

تاریخ زهره شمس / طبق شماره ۱. دهم دهم A

الف) $E_n = 2n^2 - 1 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$n=1 \rightarrow 1$
 $n=2 \rightarrow 3$
 $n=3 \rightarrow 5$
 $n=4 \rightarrow 7$
 $n=5 \rightarrow 9$
 $n=6 \rightarrow 11$

ب) $E_n = \frac{2n+1}{n+2} \rightarrow \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}, \frac{11}{12}, \frac{13}{14}, \frac{15}{16}, \frac{17}{18}, \frac{19}{20}, \frac{21}{22}, \frac{23}{24}, \frac{25}{26}, \frac{27}{28}, \frac{29}{30}, \frac{31}{32}, \frac{33}{34}, \frac{35}{36}, \frac{37}{38}, \frac{39}{40}, \frac{41}{42}, \frac{43}{44}, \frac{45}{46}, \frac{47}{48}, \frac{49}{50}, \frac{51}{52}, \frac{53}{54}, \frac{55}{56}, \frac{57}{58}, \frac{59}{60}, \frac{61}{62}, \frac{63}{64}, \frac{65}{66}, \frac{67}{68}, \frac{69}{70}, \frac{71}{72}, \frac{73}{74}, \frac{75}{76}, \frac{77}{78}, \frac{79}{80}, \frac{81}{82}, \frac{83}{84}, \frac{85}{86}, \frac{87}{88}, \frac{89}{90}, \frac{91}{92}, \frac{93}{94}, \frac{95}{96}, \frac{97}{98}, \frac{99}{100}$

$n=1 \rightarrow \frac{3}{4}$
 $n=2 \rightarrow \frac{5}{6}$
 $n=3 \rightarrow \frac{7}{8}$
 $n=4 \rightarrow \frac{9}{10}$
 $n=5 \rightarrow \frac{11}{12}$

الف) $E_n = \frac{(-1)^n}{\sqrt{n+2}} \rightarrow \frac{-1}{\sqrt{3}}, \frac{1}{\sqrt{4}}, \frac{-1}{\sqrt{5}}, \frac{1}{\sqrt{6}}, \frac{-1}{\sqrt{7}}, \frac{1}{\sqrt{8}}, \frac{-1}{\sqrt{9}}, \frac{1}{\sqrt{10}}, \frac{-1}{\sqrt{11}}, \frac{1}{\sqrt{12}}, \frac{-1}{\sqrt{13}}, \frac{1}{\sqrt{14}}, \frac{-1}{\sqrt{15}}, \frac{1}{\sqrt{16}}, \frac{-1}{\sqrt{17}}, \frac{1}{\sqrt{18}}, \frac{-1}{\sqrt{19}}, \frac{1}{\sqrt{20}}, \frac{-1}{\sqrt{21}}, \frac{1}{\sqrt{22}}, \frac{-1}{\sqrt{23}}, \frac{1}{\sqrt{24}}, \frac{-1}{\sqrt{25}}, \frac{1}{\sqrt{26}}, \frac{-1}{\sqrt{27}}, \frac{1}{\sqrt{28}}, \frac{-1}{\sqrt{29}}, \frac{1}{\sqrt{30}}, \frac{-1}{\sqrt{31}}, \frac{1}{\sqrt{32}}, \frac{-1}{\sqrt{33}}, \frac{1}{\sqrt{34}}, \frac{-1}{\sqrt{35}}, \frac{1}{\sqrt{36}}, \frac{-1}{\sqrt{37}}, \frac{1}{\sqrt{38}}, \frac{-1}{\sqrt{39}}, \frac{1}{\sqrt{40}}, \frac{-1}{\sqrt{41}}, \frac{1}{\sqrt{42}}, \frac{-1}{\sqrt{43}}, \frac{1}{\sqrt{44}}, \frac{-1}{\sqrt{45}}, \frac{1}{\sqrt{46}}, \frac{-1}{\sqrt{47}}, \frac{1}{\sqrt{48}}, \frac{-1}{\sqrt{49}}, \frac{1}{\sqrt{50}}, \frac{-1}{\sqrt{51}}, \frac{1}{\sqrt{52}}, \frac{-1}{\sqrt{53}}, \frac{1}{\sqrt{54}}, \frac{-1}{\sqrt{55}}, \frac{1}{\sqrt{56}}, \frac{-1}{\sqrt{57}}, \frac{1}{\sqrt{58}}, \frac{-1}{\sqrt{59}}, \frac{1}{\sqrt{60}}, \frac{-1}{\sqrt{61}}, \frac{1}{\sqrt{62}}, \frac{-1}{\sqrt{63}}, \frac{1}{\sqrt{64}}, \frac{-1}{\sqrt{65}}, \frac{1}{\sqrt{66}}, \frac{-1}{\sqrt{67}}, \frac{1}{\sqrt{68}}, \frac{-1}{\sqrt{69}}, \frac{1}{\sqrt{70}}, \frac{-1}{\sqrt{71}}, \frac{1}{\sqrt{72}}, \frac{-1}{\sqrt{73}}, \frac{1}{\sqrt{74}}, \frac{-1}{\sqrt{75}}, \frac{1}{\sqrt{76}}, \frac{-1}{\sqrt{77}}, \frac{1}{\sqrt{78}}, \frac{-1}{\sqrt{79}}, \frac{1}{\sqrt{80}}, \frac{-1}{\sqrt{81}}, \frac{1}{\sqrt{82}}, \frac{-1}{\sqrt{83}}, \frac{1}{\sqrt{84}}, \frac{-1}{\sqrt{85}}, \frac{1}{\sqrt{86}}, \frac{-1}{\sqrt{87}}, \frac{1}{\sqrt{88}}, \frac{-1}{\sqrt{89}}, \frac{1}{\sqrt{90}}, \frac{-1}{\sqrt{91}}, \frac{1}{\sqrt{92}}, \frac{-1}{\sqrt{93}}, \frac{1}{\sqrt{94}}, \frac{-1}{\sqrt{95}}, \frac{1}{\sqrt{96}}, \frac{-1}{\sqrt{97}}, \frac{1}{\sqrt{98}}, \frac{-1}{\sqrt{99}}, \frac{1}{\sqrt{100}}$

