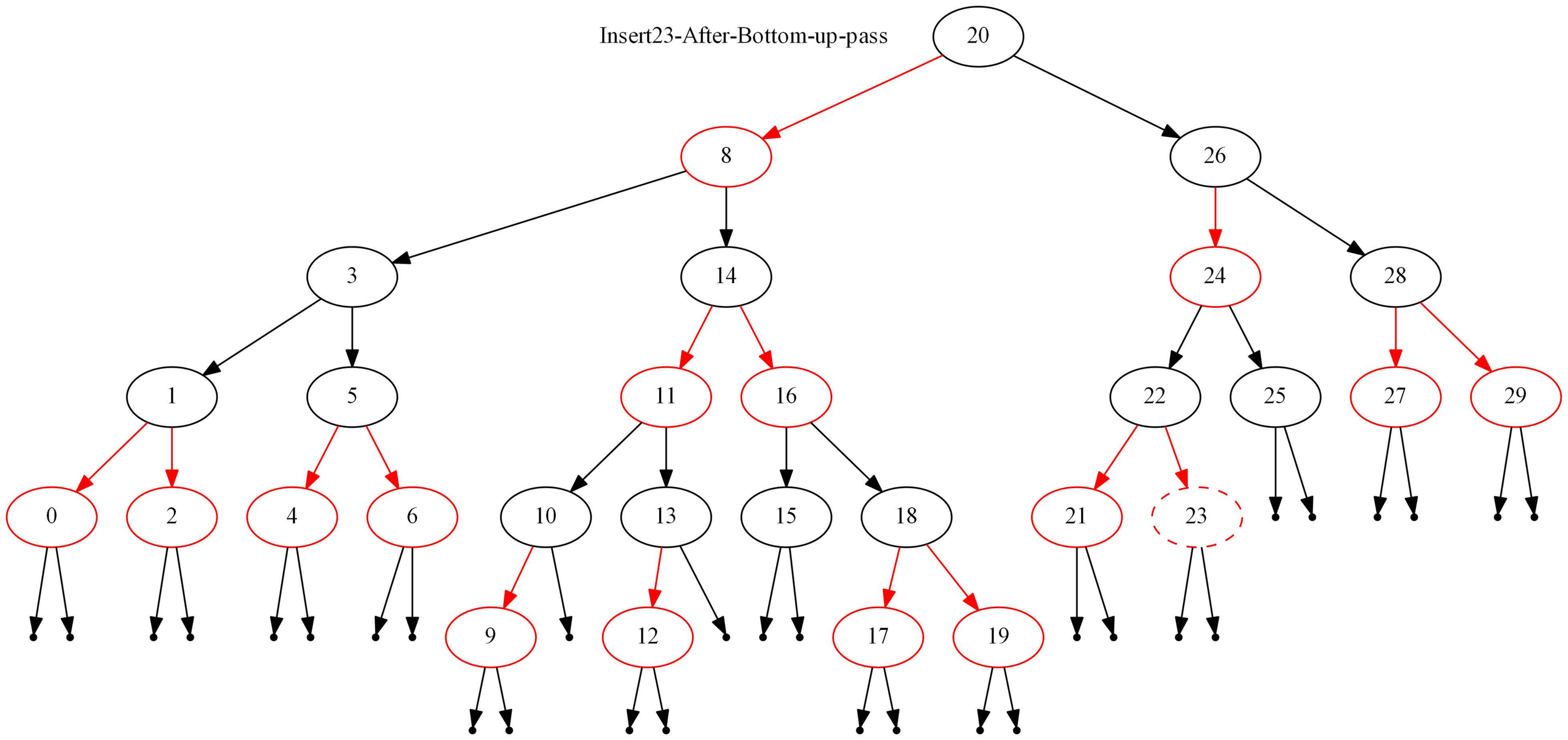
