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	Documentnumber	L
	Distribution	

Plotting a curve with a printer.

EWD260 - 0

given:  $0 \leq fx(i) < 100$  and  $0 \leq fy(i) < 50$  for  $0 \leq i < 1000$

COMPFIRST

```
begin  
draw: {build; print};  
var image;  
instr build(image), print(image)  
end
```

CLEARFIRST

```
begin  
build: {clear; setmarks};  
instr clear(image), setmarks(image)  
end
```

ISCANNER

```
begin integer i;  
setmarks: {i:= 0; while i < 1000 do {addmark; i plus 1};  
instr addmark(i,image)  
end
```

COMPPPOS

```
begin integer x, y;  
addmark: {x:= fx(i); y:=fy(i); markpos};  
instr markpos(x,y,image)  
end
```

Supersedes doc. nr.	L	N.V. PHILIPS' COMPUTER INDUSTRIE APELDOORN	Date Page
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EWD260 - 1

LINER

```

begin integer j;
  image: {array line[0:49]};
  print: {j:= 49; while j >= 0 do {lineprint(line[j]); j minus 1}};
  clear: {j:= 49; while j >= 0 do {lineclear(line[j]); j minus 1}};
  markpos: {linemark(line[y])};
  type line;
  instr lineprint(line), lineclear(line), linemark(x,line)
end

```

LONGREP

```

begin integer k;
  line: {integer array sym[0:99]};
  lineprint: {k:= 0; while k < 100 do {PRSYM(sym[k]); k plus 1}; NLCR};
  lineclear: {k:= 0; while k < 100 do { sym[k]:= space; k plus 1}};
  linemark: {sym[x]:= mark}
end

```

SHORTREP

```

begin integer k;
  line: {integer f; integer array sym[0:99]};
  lineprint: {k:= 0; while k < f do {PRSYM(sym[k]); k plus 1}; NLCR};
  lineclear: {f:= 0};
  linemark: {while f <= x do {sym[f]:= space; f plus 1};
               sym[x]:= mark}
end

```

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Date

Page