ب) $E_n = \left[\frac{12}{n} - \frac{1}{n^2} \right] \rightarrow 12 - \frac{1}{1} = 11, 12 - \frac{1}{4} = 11.75, 12 - \frac{1}{9} = 11.88, 12 - \frac{1}{16} = 11.9375, 12 - \frac{1}{25} = 11.96, 12 - \frac{1}{36} = 11.9722, 12 - \frac{1}{49} = 11.9796, 12 - \frac{1}{64} = 11.9844, 12 - \frac{1}{81} = 11.9876, 12 - \frac{1}{100} = 11.99$

الف) $E_n = 2n - 1 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$n=1 \rightarrow 1$
 $n=2 \rightarrow 3$
 $n=3 \rightarrow 5$
 $n=4 \rightarrow 7$
 $n=5 \rightarrow 9$

ب) $E_n = 12n - 1 \rightarrow 11, 23, 35, 47, 59, 71, 83, 95, 107, 119, 131, 143, 155, 167, 179, 191, 203, 215, 227, 239, 251, 263, 275, 287, 299, 311, 323, 335, 347, 359, 371, 383, 395, 407, 419, 431, 443, 455, 467, 479, 491, 503, 515, 527, 539, 551, 563, 575, 587, 599, 611, 623, 635, 647, 659, 671, 683, 695, 707, 719, 731, 743, 755, 767, 779, 791, 803, 815, 827, 839, 851, 863, 875, 887, 899, 911, 923, 935, 947, 959, 971, 983, 995$

$n=1 \rightarrow 11$
 $n=2 \rightarrow 23$
 $n=3 \rightarrow 35$
 $n=4 \rightarrow 47$
 $n=5 \rightarrow 59$