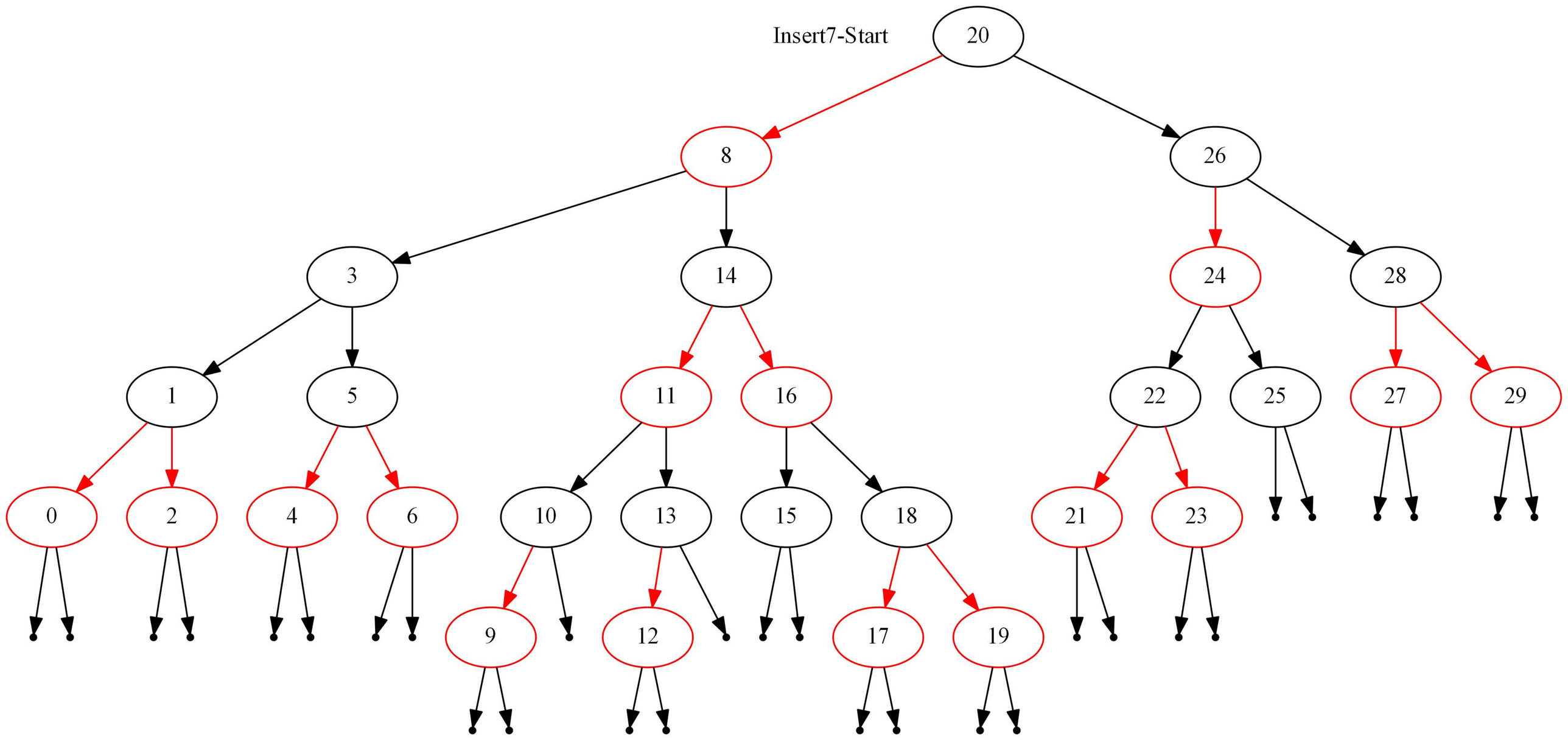
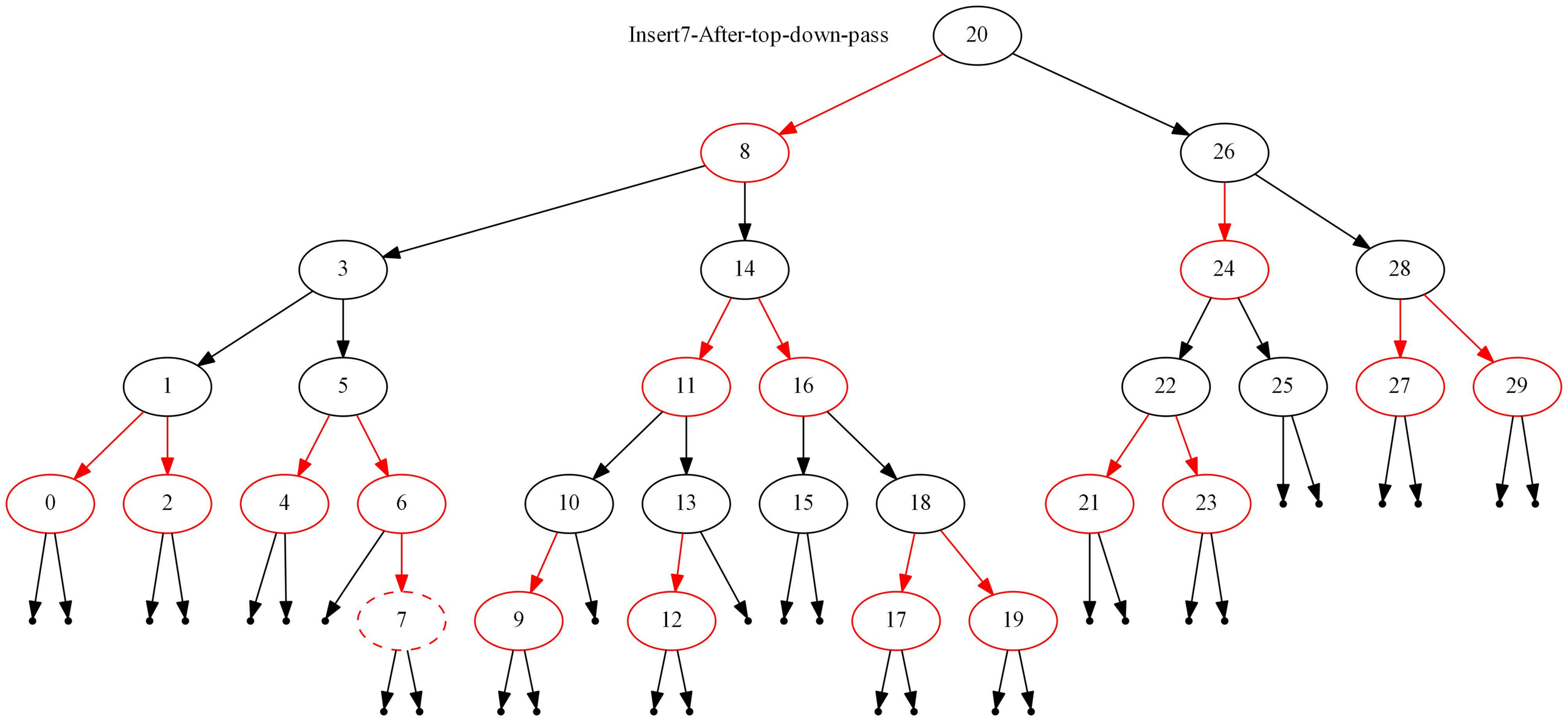
