

> $A := 2$	$A := 2$	(1)
> $h := n^2 + n + A$	$h := n^2 + n + 2$	(2)
> for n from 0 to $A - 1$ do <i>ifactor</i> (h); end do ;	(2) (2) ²	(3)
> <i>restart</i>		
> $h := n^2 + n + A$	$h := n^2 + n + A$	(4)
> $A := 3$	$A := 3$	(5)
> for n from 0 to $A - 1$ do <i>ifactor</i> (h); end do ;	(3) (5) (3) ²	(6)
> <i>restart</i>		
> $h := n^2 + n + A$	$h := n^2 + n + A$	(7)
> $A := 5$	$A := 5$	(8)
> for n from 0 to $A - 1$ do <i>ifactor</i> (h); end do ;	(5) (7) (11) (17) (5) ²	(9)
> <i>restart</i>		
> $h := n^2 + n + A$	$h := n^2 + n + A$	(10)
> $A := 11$	$A := 11$	(11)
> for n from 0 to $A - 1$ do <i>ifactor</i> (h); end do ;	(11)	

(13)
(17)
(23)
(31)
(41)
(53)
(67)
(83)
(101)
(11)²

(12)

> restart
> $h := n^2 + n + A$

$h := n^2 + n + A$

(13)

> $A := 17$

$A := 17$

(14)

> **for** n **from** 0 **to** $A - 1$ **do**
 ifactor(h);
end do;

(17)
(19)
(23)
(29)
(37)
(47)
(59)
(73)
(89)
(107)
(127)
(149)
(173)
(199)
(227)
(257)
(17)²

(15)

> restart
> $h := n^2 + n + A$

$h := n^2 + n + A$

(16)

> $A := 41$

$A := 41$

(17)

> **for** n **from** 0 **to** $A - 1$ **do**
 ifactor(h);

end do;

- (41)
- (43)
- (47)
- (53)
- (61)
- (71)
- (83)
- (97)
- (113)
- (131)
- (151)
- (173)
- (197)
- (223)
- (251)
- (281)
- (313)
- (347)
- (383)
- (421)
- (461)
- (503)
- (547)
- (593)
- (641)
- (691)
- (743)
- (797)
- (853)
- (911)
- (971)
- (1033)
- (1097)
- (1163)
- (1231)
- (1301)
- (1373)
- (1447)
- (1523)
- (1601)
- $(41)^2$

- > # 7-31-2014 Matt
- > # This shows by numerical demonstration that Euler's polynomial evaluates a prime values for every lucky number of Euler (2,3,5,11,17,41).
- > #Eulers Polynomial is $n^2 + n + A$.
- > # if $n = 0 \dots A - 2$ and A is lucky then the polynomial is a prime number.
- >