الف) $E_n = 2n - 17 \rightarrow -15, -13, -11, -9, -7, -5, -3, -1, 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$n=1 \rightarrow -15$
 $n=2 \rightarrow -13$
 $n=3 \rightarrow -11$
 $n=4 \rightarrow -9$
 $n=5 \rightarrow -7$
 $n=6 \rightarrow -5$
 $n=7 \rightarrow -3$
 $n=8 \rightarrow -1$
 $n=9 \rightarrow 1$
 $n=10 \rightarrow 3$
 $n=11 \rightarrow 5$
 $n=12 \rightarrow 7$
 $n=13 \rightarrow 9$
 $n=14 \rightarrow 11$
 $n=15 \rightarrow 13$
 $n=16 \rightarrow 15$
 $n=17 \rightarrow 17$
 $n=18 \rightarrow 19$
 $n=19 \rightarrow 21$
 $n=20 \rightarrow 23$
 $n=21 \rightarrow 25$
 $n=22 \rightarrow 27$
 $n=23 \rightarrow 29$
 $n=24 \rightarrow 31$
 $n=25 \rightarrow 33$
 $n=26 \rightarrow 35$
 $n=27 \rightarrow 37$
 $n=28 \rightarrow 39$
 $n=29 \rightarrow 41$
 $n=30 \rightarrow 43$
 $n=31 \rightarrow 45$
 $n=32 \rightarrow 47$
 $n=33 \rightarrow 49$
 $n=34 \rightarrow 51$
 $n=35 \rightarrow 53$
 $n=36 \rightarrow 55$
 $n=37 \rightarrow 57$
 $n=38 \rightarrow 59$
 $n=39 \rightarrow 61$
 $n=40 \rightarrow 63$
 $n=41 \rightarrow 65$
 $n=42 \rightarrow 67$
 $n=43 \rightarrow 69$
 $n=44 \rightarrow 71$
 $n=45 \rightarrow 73$
 $n=46 \rightarrow 75$
 $n=47 \rightarrow 77$
 $n=48 \rightarrow 79$
 $n=49 \rightarrow 81$
 $n=50 \rightarrow 83$
 $n=51 \rightarrow 85$
 $n=52 \rightarrow 87$
 $n=53 \rightarrow 89$
 $n=54 \rightarrow 91$
 $n=55 \rightarrow 93$
 $n=56 \rightarrow 95$
 $n=57 \rightarrow 97$
 $n=58 \rightarrow 99$

ب) $E_n = 12n + 25 \rightarrow 37, 49, 61, 73, 85, 97, 109, 121, 133, 145, 157, 169, 181, 193, 205, 217, 229, 241, 253, 265, 277, 289, 301, 313, 325, 337, 349, 361, 373, 385, 397, 409, 421, 433, 445, 457, 469, 481, 493, 505, 517, 529, 541, 553, 565, 577, 589, 601, 613, 625, 637, 649, 661, 673, 685, 697, 709, 721, 733, 745, 757, 769, 781, 793, 805, 817, 829, 841, 853, 865, 877, 889, 901, 913, 925, 937, 949, 961, 973, 985, 997$

$n=1 \rightarrow 37$
