

MJN Prime numbers-Algorithm (Multiples of 10-Fold of Prime numbers)

It is well known that you do not have to try with prime numbers greater than the square root (\sqrt{n}) of the number one examines.

Tal	Explanation to MJN Prime numbers-Algorithm	Is it Prime?
91	3: The sum of its digits is not divisible by 3. 7: $91 - 70 = 21$, that is divisible by 7.	No
73	3: The sum of its digits is not divisible by 3. 7: $73 - 70 = 3$, this is not divisible by 7.	Yes
97	3: The sum of its digits is not divisible by 3. 7: $97 - 70 = 27$, this is not divisible by 7.	Yes
119	3: The sum of its digits is not divisible by 3. 7: $119 - 70 = 49$, that is divisible by 7. or (119 - 140 = 21) , that is divisible by 7.	No
101	3: The sum of its digits is not divisible by 3. 7: $101 - 70 = 31$, that is not divisible by 7.	Yes
133	3: The sum of its digits is not divisible by 3. 7: $133 - 70 = 63$, that is divisible by 7 or (133 - 140 = -7) , that is divisible by 7.	No
127	3: The sum of its digits is not divisible by 3. 7: $127 - 70 = 57$, that is not divisible by 7. or (127 - 140 = -13) , that is not divisible by 7. 11: $127 - 110 = 17$, that is not divisible by 11.	Yes
121	3: The sum of its digits is not divisible by 3. 7: $121 - 70 = 51$, that is not divisible by 7. 11: $121 - 110 = 11$, that is divisible by 11.	No
143	3: The sum of its digits is not divisible by 3. 7: $143 - 70 = 73$, that is not divisible by 7. or (143 - 140 = 3) , that is not divisible by 7. 11: $143 - 110 = 33$, that is divisible by 11.	No
137	3: The sum of its digits is not divisible by 3. 7: $137 - 70 = 67$, that is not divisible by 7. or (137 - 140 = -3) , that is not divisible by 7. 11: $137 - 110 = 27$, that is not divisible by 11.	Yes
169	3: The sum of its digits is not divisible by 3. 7: $169 - 70 = 99$, that is not divisible by 7. 11: $169 - 110 = 59$, that is not divisible by 11.	No

	13: $169 - 130 = 39$, that is divisible by 13.	
151	3: The sum of its digits is not divisible by 3. 7: $151 - 140 = 11$, that is not divisible by 7. 11: $151 - 110 = 41$, that is not divisible by 11.	Yes
203	3: The sum of its digits is not divisible by 3. 7: $203 - 140 = 63$, that is divisible by 7. or (203 - 210 = -7) , that is divisible by 7.	No
187	3: The sum of its digits is not divisible by 3. 7: $187 - 140 = 47$, that is not divisible by 7. 11: $187 - 110 = 77$, that is divisible by 11.	No
181	3: The sum of its digits is not divisible by 3. 7: $181 - 140 = 41$, that is not divisible by 7. 11: $181 - 110 = 71$, that is not divisible by 11. 13: $181 - 130 = 51$, that is not divisible by 13.	Yes
253	3: The sum of its digits is not divisible by 3. 7: $253 - 210 = 43$, that is not divisible by 7. 11: $253 - 220 = 33$, that is divisible by 11.	No
197	3: The sum of its digits is not divisible by 3. 7: $197 - 140 = 57$, that is not divisible by 7. or (197 - 210 = -13) , that is not divisible by 7. 11: $197 - 110 = 87$, that is not divisible by 11. or (197 - 220 = -23) , that is not divisible by 11. 13: $197 - 130 = 67$, that is not divisible by 13.	Yes
209	3: The sum of its digits is not divisible by 3. 7: $209 - 140 = 69$, that is not divisible by 7. 11: $209 - 110 = 99$, that is divisible by 11. or (209 - 220 = -11) , that is divisible by 11.	No
221	3: The sum of its digits is not divisible by 3. 7: $221 - 210 = 11$, that is not divisible by 7. 11: $221 - 220 = 1$, that is not divisible by 11. 13: $221 - 130 = 91$, that is divisible by 13. or (221 - 260 = -39) , that is divisible by 13.	No
323	3: The sum of its digits is not divisible by 3. 7: $323 - 280 = 43$, that is not divisible by 7. or (323 - 350 = -27) , that is not divisible by 7. 11: $323 - 220 = 103$, that is not divisible by 11.	No

