





مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20% مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

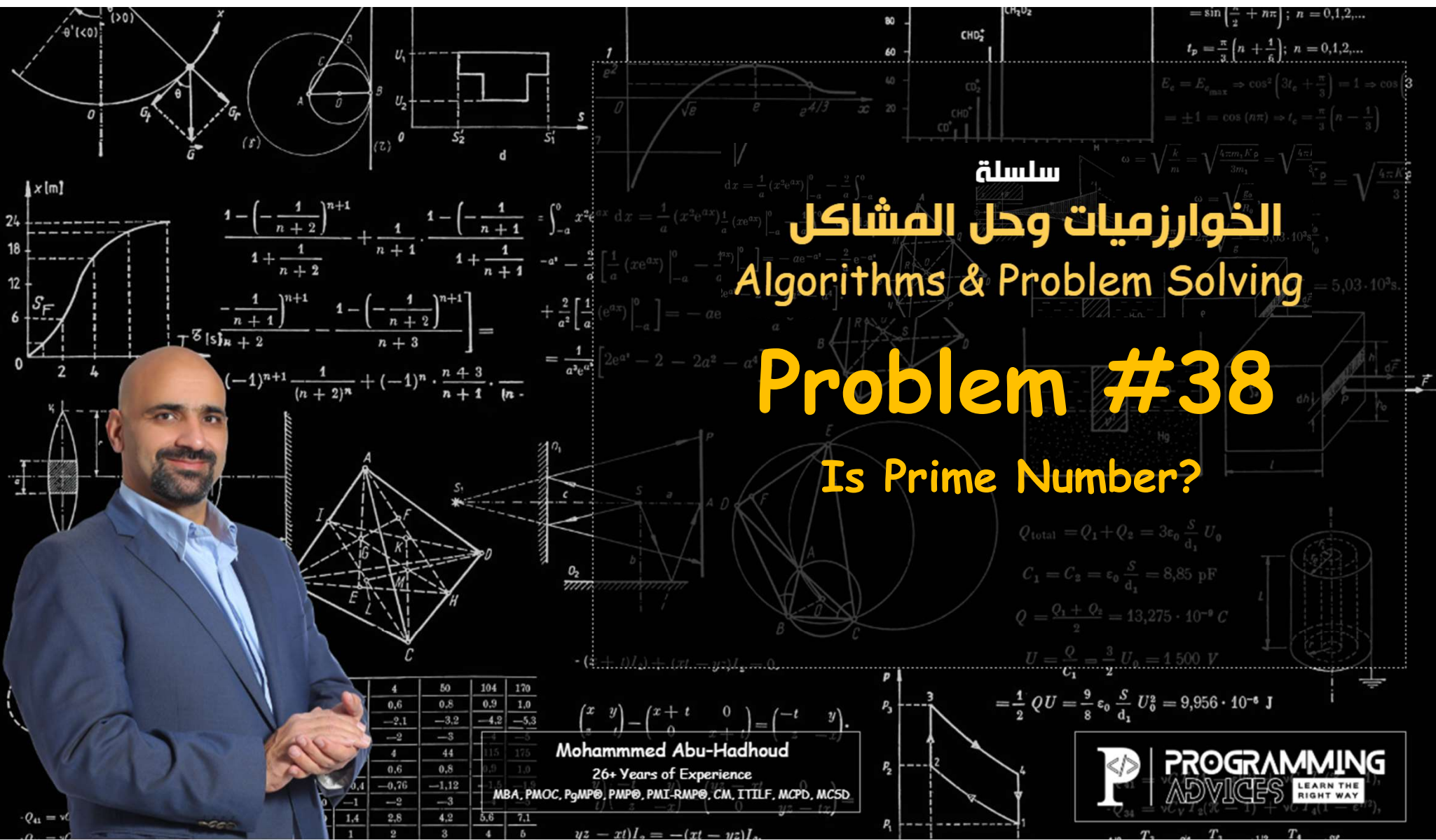
يجب عليك مشاهدة فيديو الدرس كاملا

لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع
لا تنسونا من دعائكم

ProgrammingAdvices.com

Mohammed Abu-Hadhoud





4	50	104	170
0,6	0,8	0,9	1,0
-2,1	-3,2	-4,2	-5,3
-2	-3	-4	-5
4	44	115	175
0,6	0,8	0,9	1,0
0,4	-0,76	-1,12	-1,5
-1	-2	-3	-4
1,4	2,8	4,2	5,6
1	2	3	4

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الخوارزميات وحل المشاكل Algorithms & Problem Solving Problem #38

Is Prime Number?



Problem:

Write a program to read a number and check if it is a prime number or not.

Note: Prime number can only divide on one and on itself.

