

$\{1\}, \{2, 3, 4\}, \{5, 6, 7, 8, 9\}, \{10, 11, 12, 13, 14, 15, 16\}, \{17, 18, 19, 20, 21, 22, 23, 24, 25\}$	$\{26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36\}, \{37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48\}$	$\{49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64\}, \{65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94\}$	۱
---	--	--	---

واسطه حساب؟ ۷۳

$\{1, 2, 3\}, \{4, 5, 6, 7, 8, 9, 10, 11, 12\}, \{13, 14, 15, 16, 17, 18, 19, 20\}, \{21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$	$\{31, 32, 33, 34, 35, 36, 37, 38, 39, 40\}, \{41, 42, 43, 44, 45, 46, 47, 48, 49, 50\}, \{51, 52, 53, 54, 55, 56, 57, 58, 59, 60\}$	$\{61, 62, 63, 64, 65, 66, 67, 68, 69, 70\}, \{71, 72, 73, 74, 75, 76, 77, 78, 79, 80\}, \{81, 82, 83, 84, 85, 86, 87, 88, 89, 90\}$	۱
---	--	--	---

چون قدر نسبت جملات یکسان نیست پس میانگینشون برابر میانگین جملات اول و آخره!

$$\bar{x} = \frac{343 + 121}{2} = 242$$

$n=1 \Rightarrow 1 = 1(0) + 1 \Rightarrow k=0$ $a_1 = -1(0) + 1 = 1$ $n=2 \Rightarrow 2 = 1(0) + 2 \Rightarrow k=0$ $a_2 = \left[\frac{2}{1+2} \right] + a_1 = 1 + 1 = 2$ $n=3 \Rightarrow 3 = 1(1) + 2 \Rightarrow k=1$ $a_3 = 2$	$n=4 \Rightarrow 4 = 1(1) + 3 \Rightarrow k=1$ $a_4 = \left[\frac{4}{1+4} \right] + a_3 = 1 + 2 = 3$ $n=5 \Rightarrow 5 = 1(2) + 3 \Rightarrow k=1$ $a_5 = 3$ $n=6 \Rightarrow 6 = 1(2) + 4 \Rightarrow k=2$ $a_6 = 4$ $n=7 \Rightarrow 7 = 1(3) + 4 \Rightarrow k=2$ $a_7 = 4$ $n=8 \Rightarrow 8 = 1(3) + 5 \Rightarrow k=2$ $a_8 = 5$ $n=9 \Rightarrow 9 = 1(4) + 5 \Rightarrow k=2$ $a_9 = 5$ $n=10 \Rightarrow 10 = 1(4) + 6 \Rightarrow k=2$ $a_{10} = 6$	$n=11 \Rightarrow 11 = 1(4) + 7 \Rightarrow k=2$ $a_{11} = 6$ $n=12 \Rightarrow 12 = 1(5) + 7 \Rightarrow k=2$ $a_{12} = 7$ $n=13 \Rightarrow 13 = 1(5) + 8 \Rightarrow k=2$ $a_{13} = 7$ $n=14 \Rightarrow 14 = 1(6) + 8 \Rightarrow k=2$ $a_{14} = 8$ $n=15 \Rightarrow 15 = 1(6) + 9 \Rightarrow k=2$ $a_{15} = 8$ $n=16 \Rightarrow 16 = 1(7) + 9 \Rightarrow k=2$ $a_{16} = 9$ $n=17 \Rightarrow 17 = 1(7) + 10 \Rightarrow k=2$ $a_{17} = 9$ $n=18 \Rightarrow 18 = 1(8) + 10 \Rightarrow k=2$ $a_{18} = 10$ $n=19 \Rightarrow 19 = 1(8) + 11 \Rightarrow k=2$ $a_{19} = 10$ $n=20 \Rightarrow 20 = 1(9) + 11 \Rightarrow k=2$ $a_{20} = 11$	$n=21 \Rightarrow 21 = 1(9) + 12 \Rightarrow k=2$ $a_{21} = 11$ $n=22 \Rightarrow 22 = 1(10) + 12 \Rightarrow k=2$ $a_{22} = 12$ $n=23 \Rightarrow 23 = 1(10) + 13 \Rightarrow k=2$ $a_{23} = 12$ $n=24 \Rightarrow 24 = 1(11) + 13 \Rightarrow k=2$ $a_{24} = 13$ $n=25 \Rightarrow 25 = 1(11) + 14 \Rightarrow k=2$ $a_{25} = 13$ $n=26 \Rightarrow 26 = 1(12) + 14 \Rightarrow k=2$ $a_{26} = 14$ $n=27 \Rightarrow 