	<p>or (323 - 330 = -7, that is not divisible by 11). 13: $323 - 260 = 63$, that is not divisible by 13. or (323 - 390 = -67), that is not divisible by 13. 17: $340 - 323 = 17$, that is divisible by 17. or (323 - 340 = -17, that is divisible by 17).</p>	
227	<p>3: The sum of its digits is not divisible by 3. 7: $227 - 210 = 17$, that is not divisible by 7. 11: $227 - 220 = 7$, that is not divisible by 11. 13: $227 - 130 = 97$, that is not divisible by 13. (130 - 97 = 33, which is not divisible by 13).</p>	Yes
301	<p>3: The sum of its digits is not divisible by 3. 7: $301 - 280 = 21$, that is divisible by 7. or (301 - 350 = -49), that is divisible by 7.</p>	No
343	<p>3: The sum of its digits is not divisible by 3. 7: $301 - 280 = 21$, that is divisible by 7. or (343 - 350 = -7), that is divisible by 7.</p>	No
247	<p>3: The sum of its digits is not divisible by 3. 7: $247 - 210 = 37$, that is not divisible by 7. 11: $247 - 220 = 27$, that is not divisible by 11. 13: $260 - 247 = 13$, that is divisible by 13. or (247 - 260 = -13, that is divisible by 13).</p>	No
289	<p>3: The sum of its digits is not divisible by 3. 7: $289 - 280 = 9$, that is not divisible by 7. 11: $289 - 220 = 69$, that is not divisible by 11. 13: $289 - 260 = 29$, that is not divisible by 13. 17: $289 - 340 = -51$, that is divisible by 17.</p>	No
311	<p>3: The sum of its digits is not divisible by 3. 7: $311 - 280 = 31$, that is not divisible by 7. 11: $330 - 311 = 19$, that is not divisible by 11. or (311 - 330 = -19, that is not divisible by 11). 13: $311 - 260 = 51$, that is not divisible by 13. 17: $340 - 311 = 29$, that is not divisible by 17. (311 - 340 = -29, that is not divisible by 17).</p>	Yes
403	<p>3: The sum of its digits is not divisible by 3. 7: $403 - 350 = 53$, that is not divisible by 7. 11: $440 - 403 = 37$, that is not divisible by 11.</p>	No

	or (403 - 440 = -37, that is not divisible by 11). 13: 403 - 390 = 13 , that is divisible by 13.	
287	3: The sum of its digits is not divisible by 3. 7: 287 - 280 = 7 , that is divisible by 7.	No
349	3: The sum of its digits is not divisible by 3. 7: 350 - 349 = 1 , that is not divisible by 7. 11: 349 - 330 = 19 , that is not divisible by 11. 13: 390 - 349 = 41 , that is not divisible by 13. 17: 349 - 340 = 9 , that is not divisible by 17.	Yes
341	3: The sum of its digits is not divisible by 3. 7: 350 - 341 = 9 , that is not divisible by 7. 11: 341 - 330 = 11 , that is divisible by 11.	No
413	3: The sum of its digits is not divisible by 3. 7: 413 - 350 = 63 , that is divisible by 7. or (413 - 420 = -7 , that is divisible by 7).	No
377	3: The sum of its digits is not divisible by 3. 7: 377 - 350 = 27 , that is not divisible by 7. 11: 377 - 330 = 47 , that is not divisible by 11. 13: 377 - 390 = -13 , that is divisible by 13.	No
399	3: The sum of its digits is not divisible by 3.	No
361	3: The sum of its digits is not divisible by 3. 7: 361 - 350 = 11 , that is not divisible by 7. 11: 361 - 330 = 31 , that is not divisible by 11. 13: 361 - 390 = -29 , that is not divisible by 13. 17: 361 - 340 = 21 , that is not divisible by 17. 19: 361 - 380 = -19 , that is divisible by 19.	No
433	3: The sum of its digits is not divisible by 3. 7: 433 - 420 = 13 , that is not divisible by 7. 11: 433 - 440 = -7 , that is not divisible by 11. 13: 433 - 390 = 43 , that is not divisible by 13. 17: 433 - 340 = 93 , that is not divisible by 17. or (433 - 510 = -77 , that is not divisible by 17).	Yes
407	3: The sum of its digits is not divisible by 3. 7: 407 - 350 = 57 , that is not divisible by 7. 11: 440 - 407 = 33 , that is divisible by 11.	No
429	3: The sum of its digits is divisible by 3.	No
391	3: The sum of its digits is not divisible by 3. 7: 391 - 350 = 41 , that is not divisible by 7. 11: 391 - 330 = 61 , that is not divisible by 11.	No