Input

5

6

3

Outputs➔

Prime

Not Prime

Prime

$\theta'(<0)$
 $\theta(>0)$
 $x[m]$
 $t[s]$
 S_F

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-0.4	-0.76	-1.12	-1.5
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1.4	2.8	4.2	5.6
1	2	3	4
5	6	7	8

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80
60
CHD₂
 $\sin(\frac{n}{2} + n\pi); n = 0, 1, 2, \dots$
 $t_p = \frac{\pi}{3} (n + \frac{1}{3}); n = 0, 1, 2, \dots$
 $\omega = \sqrt{\frac{k}{m}} = \sqrt{\frac{4\pi m_1 K_p}{3m_1}} = \sqrt{\frac{4\pi l}{3}} = 1 \Rightarrow \cos(3)$
 $\omega = \sqrt{\frac{g}{R_0}} = \sqrt{\frac{9.8}{3.10^3}} = 0.056 \text{ s}^{-1}$
 $T = \frac{2\pi}{\omega} = 2\pi \sqrt{\frac{R_0}{g}} = 5.03 \cdot 10^3 \text{ s}$

الخوارزميات وحل المشاكل
Algorithms & Problem Solving
Solution

$$\frac{1 - (-\frac{1}{n+2})^{n+1}}{1 + \frac{1}{n+2}} + \frac{1}{n+1} \cdot \frac{1 - (-\frac{1}{n+1})^{n+1}}{1 + \frac{1}{n+1}} = \int_{-a}^0 x^2 e^{ax} dx = \frac{1}{a} (x^2 e^{ax}) \Big|_{-a}^0 - \frac{2}{a} \int_{-a}^0 x e^{ax} dx$$

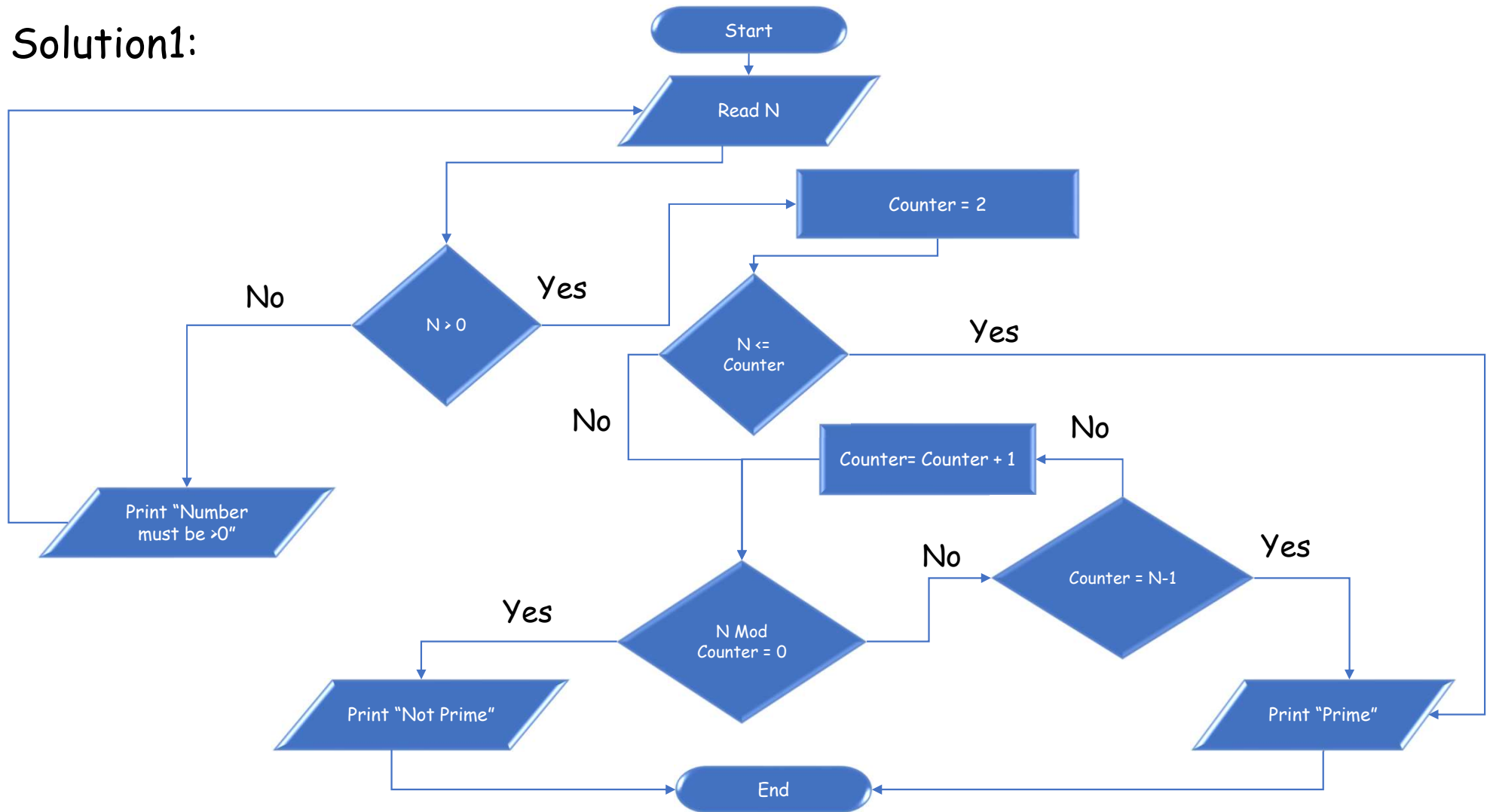
$$= \frac{1}{a^2} [2e^{a^3} - 2 - 2a^2 - a^4]$$

