ALGORITHM 68
AUGMENTATION
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real procedure Aug(x, y); value x, y; integer x, y;
comment This algorithm makes use of the implicitly defined recursive properties of Algol procedures to compute the augment of x by y, using the basic technique of incrementation by unit step size;
begin Aug := if x = 0 then (if y > x then (Aug(y - 1, x) + 1)
else y)
else Aug(x - 1, y + 1) end Aug

CERTIFICATION OF ALGORITHM 68
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AUGMENTATION was transliterated into BALGOL for the Burroughs 220, and proved successful in a number of test cases. However, the following algorithm has exactly the same effect and is considerably simpler:
real procedure Aug(x, y); value x, y; integer x, y;
begin if x < 0 then L := go to L else Aug := x+y end Aug