	13: $391 - 390 = 1$, that is not divisible by 13. 17: $391 - 340 = 51$, that is divisible by 17.	
443	3: The sum of its digits is not divisible by 3. 7: $443 - 420 = 23$, that is not divisible by 7. 11: $443 - 440 = 3$, that is not divisible by 11. 13: $443 - 390 = 53$, that is not divisible by 13. 17: $443 - 340 = 103$, that is not divisible by 17. or ($443 - 510 = -67$, that is not divisible by 17). 19: $443 - 380 = 63$, that is not divisible by 19.	Yes
427	3: The sum of its digits is not divisible by 3. 7: $427 - 420 = 7$, that is divisible by 7.	No
439	3: The sum of its digits is not divisible by 3. 7: $439 - 420 = 19$, that is not divisible by 7. 11: $440 - 439 = 1$, that is not divisible by 11. 13: $439 - 390 = 49$, that is not divisible by 13. 17: $439 - 340 = 99$, that is not divisible by 17. 19: $439 - 380 = 59$, that is not divisible by 19.	Yes
451	3: The sum of its digits is not divisible by 3. 7: $451 - 420 = 31$, that is not divisible by 7. 11: $451 - 440 = 11$, that is divisible by 11.	No
473	3: The sum of its digits is not divisible by 3. 7: $473 - 420 = 53$, that is not divisible by 7. 11: $473 - 440 = 33$, that is divisible by 11.	No
437	3: The sum of its digits is not divisible by 3. 7: $437 - 420 = 17$, that is not divisible by 7. 11: $440 - 437 = 3$, that is not divisible by 11. 13: $437 - 390 = 47$, that is not divisible by 13. 17: $437 - 340 = 97$, that is not divisible by 17. 19: $437 - 380 = 57$, that is divisible by 19.	No
479	3: The sum of its digits is not divisible by 3. 7: $479 - 420 = 59$, that is not divisible by 7. 11: $479 - 440 = 39$, that is not divisible by 11. 13: $479 - 390 = 89$, that is not divisible by 13. or ($479 - 520 = -41$, that is not divisible by 13). 17: $479 - 510 = 31$, that is not divisible by 17. 19: $479 - 570 = -91$, that is not divisible by 19.	Yes
481	3: The sum of its digits is not divisible by 3. 7: $481 - 420 = 61$, that is not divisible by 7. 11: $481 - 440 = 41$, that is not divisible by 11. 13: $481 - 390 = 91$, that is divisible by 13. or	No

	(481 - 520 = -39, that is divisible by 13).	
493	3: The sum of its digits is not divisible by 3. 7: 493 - 420 = 73, that is not divisible by 7. 11: 493 - 440 = 53, that is not divisible by 11. 13: 493 - 390 = 103, that is not divisible by 13. or (493 - 520 = -27, that is not divisible by 13). 17: 493 - 510 = -17, that is divisible by 17.	No
497	3: The sum of its digits is not divisible by 3. 7: 497 - 490 = 7, that is divisible by 7.	No
489	3: The sum of its digits is divisible by 3.	No
499	3: The sum of its digits is not divisible by 3. 7: 499 - 420 = 79, that is not divisible by 7. 11: 499 - 440 = 59, that is not divisible by 11. 13: 499 - 520 = -21, that is not divisible by 13. 17: 499 - 510 = -11, that is not divisible by 17. 19: 499 - 570 = -71, that is not divisible by 19.	Yes

