

```
1: program PointerArithmeticTest;
2:
3: uses
4:   sysUtils;
5: procedure Main();
6: var
7:   i   : Integer;
8:   ip  : ^Integer;
9:   ia  : array of ^Integer;
10: begin
11:   SetLength(ia, 3);
12:
13:   for i:= Low(ia) to High(ia) do
14:     begin
15:       New(ia[i]);
16:       ia[i]^ := (i+1)* 10;
17:       WriteLn('#1 ', i, ' :: ', HexStr(Addr(ia[i])), ' ', ia[i]^);
18:     end;
19:   // New(ip);
20:   ip := ia[0];
21:
22:   repeat
23:     WriteLn(HexStr(Addr(ip^)), ' :: ', ip^);
24:     ip := ip + 2;
25:   until ip > ia[High(ia)];
26:
27:   ip := ip - 2;
28:   // writes the value that ip is pointing to. So ia
29:   WriteLn(ip^);
30:
31: end;
32:
33: begin
34:   Main();
35: end.
```