 $n=2 \rightarrow 49$
 $n=3 \rightarrow 61$
 $n=4 \rightarrow 73$
 $n=5 \rightarrow 85$
 $n=6 \rightarrow 97$
 $n=7 \rightarrow 109$
 $n=8 \rightarrow 121$
 $n=9 \rightarrow 133$
 $n=10 \rightarrow 145$
 $n=11 \rightarrow 157$
 $n=12 \rightarrow 169$
 $n=13 \rightarrow 181$
 $n=14 \rightarrow 193$
 $n=15 \rightarrow 205$
 $n=16 \rightarrow 217$
 $n=17 \rightarrow 229$
 $n=18 \rightarrow 241$
 $n=19 \rightarrow 253$
 $n=20 \rightarrow 265$
 $n=21 \rightarrow 277$
 $n=22 \rightarrow 289$
 $n=23 \rightarrow 301$
 $n=24 \rightarrow 313$
 $n=25 \rightarrow 325$
 $n=26 \rightarrow 337$
 $n=27 \rightarrow 349$
 $n=28 \rightarrow 361$
 $n=29 \rightarrow 373$
 $n=30 \rightarrow 385$
 $n=31 \rightarrow 397$
 $n=32 \rightarrow 409$
 $n=33 \rightarrow 421$
 $n=34 \rightarrow 433$
 $n=35 \rightarrow 445$
 $n=36 \rightarrow 457$
 $n=37 \rightarrow 469$
 $n=38 \rightarrow 481$
 $n=39 \rightarrow 493$
 $n=40 \rightarrow 505$
 $n=41 \rightarrow 517$
 $n=42 \rightarrow 529$
 $n=43 \rightarrow 541$
 $n=44 \rightarrow 553$
 $n=45 \rightarrow 565$
 $n=46 \rightarrow 577$
 $n=47 \rightarrow 589$
 $n=48 \rightarrow 601$
 $n=49 \rightarrow 613$
 $n=50 \rightarrow 625$
 $n=51 \rightarrow 637$
 $n=52 \rightarrow 649$
 $n=53 \rightarrow 661$
 $n=54 \rightarrow 673$
 $n=55 \rightarrow 685$
 $n=56 \rightarrow 697$
 $n=57 \rightarrow 709$
 $n=58 \rightarrow 721$
 $n=59 \rightarrow 733$
 $n=60 \rightarrow 745$
 $n=61 \rightarrow 757$
 $n=62 \rightarrow 769$
 $n=63 \rightarrow 781$
 $n=64 \rightarrow 793$
 $n=65 \rightarrow 805$
 $n=66 \rightarrow 817$
 $n=67 \rightarrow 829$
 $n=68 \rightarrow 841$
 $n=69 \rightarrow 853$
 $n=70 \rightarrow 865$
 $n=71 \rightarrow 877$
 $n=72 \rightarrow 889$
 $n=73 \rightarrow 901$
 $n=74 \rightarrow 913$
 $n=75 \rightarrow 925$
 $n=76 \rightarrow 937$
 $n=77 \rightarrow 949$
 $n=78 \rightarrow 961$
 $n=79 \rightarrow 973$
 $n=80 \rightarrow 985$
 $n=81 \rightarrow 997$