511	3: The sum of its digits is not divisible by 3. 7: $511 - 490 = 21$, that is divisible by 7.	No
533	3: The sum of its digits is not divisible by 3. 7: $533 - 490 = 43$, that is not divisible by 7. 11: $550 - 533 = 17$, that is not divisible by 11. 13: $533 - 520 = 13$, that is divisible by 13. or $(520 - 533 = -13$, that is divisible by 13).	No
527	3: The sum of its digits is not divisible by 3. 7: $527 - 490 = 73$, that is not divisible by 7. 11: $550 - 527 = 23$, that is not divisible by 11. 13: $527 - 520 = 7$, that is not divisible by 13. 17: $527 - 510 = 17$, that is divisible by 17.	No
529	3: The sum of its digits is not divisible by 3. 7: $560 - 529 = 31$, that is not divisible by 7. 11: $550 - 529 = 21$, that is not divisible by 11. 13: $529 - 520 = 9$, that is not divisible by 13. 17: $529 - 510 = 19$, that is not divisible by 17. 19: $570 - 529 = 41$, that is divisible by 19. 23: $529 - 460 = 69$, that is divisible by 23.	No
551	3: The sum of its digits is not divisible by 3. 7: $560 - 551 = 9$, that is not divisible by 7. 11: $551 - 550 = 1$, that is not divisible by 11. 13: $551 - 520 = 31$, that is not divisible by 13. 17: $551 - 510 = 41$, that is not divisible by 17. 19: $570 - 551 = 19$, that is divisible by 19.	No
563	3: The sum of its digits is not divisible by 3. 7: $563 - 560 = 3$, that is not divisible by 7. 11: $563 - 550 = 13$, that is not divisible by 11. 13: $563 - 520 = 43$, that is not divisible by 13. 17: $563 - 510 = 53$, that is not divisible by 17. 19: $570 - 563 = 7$, that is not divisible by 19. 23: $563 - 460 = 103$, that is not divisible by 23 or $563 - 575 = -12$, that is not divisible by 23.	Yes
597	3: The sum of its digits is divisible by 3.	No
599	3: The sum of its digits is not divisible by 3. 7: $599 - 560 = 39$, that is not divisible by 7. 11: $599 - 550 = 49$, that is not divisible by 11. 13: $599 - 520 = 79$, that is not divisible by 13. 17: $599 - 510 = 89$, that is not divisible by 17. 19: $599 - 570 = 29$, that is not divisible by 19.	Yes

	23: $690 - 599 = 91$, that is divisible by 23 or $599 - 575 = 24$, that is not divisible by 23	
611	3: The sum of its digits is not divisible by 3. 7: $630 - 611 = 19$, that is not divisible by 7. 11: $660 - 611 = 49$, that is not divisible by 11. 13: $611 - 650 = 39$, that is divisible by 13.	No
623	3: The sum of its digits is not divisible by 3. 7: $630 - 623 = 7$, that is divisible by 7.	No
667	3: The sum of its digits is not divisible by 3. 7: $667 - 630 = 47$, that is not divisible by 7. 11: $667 - 660 = 7$, that is not divisible by 11. 13: $667 - 650 = 17$, that is not divisible by 13. 17: $680 - 667 = 13$, that is not divisible by 17. 19: $667 - 665 = 2$, that is not divisible by 19. 23: $690 - 667 = 23$, that is divisible by 23.	No
671	3: The sum of its digits is not divisible by 3. 7: $671 - 630 = 41$, that is not divisible by 7. 11: $671 - 660 = 11$, that is divisible by 11.	No
703	3: The sum of its digits is not divisible by 3. 7: $703 - 630 = 73$, that is not divisible by 7. 11: $703 - 660 = 43$, that is not divisible by 11. 13: $703 - 650 = 53$, that is not divisible by 13. 17: $703 - 680 = 23$, that is not divisible by 17. 19: $760 - 703 = 57$, that is divisible by 19.	No
709	3: The sum of its digits is not divisible by 3. 7: $709 - 700 = 9$, that is not divisible by 7. 11: $709 - 660 = 49$, that is not divisible by 11. 13: $709 - 650 = 59$, that is not divisible by 13. 17: $709 - 680 = 29$, that is not divisible by 17. 19: $760 - 709 = 51$, that is not divisible by 19. 23: $709 - 690 = 19$, that is not divisible by 23.	Yes
721	3: The sum of its digits is not divisible by 3. 7: $721 - 700 = 21$, that is divisible by 7.	No
737	3: The sum of its digits is not divisible by 3. 7: $737 - 700 = 37$, that is not divisible by 7. 11: $737 - 660 = 77$, that is divisible by 11.	No
779	3: The sum of its digits is not divisible by 3. 7: $779 - 700 = 79$, that is not divisible by 7. 11: $779 - 770 = 9$, that is not divisible by 11. 13: $780 - 779 = 1$, that is not divisible by 13. 17: $779 - 680 = 99$, that is not divisible by 17. 19: $779 - 760 = 19$, that is divisible by 19.	No