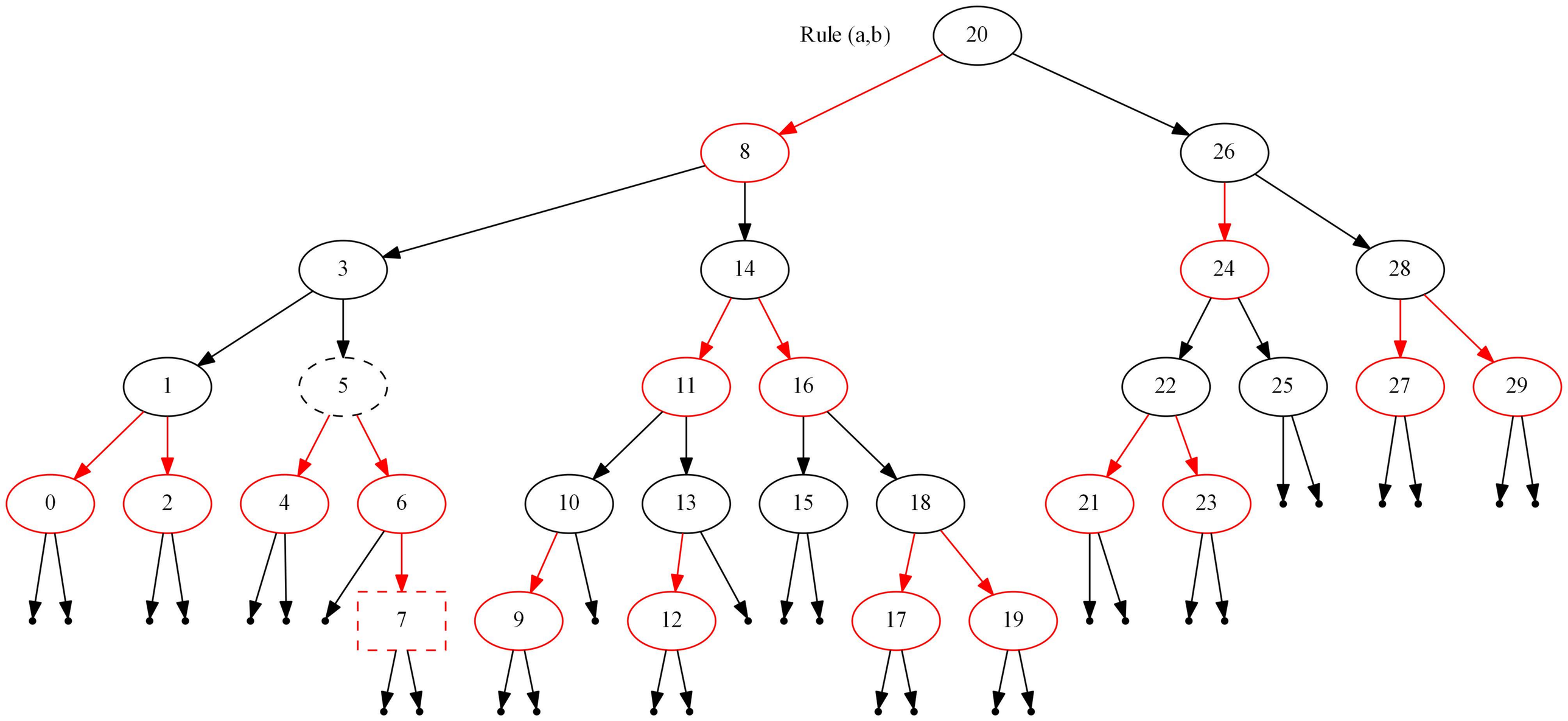
Parent is Black. Terminate buttom-up pass.



