

* ឧបមាគោល PDL មួយសំរាប់ Magic Square ដូចខាងក្រោម:

(20 ពិន្ទុ)

```
PROCEDURE MagicSquare;
  1: TYPE mSq[][] IS ARRAY of INTEGER;
  2: TYPE size, row, col, startV, increaseV, i ARE INTEGER;
  3: DO
  4:   INPUT size;
  5:   IF size<3 OR (size MOD 2)=0 THEN
  6:     OUTPUT "size must be odd and greater than or equal to 3";
  7:   ENDIF
  8: LOOP UNTILL size>=3 AND (size MOD 2)<>0
  9: row=0;
10: col=size/2;
11: i=0;
12: INPUT startV;
13: INPUT increaseV;
14: DO WHILE i< size*size
15:   mSq[row][col]=startV;
16:   row=row-1;
17:   col=col+1;
18:   IF row>=0 AND col<=size-1 THEN
19:     IF mSq[row][col]<> 0 THEN
20:       row=row+2;
21:       col=col-1;
22:     ENDIF
23:   ELSEIF row<0 AND col>size-1 THEN
24:     row=row+2;
25:     col=col-1;
26:   ELSEIF row<0 THEN
27:     row=size-1;
28:   ELSEIF col>size-1 THEN
29:     col=0;
30:   ENDIF
31:   startV=startV+increaseV;
32:   i=i+1;
33: ENDDO
34: OUTPUT mSq;
END MagicSquare
```

តាមរយៈ PDL នេះ ចូរគូស Flow Graph និងរក Independent Path

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