733	<p>3: The sum of its digits is not divisible by 3. 7: $733 - 700 = 33$, that is not divisible by 7. 11: $733 - 660 = 73$, that is not divisible by 11. 13: $733 - 650 = 83$, that is not divisible by 13.</p> <p>or</p> <p>($733 - 780 = -47$), that is not divisible by 13. 17: $733 - 680 = 53$, that is not divisible by 17. 19: $760 - 733 = 27$, that is not divisible by 19. 23: $733 - 690 = 43$, that is divisible by 23.</p>	Yes
781	<p>3: The sum of its digits is not divisible by 3. 7: $781 - 700 = 81$, that is not divisible by 7. 11: $781 - 770 = 11$, that is divisible by 11.</p>	No
757	<p>3: The sum of its digits is not divisible by 3. 7: $757 - 700 = 57$, that is not divisible by 7. 11: $757 - 660 = 97$, that is not divisible by 11.</p> <p>or</p> <p>($757 - 770 = -13$), that is not divisible by 11. 13: $780 - 757 = 23$, that is not divisible by 13. 17: $757 - 680 = 77$, that is not divisible by 17. 19: $760 - 757 = 3$, that is not divisible by 19. 23: $757 - 690 = 67$, that is divisible by 23.</p>	Yes
713	<p>3: The sum of its digits is not divisible by 3. 7: $713 - 700 = 13$, that is not divisible by 7. 11: $713 - 660 = 53$, that is not divisible by 11. 13: $780 - 713 = 67$, that is not divisible by 13. 17: $713 - 680 = 33$, that is not divisible by 17. 19: $760 - 713 = 47$, that is not divisible by 19. 23: $713 - 690 = 23$, that is divisible by 23.</p>	No
799	<p>3: The sum of its digits is not divisible by 3. 7: $799 - 700 = 99$, that is not divisible by 7. 11: $799 - 770 = 29$, that is not divisible by 11. 13: $799 - 780 = 19$, that is not divisible by 13. 17: $850 - 799 = 51$, that is divisible by 17.</p>	No
791	<p>3: The sum of its digits is not divisible by 3. 7: $791 - 700 = 91$, that is divisible by 7.</p> <p>or</p> <p>($791 - 770 = 21$), that is divisible by 7.</p>	No
803	<p>3: The sum of its digits is not divisible by 3. 7: $803 - 770 = 33$, that is not divisible by 7. 11: $803 - 770 = 33$, that is divisible by 11.</p>	No
817	<p>3: The sum of its digits is divisible by 3. 7: $817 - 770 = 47$, that is not divisible by 7. 11: $817 - 770 = 47$, that is not divisible by 11.</p>	No