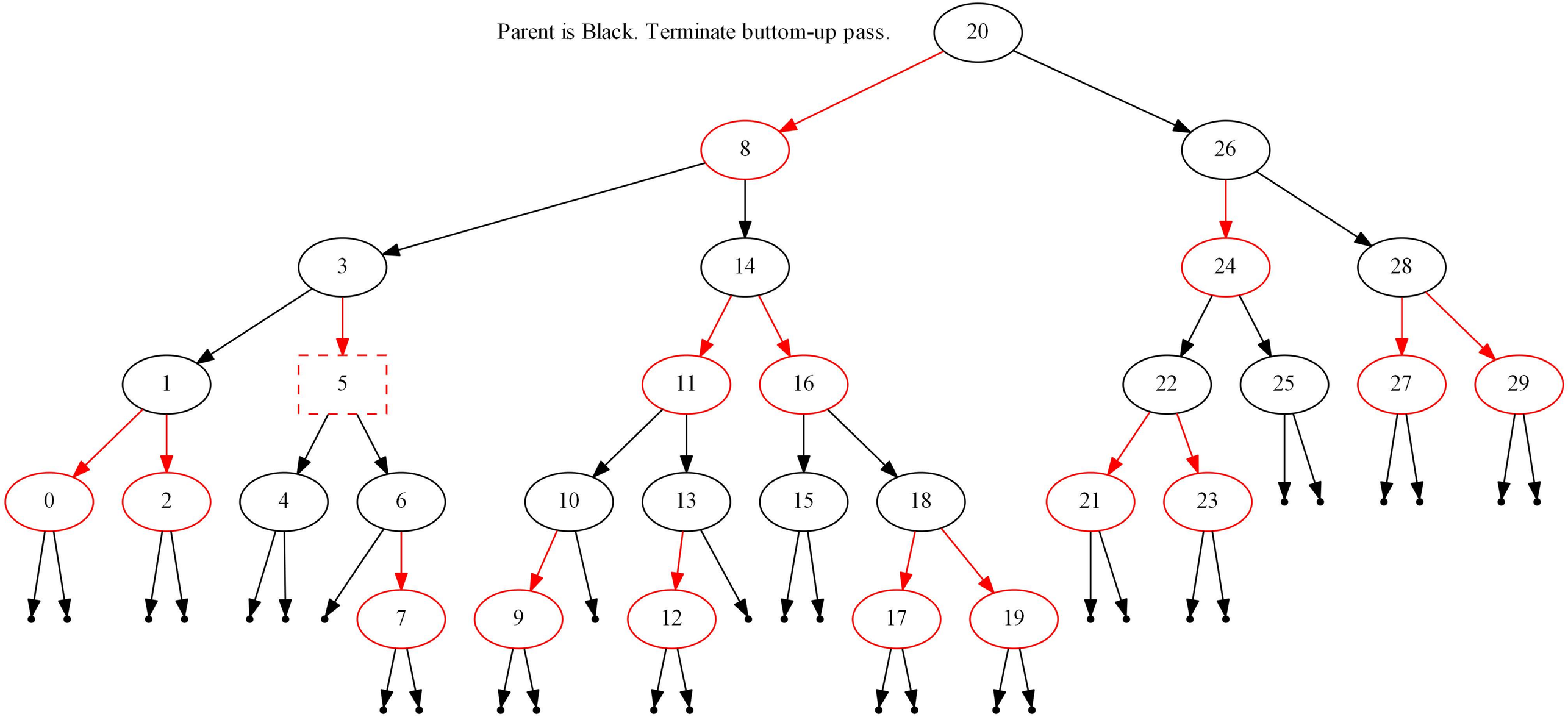

Insert23-After-Bottom-up-pass
20
8
26
3
14
24
28
1
5
11
16
22
25
27
29
0
2
4
6
10
13
15
18
21
23
9
12
17
19

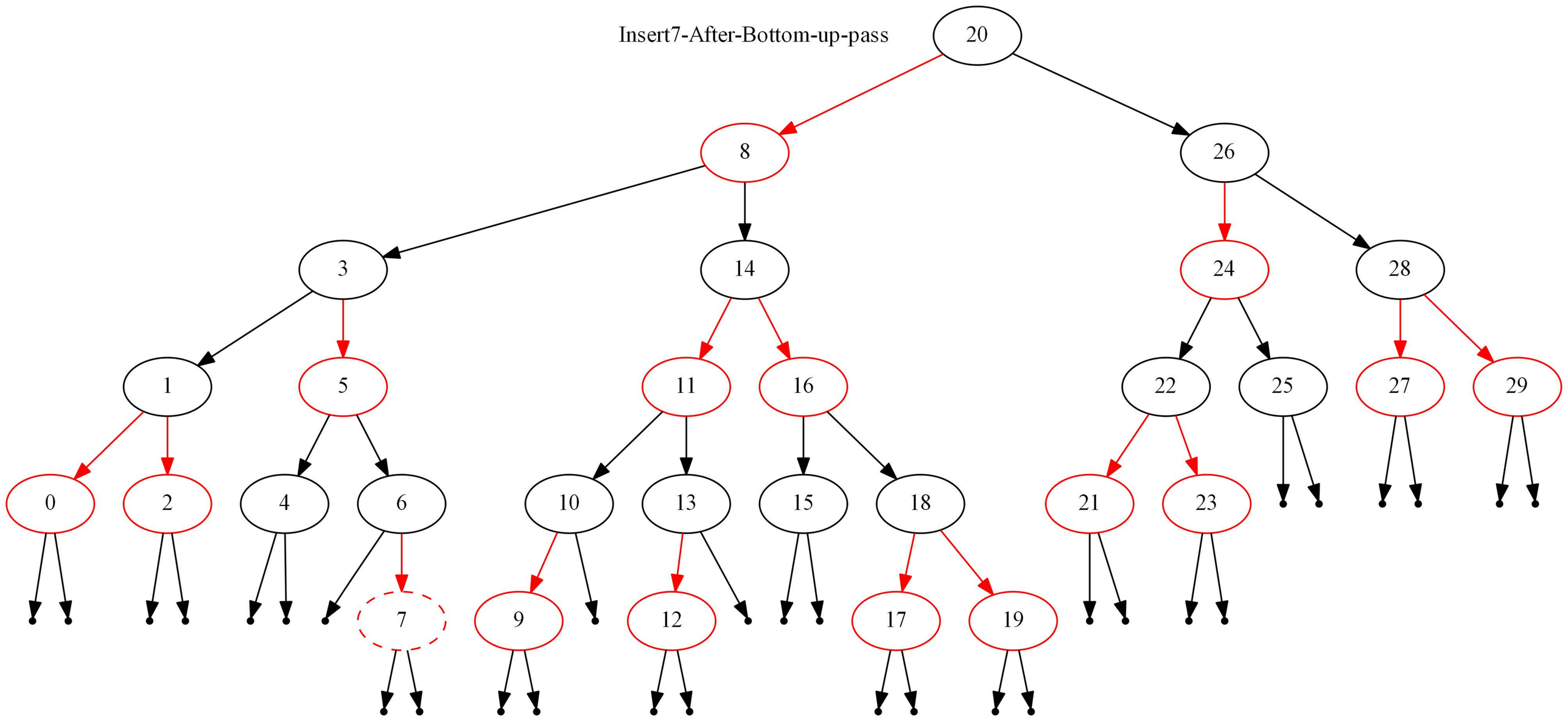

Insert7-Start
20
8
26
3
14
24
28
1
5
11
16
22
25
27
29
0
2
4
6
10
13
15
18
21
23
9
12
17
19


Insert7-After-top-down-pass
20
8
26
3
14
24
28
1
5
11
16
22
25
27
29
0
2
4
6
10
13
15
18
21
23
7
9
12
17
19


Rule (a,b)
20
8
26
3
14
24
28
1
5
11
16
22
25
27
29
0
2
4
6
10
13
15
18
21
23
7
9
12
17
19

Parent is Black. Terminate buttom-up pass.




Insert7-After-Bottom-up-pass
20
8
26
3
14
24
28
1
5
11
16
22
25
27
29
0
2
4
6
10
13
15
18
21
23
7
9
12
17
19