

1959 Paris Nov 12-14,

Mainz Dec. 14-16

Paris, Nov 59

Tuesday forenoon

I. Identification of objects Dreyfus (Chairman)
Bauer

II. Character of declarations, Bottenbruch (Chairman)
Bauer (Rapporteur)

Tuesday afternoon

III. Hidden parameters Stanley Gell (Chairman)
PIN (Rapporteur)

Friday morning

IV. Procedure leading PIN (Chairman)
Rutishauser (Rapporteur)

IV. For - inf.

Wijngaarden (Chairman)
Sambrook (Rapporteur)

Friday morning

VII.

VII.

van der Poel (chairman) PN (Rapporteur)

VI. ~~Simplification of notation~~ 7. 4th ACM

✓ Extension to string handling. 7.46, 7.35

✓ Correct arithmetics. (a+b) ^{4.12}

✓ Boolean expressions. 4.12 3, 4th +

Precedence 4.12

+ Julian Green

5.7

✓ 1

+ McCarthy

() []

(~~Correspondence of declaration~~)

VII. ✓ Input-output-format 4.

✓ Function declarations. 4.

✓ Constant decl. 5. ~~II~~

✓ Dummy statement.

✓ Stop. 4 VII

1) Where to write

~~Dynamic~~ { charak
Static }

2) Limits range

range in write-up
——— time

Interesting questions

Complicated —

Short time.

We feel that development goes this way

But ALGOL 1: No. 1. Static - dynamic No elements are present

in Zürich. Not in Zürich. Agree with Woodger

Upper limit, maximum size must enter.

2) Write-up and time are identical in
procedures.

~~Internal in procedures would~~

Procedure headings

1. Declarations, should they be there?
2. Permissible expressions in array declarations
3. Procedures as input, identifiers
4. Are partly empty procedures permitted?
5. Require in program heading
6. Separators
7. Procedures without parameters
8. Preservation of information
18. Standard functions
- 9.

Requenter
Woodger
Laudin

1.	1028 —
3.	1043 —
4	
5	
6	
7	1103 —
8	1105
9	
10	

array (x) ^{x[]}
x

In order to

begin

(X)

Objections to change of declarations

- 1) The possibilities are not sufficiently explored and clarified, (write-up versus time).
- 2) There are several other important, equally difficult, questions (complex arithmetic, vectors etc.).
- 3) The only hope of any well defined Algol 4

Bottle L
Dijkster
Ne
Vang

Subcommittee on the
Character of Declarations

We recommend:

1) ~~The~~ ALGOL 1 should be only slightly modified in such a way that a) later extensions will not make Algol 1 programs obsolete and b) the ~~single~~ most obvious extensions are included.

2) With a view to later discussion (Algol 2) we include some views on the desirable further extensions

1. Modifications to be included in Algol 1 ~~1~~

1.1. Assuming that the concept of "program" is suitably defined, we recommend: (incl. procedures)
All declarations in the main program should be written at the head of the program

1.2. In side procedures all declarations are written at the beginning, immediately following the begin

1.3. Array declarations inside procedures are allowed to contain expressions, depending on input variables and variables in Require, in their lists defining ~~subscript~~ subscript ranges.

Suggestions ~~Discussion~~ for later extensions

The principal question in connexion with ~~the~~ range-limited declarations is whether the range should be defined by the write-up or the time (the dynamic succession of ~~statements~~ statements). ~~The possibility of a simple way of introducing dynamic arrays~~ The simplicity of introducing declarations inside procedures (both Zurich Algol and proposal 1.3 above) indeed depends on the identity of the write-up and

the dynamic work of ~~the~~ procedures.

In general there are three possibilities open:

~~1~~ Range-limited declarations should have their range defined ^{(either (1) strictly} by the write-up or

(2) by the time succession, or (3) both write-up and time-succession, which implies ~~it~~ (for correct operation) that the ~~range~~ ~~statements~~ statements defining

L,) ()

procedure $r)($
pip () = i ()
pop =:

procedure A (

Require (a , b [] , c () , f :) ;
array (b []

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