7.2.2.1 Algorithm D

D1. [Initialize.]

D2. [Enter level l.]

(RLINK(0) == 0)? — Yes → Visit x_0, x_1, ... , x_(l-1)

No

D3. [Choose i.] i ∈ {i_1,...,i_t}
node(0)->node(i_1)->...->node(i_t)->0

D4. [Cover i.] cover(i)
x_l <- DLINK(i)

D5. [Try x_l]

(x_l == i)? — Yes

No

p = x_l + 1;
while (p ∈ option has x_l)
{ j = top(p); cover(j);
p=p+1;}   l = l+1;

D6. [Try again.] p = x_l - 1;
while (p ∈ option has x_l)
{ j = top(p); uncover(j); p=p-1;}
i = TOP(x_l); x_l =DLINK(x_l);

D7. [Backtrack.]
uncover(i)

D8. [Leave level l.]

(l == 0)? — No → l = l - 1

Yes

Terminate.

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