	<p>13: $817 - 780 = 37$, that is not divisible by 13. 17: $850 - 817 = 33$, that is not divisible by 17. 19: $817 - 760 = 57$, that is divisible by 19.</p>	
821	<p>3: The sum of its digits is not divisible by 3. 7: $821 - 770 = 51$, that is not divisible by 7. 11: $821 - 770 = 51$, that is not divisible by 11. 13: $821 - 780 = 41$, that is not divisible by 13. 17: $850 - 821 = 29$, that is not divisible by 17. 19: $821 - 760 = 61$, that is not divisible by 19. 23: $920 - 821 = 99$, that is divisible by 23.</p>	Yes
841	<p>3: The sum of its digits is not divisible by 3. 7: $841 - 770 = 71$, that is not divisible by 7. or $(841 - 840 = -1)$, that is not divisible by 7. 11: $841 - 770 = 71$, that is not divisible by 11. 13: $841 - 780 = 61$, that is not divisible by 13. 17: $850 - 841 = 9$, that is not divisible by 17. 19: $841 - 760 = 81$, that is not divisible by 19. 23: $920 - 841 = 79$, that is not divisible by 23. 29: $870 - 841 = 29$, that is divisible by 29.</p>	No
901	<p>3: The sum of its digits is not divisible by 3. 7: $901 - 840 = 61$, that is not divisible by 7. 11: $901 - 880 = 21$, that is not divisible by 11. 13: $910 - 901 = 9$, that is not divisible by 13. 17: $901 - 850 = 51$, that is divisible by 17.</p>	No
923	<p>3: The sum of its digits is not divisible by 3. 7: $923 - 910 = 13$, that is not divisible by 7. 11: $923 - 880 = 43$, that is not divisible by 11. 13: $923 - 910 = 13$, that is divisible by 13.</p>	No
977	<p>3: The sum of its digits is not divisible by 3. 7: $977 - 910 = 67$, that is not divisible by 7. 11: $990 - 977 = 13$, that is not divisible by 11. 13: $977 - 910 = 67$, that is not divisible by 13. 17: $977 - 850 = -127$, that is not divisible by 17. or $(170 - 127 = 43)$, that is not divisible by 17. or $977 - 1020 = -43$, that is not divisible by 17. 19: $977 - 950 = 27$, that is not divisible by 19. 23: $977 - 920 = 57$, that is not divisible by 23. 29: $977 - 870 = 107$, that is divisible by 29. <i>Half of 290 minus 107 is 38 that</i> is not divisible by 29. or $(977 - 1016 = -39)$, that is not divisible by 29.</p>	Yes

	31: $977 - 930 = 47$, that is not divisible by 31.	
891	3: The sum of its digits is divisible by 3.	No
973	3: The sum of its digits is not divisible by 3. 7: $973 - 910 = 63$, that is divisible by 7.	No
987	3: The sum of its digits is divisible by 3.	No
979	3: The sum of its digits is not divisible by 3. 7: $979 - 910 = 69$, that is not divisible by 7. 11: $990 - 979 = 11$, that is divisible by 11.	No
991	3: The sum of its digits is not divisible by 3. 7: $991 - 910 = 81$, that is not divisible by 7. 11: $991 - 990 = 1$, that is not divisible by 11. 13: $991 - 910 = 81$, that is not divisible by 13. 17: $991 - 850 = 141$, that is not divisible by 17. or $(170 - 141 = 29)$, that is not divisible by 17. or $(977 - 1020) = -43$, that is not divisible by 17. 19: $991 - 950 = 41$, that is not divisible by 19. 23: $991 - 920 = 71$, that is not divisible by 23. 29: $991 - 870 = 121$, that is divisible by 29. Half of 290 minus 121 is 24 that is not divisible by 29. or $(977 - 1016 = -39)$, that is not divisible by 29. 31: $991 - 930 = 61$, that is not divisible by 31.	Yes
961	3: The sum of its digits is not divisible by 3. 7: $961 - 910 = 51$, that is not divisible by 7. 11: $990 - 961 = 29$, that is not divisible by 11. 13: $961 - 910 = 51$, that is not divisible by 13. 17: $961 - 850 = 111$, that is not divisible by 17. 19: $961 - 950 = 11$, that is not divisible by 19. 23: $961 - 920 = 41$, that is not divisible by 23. 29: $961 - 870 = 91$, that is not divisible by 29. Half of 290 minus 91 is 54 that is not divisible by 29. 31: $961 - 930 = 31$, that is divisible by 31.	No
981	3: The sum of its digits is divisible by 3.	No
989	3: The sum of its digits is not divisible by 3. 7: $989 - 910 = 79$, that is not divisible by 7. 11: $990 - 989 = 1$, that is not divisible by 11. 13: $989 - 910 = 79$, that is not divisible by 13. 17: $989 - 850 = 139$, that is not divisible by 17. $(170 - 139 = 31)$, that is not divisible by 17. or $989 - 1020 = -31$, that is not divisible by 17.	No

	19: $989 - 950 = 39$, that is not divisible by 19. 23: $989 - 920 = 69$, that is divisible by 23.	
999	3: The sum of its digits is divisible by 3.	No