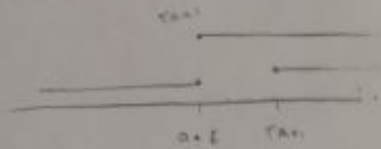
$E_n = 5 \rightarrow 5a + b = 5$
 $E_9 = 22 \rightarrow 9a + b = 22$

$\Rightarrow -5a - b = -5$
 $9a + b = 22$
 $\hline 14a = 17$
 $a = \frac{17}{14}$
 $b = -\frac{17}{14}$

$E_n = 2n - 5$

$E_1 = 2(1) - 5 = -3$
 $E_2 = 2(2) - 5 = -1$
 $E_3 = 2(3) - 5 = 1$
 $E_4 = 2(4) - 5 = 3$
 $E_5 = 2(5) - 5 = 5$
 $E_6 = 2(6) - 5 = 7$
 $E_7 = 2(7) - 5 = 9$
 $E_8 = 2(8) - 5 = 11$
 $E_9 = 2(9) - 5 = 13$
 $E_{10} = 2(10) - 5 = 15$
 $E_{11} = 2(11) - 5 = 17$
 $E_{12} = 2(12) - 5 = 19$
 $E_{13} = 2(13) - 5 = 21$
 $E_{14} = 2(14) - 5 = 23$
 $E_{15} = 2(15) - 5 = 25$
 $E_{16} = 2(16) - 5 = 27$
 $E_{17} = 2(17) - 5 = 29$
 $E_{18} = 2(18) - 5 = 31$
 $E_{19} = 2(19) - 5 = 33$
 $E_{20} = 2(20) - 5 = 35$
 $E_{21} = 2(21) - 5 = 37$
 $E_{22} = 2(22) - 5 = 39$
 $E_{23} = 2(23) - 5 = 41$
 $E_{24} = 2(24) - 5 = 43$
 $E_{25} = 2(25) - 5 = 45$
 $E_{26} = 2(26) - 5 = 47$
 $E_{27} = 2(27) - 5 = 49$
 $E_{28} = 2(28) - 5 = 51$
 $E_{29} = 2(29) - 5 = 53$
 $E_{30} = 2(30) - 5 = 55$
 $E_{31} = 2(31) - 5 = 57$
 $E_{32} = 2(32) - 5 = 59$
 $E_{33} = 2(33) - 5 = 61$
 $E_{34} = 2(34) - 5 = 63$
 $E_{35} = 2(35) - 5 = 65$
 $E_{36} = 2(36) - 5 = 67$
 $E_{37} = 2(37) - 5 = 69$
 $E_{38} = 2(38) - 5 = 71$
 $E_{39} = 2(39) - 5 = 73$
 $E_{40} = 2(40) - 5 = 75$
 $E_{41} = 2(41) - 5 = 77$
 $E_{42} = 2(42) - 5 = 79$
 $E_{43} = 2(43) - 5 = 81$
 $E_{44} = 2(44) - 5 = 83$
 $E_{45} = 2(45) - 5 = 85$
 $E_{46} = 2(46) - 5 = 87$
 $E_{47} = 2(47) - 5 = 89$
 $E_{48} = 2(48) - 5 = 91$
 $E_{49} = 2(49) - 5 = 93$
 $E_{50} = 2(50) - 5 = 95$
 $E_{51} = 2(51) - 5 = 97$
 $E_{52} = 2(52) - 5 = 99$
 $E_{53} = 2(53) - 5 = 101$
 $E_{54} = 2(54) - 5 = 103$
 $E_{55} = 2(55) - 5 = 105$
 $E_{56} = 2(56) - 5 = 107$
 $E_{57} = 2(57) - 5 = 109$
 $E_{58} = 2(58) - 5 = 111$
 $E_{59} = 2(59) - 5 = 113$
 $E_{60} = 2(60) - 5 = 115$
 $E_{61} = 2(61) - 5 = 117$
 $E_{62} = 2(62) - 5 = 119$
 $E_{63} = 2(63) - 5 = 121$
 $E_{64} = 2(64) - 5 = 123$
 $E_{65} = 2(65) - 5 = 125$
 $E_{66} = 2(66) - 5 = 127$
 $E_{67} = 2(67) - 5 = 129$
 $E_{68} = 2(68) - 5 = 131$
 $E_{69} = 2(69) - 5 = 133$
 $E_{70} = 2(70) - 5 = 135$
 $E_{71} = 2(71) - 5 = 137$
 $E_{72} = 2(72) - 5 = 139$
 $E_{73} = 2(73) - 5 = 141$
 $E_{74} = 2(74) - 5 = 143$
 $E_{75} = 2(75) - 5 = 145$
 $E_{76} = 2(76) - 5 = 147$
 $E_{77} = 2(77) - 5 = 149$
 $E_{78} = 2(78) - 5 = 151$
 $E_{79} = 2(79) - 5 = 153$
 $E_{80} = 2(80) - 5 = 155$
 $E_{81} = 2(81) - 5 = 157$
 $E_{82} = 2(82) - 5 = 159$
 $E_{83} = 2(83) - 5 = 161$
 $E_{84} = 2(84) - 5 = 163$
 $E_{85} = 2(85) - 5 = 165$
 $E_{86} = 2(86) - 5 = 167$
 $E_{87} = 2(87) - 5 = 169$
 $E_{88} = 2(88) - 5 = 171$
 $E_{89} = 2(89) - 5 = 173$
 $E_{90} = 2(90) - 5 = 175$
 $E_{91} = 2(91) - 5 = 177$
 $E_{92} = 2(92) - 5 = 179$
 $E_{93} = 2(93) - 5 = 181$
 $E_{94} = 2(94) - 5 = 183$
 $E_{95} = 2(95) - 5 = 185$
 $E_{96} = 2(96) - 5 = 187$
 $E_{97} = 2(97) - 5 = 189$
 $E_{98} = 2(98) - 5 = 191$
 $E_{99} = 2(99) - 5 = 193$
 $E_{100} = 2(100) - 5 = 195$

