

GIVEN  $f[0..N)$ ,  $g[0..N)$  of INT, CONSTRUCT A PROGRAM TO DETERMINE WHETHER THE ARRAYS ARE EXACT COPIES OF EACH OTHER

POST:

$$\langle \forall j: 0 \leq j < n : f.j = g.j \rangle \wedge (f.n \neq g.n \vee (n = N-1 \wedge f.n = g.n))$$

— . —

DETERMINE WHETHER THE WORD "at" IS PRESENT IN THE ARRAY  $g[0..100000)$  OF CHAR

POST:

$$\langle \forall j: 0 \leq j < n : g.j \neq "a" \vee g.(j+1) \neq "t" \rangle \wedge$$

$$\left( \left( g.n = "a" \wedge g.(n+1) = "t" \right) \vee \left( n = 99998 \wedge \left( g.n \neq "a" \vee g.(n+1) \neq "t" \right) \right) \right)$$

— . —



DETERMINE if  $f[0..1000)$  of INT IS ASCENDING  
( $\leq$ )

POST:

$$\langle \forall j : 0 \leq j < n : f.j \leq f.(j+1) \rangle \wedge$$

$$(f.n > f.(n+1) \vee (n = 998 \wedge f.n \leq f.(n+1)))$$

— . —

GIVEN  $f[0..100)$ ,  $g[202..302)$  of CHAR

Does  $g$  CONTAIN THE REVERSE OF  $f$ .

POST:

$$\langle \forall j : 0 \leq j < n : f.j = g.(301-j) \rangle \wedge$$

$$(f.n \neq g.(301-n) \vee (n = 99 \wedge f.n = g.(301-n)))$$