$Q_{total} = Q_1 + Q_2 = 3\epsilon_0 \frac{S}{d_1} U_0$
 $C_1 = C_2 = \epsilon_0 \frac{S}{d_1} = 8,85 \text{ pF}$
 $Q = \frac{Q_1 + Q_2}{2} = 13,275 \cdot 10^{-9} \text{ C}$
 $U = \frac{Q}{C_1} = \frac{3}{2} U_0 = 1,500 \text{ V}$
 $= \frac{1}{2} QU = \frac{9}{8} \epsilon_0 \frac{S}{d_1} U_0^2 = 9,956 \cdot 10^{-6} \text{ J}$

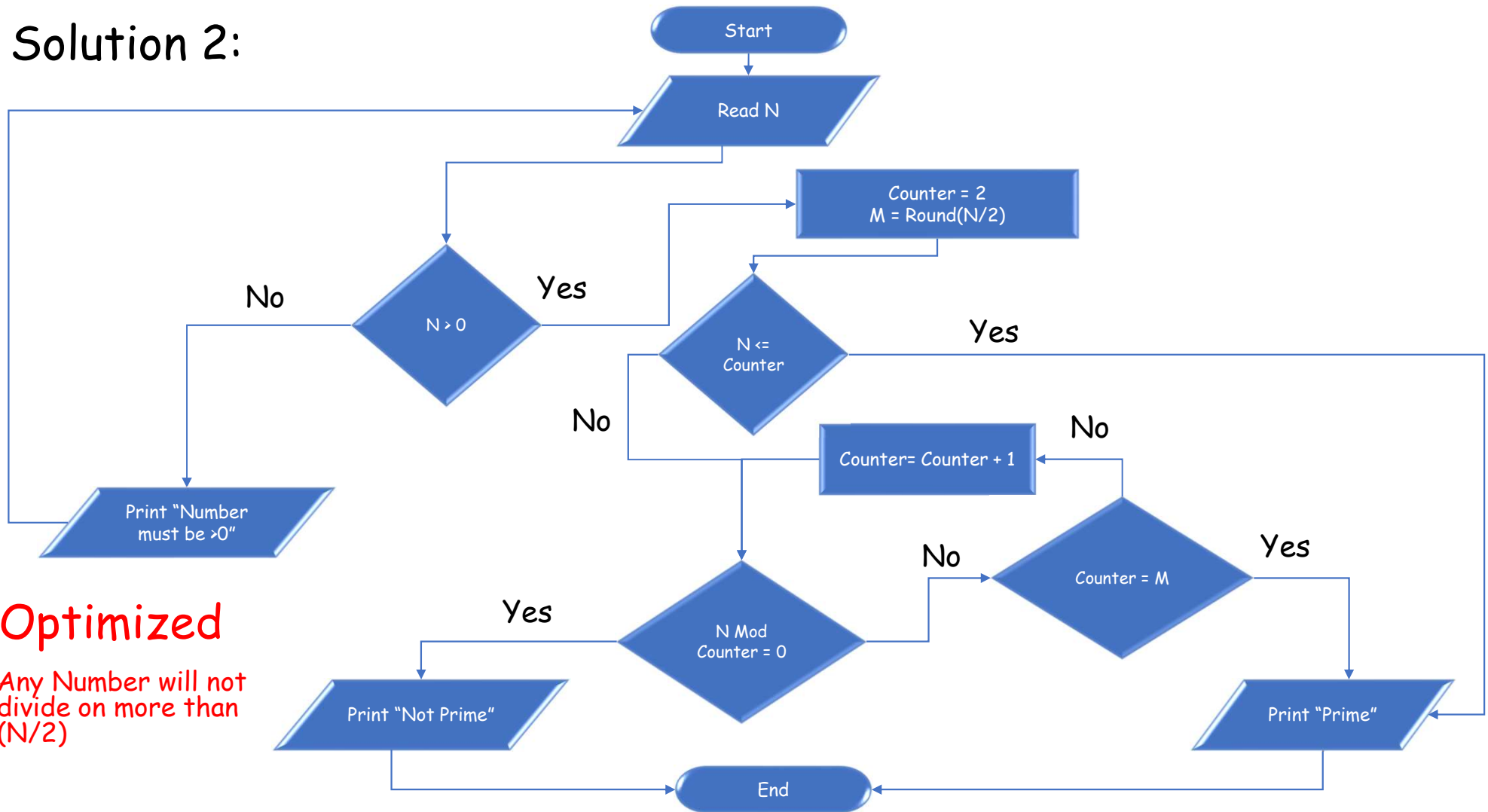
$(x \ y) - (x+t \ 0) = (-t \ y)$
 $yz - xt)I_0 = -(xt - yz)I_0$

PROGRAMMING
ADVICES
 LEARN THE RIGHT WAY

Solution1:



Solution 2:



Optimized

Any Number will not divide on more than $(N/2)$



Thank You

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