الف) $E_n = (2n-5)(n-1) \rightarrow 1, 6, 15, 28, 45, 66, 91, 120, 153, 190, 231, 276, 325, 378, 435, 496, 561, 630, 703, 780, 861, 946, 1035, 1128, 1225, 1326, 1431, 1540, 1653, 1770, 1891, 2016, 2145, 2278, 2415, 2556, 2701, 2850, 2993, 3140, 3291, 3446, 3605, 3768, 3935, 4106, 4281, 4460, 4643, 4830, 5021, 5216, 5415, 5618, 5825, 6036, 6251, 6470, 6693, 6920, 7151, 7386, 7625, 7868, 8115, 8366, 8621, 8880, 9143, 9410, 9681, 9956, 10235, 10518, 10805, 11096, 11391, 11690, 11993, 12300, 12611, 12926, 13245, 13568, 13895, 14226, 14561, 14900, 15243, 15590, 15941, 16296, 16655, 17018, 17385, 17756, 18131, 18510, 18893, 19280, 19671, 20066, 20465, 20868, 21275, 21686, 22101, 22520, 22943, 23370, 23801, 24236, 24675, 25118, 25565, 26016, 26471, 26930, 27393, 27860, 28331, 28806, 29285, 29768, 30255, 30746, 31241, 31740, 32243, 32750, 33261, 33776, 34295, 34818, 35345, 35876, 36411, 36950, 37493, 38040, 38591, 39146, 39705, 40268, 40835, 41406, 41981, 42560, 43143, 43730, 44321, 44916, 45515, 46118, 46725, 47336, 47951, 48570, 49193, 49820, 50451, 51086, 51725, 52368, 53015, 53666, 54321, 54980, 55643, 56310, 56981, 57656, 58335, 59018, 59705, 60396, 61091, 61790, 62493, 63200, 63911, 64626, 65345, 66068, 66795, 67526, 68261, 68990, 69723, 70460, 71201, 71946, 72695, 73448, 74205, 74966, 75731, 76500, 77273, 78050, 78831, 79616, 80405, 81198, 81995, 82796, 83601, 84410, 85223, 86040, 86861, 87686, 88515, 89348, 90185, 91026, 91871, 92720, 93573, 94430, 95291, 96156, 97025, 97898, 98775, 99656, 100541, 101430, 102323, 103220, 104121, 105026, 105935, 106848, 107765, 108686, 109611, 110540, 111473, 112410, 113351, 114296, 115245, 116198, 117155, 118116, 119081, 120050, 121023, 121990, 122961, 123936, 124915, 125898, 126885, 127876, 128871, 129870, 130873, 131880, 132891, 133906, 134925, 135948, 136975, 138006, 139041, 140080, 141123, 142170, 143221, 144276, 145335, 146398, 147465, 148536, 149611, 150690, 151773, 152860, 153951, 155046, 156145, 157248, 158355, 159466, 160581, 161690, 162803, 163920, 165041, 166166, 167295, 168428, 169565, 170706, 171851, 172990, 174133, 175280, 176431, 177586, 178745, 179908, 181075, 182246, 183421, 184590, 185763, 186940, 188121, 189306, 190495, 191688, 192885, 194086, 195291, 196490, 197693, 198900, 200111, 201326, 202545, 203768, 204995, 206226, 207461, 208700, 209943, 211190, 212441, 213696, 214955, 216218, 217485, 218756, 220031, 221310, 222593, 223880, 225171, 226466, 227765, 229068, 230375, 231686, 232991, 234300, 235613, 236930, 238251, 239576, 240905, 242238, 243575, 244916, 246261, 247610, 248963, 250320, 251681, 253046, 254415, 255788, 257165, 258546, 259931, 261320, 262713, 264110, 265511, 266916, 268325, 269738, 271155, 272576, 273991, 275410, 276833, 278260, 279691, 281126, 282565, 284008, 285455, 286906, 288361, 289820, 291283, 292750, 294221, 295696, 297175, 298658, 300145, 301636, 303131, 304630, 306133, 307640, 309151, 310666, 312185, 313708, 315235, 316766, 318301, 319840, 321383, 322930, 324481, 326036, 327595, 329158, 330725, 332296,$



$$a \in [a-1, a+1]$$

$$a \in [a, a]$$

$$a \in P, \text{ منتهی } (-\infty, a+1] \cap [a+1, \infty)$$

$$[a, a]$$

-9

-10

$$1, 2, \dots, 99$$

$$\frac{99+1}{2} = 50$$

(ب) کسین بدترین ۵۰

$$1, 2, \dots, 99$$

$$\frac{99+1}{2} = 50$$

(ا) کسین بدترین ۳۳

$$\rightarrow \text{کسین بدترین } 33$$

$$\rightarrow \text{کسین بدترین } 19$$

$$\rightarrow \text{کسین بدترین } 4$$

(د) کسین بدترین ۳ یا ۵

۵

$$\Rightarrow n(A \cup B) = n(A) + n(B) - n(A \cap B)$$

$$\frac{99+1}{2} = 50 \Rightarrow 46$$

$$1, 2, \dots, 99$$

$$\frac{99+1}{2} = 50$$

(ج) کسین بدترین ۵۰