27 = 1(12) + 15 \Rightarrow k=2$ $a_{27} = 14$ $n=28 \Rightarrow 28 = 1(13) + 15 \Rightarrow k=2$ $a_{28} = 15$ $n=29 \Rightarrow 29 = 1(13) + 16 \Rightarrow k=2$ $a_{29} = 15$ $n=30 \Rightarrow 30 = 1(14) + 16 \Rightarrow k=2$ $a_{30} = 16$	$n=31 \Rightarrow 31 = 1(14) + 17 \Rightarrow k=2$ $a_{31} = 16$ $n=32 \Rightarrow 32 = 1(15) + 17 \Rightarrow k=2$ $a_{32} = 17$ $n=33 \Rightarrow 33 = 1(15) + 18 \Rightarrow k=2$ $a_{33} = 17$ $n=34 \Rightarrow 34 = 1(16) + 18 \Rightarrow k=2$ $a_{34} = 18$ $n=35 \Rightarrow 35 = 1(16) + 19 \Rightarrow k=2$ $a_{35} = 18$ $n=36 \Rightarrow 36 = 1(17) + 19 \Rightarrow k=2$ $a_{36} = 19$ $n=37 \Rightarrow 37 = 1(17) + 20 \Rightarrow k=2$ $a_{37} = 19$ $n=38 \Rightarrow 38 = 1(18) + 20 \Rightarrow k=2$ $a_{38} = 20$ $n=39 \Rightarrow 39 = 1(18) + 21 \Rightarrow k=2$ $a_{39} = 20$ $n=40 \Rightarrow 40 = 1(19) + 21 \Rightarrow k=2$ $a_{40} = 21$	$n=41 \Rightarrow 41 = 1(19) + 22 \Rightarrow k=2$ $a_{41} = 21$ $n=42 \Rightarrow 42 = 1(20) + 22 \Rightarrow k=2$ $a_{42} = 22$ $n=43 \Rightarrow 43 = 1(20) + 23 \Rightarrow k=2$ $a_{43} = 22$ $n=44 \Rightarrow 44 = 1(21) + 23 \Rightarrow k=2$ $a_{44} = 23$ $n=45 \Rightarrow 45 = 1(21) + 24 \Rightarrow k=2$ $a_{45} = 23$ $n=46 \Rightarrow 46 = 1(22) + 24 \Rightarrow k=2$ $a_{46} = 24$ $n=47 \Rightarrow 47 = 1(22) + 25 \Rightarrow k=2$ $a_{47} = 24$ $n=48 \Rightarrow 48 = 1(23) + 25 \Rightarrow k=2$ $a_{48} = 25$ $n=49 \Rightarrow 49 = 1(23) + 26 \Rightarrow k=2$ $a_{49} = 25$ $n=50 \Rightarrow 50 = 1(24) + 26 \Rightarrow k=2$ $a_{50} = 26$	$n=51 \Rightarrow 51 = 1(24) + 27 \Rightarrow k=2$ $a_{51} = 26$ $n=52 \Rightarrow 52 = 1(25) + 27 \Rightarrow k=2$ $a_{52} = 27$ $n=53 \Rightarrow 53 = 1(25) + 28 \Rightarrow k=2$ $a_{53} = 27$ $n=54 \Rightarrow 54 = 1(26) + 28 \Rightarrow k=2$ $a_{54} = 28$ $n=55 \Rightarrow 55 = 1(26) + 29 \Rightarrow k=2$ $a_{55} = 28$ $n=56 \Rightarrow 56 = 1(27) + 29 \Rightarrow k=2$ $a_{56} = 29$ $n=57 \Rightarrow 57 = 1(27) + 30 \Rightarrow k=2$ $a_{57} = 29$ $n=58 \Rightarrow 58 = 1(28) + 30 \Rightarrow k=2$ $a_{58} = 30$ $n=59 \Rightarrow 59 = 1(28) + 31 \Rightarrow k=2$ $a_{59} = 30$ $n=60 \Rightarrow 60 = 1(29) + 31 \Rightarrow k=2$ $a_{60} = 31$	$n=61 \Rightarrow 61 = 1(29) + 32 \Rightarrow k=2$ $a_{61} = 31$ $n=62 \Rightarrow 62 = 1(30) + 32 \Rightarrow k=2$ $a_{62} = 32$ $n=63 \Rightarrow 63 = 1(30) + 33 \Rightarrow k=2$ $a_{63} = 32$ $n=64 \Rightarrow 64 = 1(31) + 33 \Rightarrow k=2$ $a_{64} = 33$ $n=65 \Rightarrow 65 = 1(31) + 34 \Rightarrow k=2$ $a_{65} = 33$ $n=66 \Rightarrow 66 = 1(32) + 34 \Rightarrow k=2$ $a_{66} = 34$ $n=67 \Rightarrow 67 = 1(32) + 35 \Rightarrow k=2$ $a_{67} = 34$ $n=68 \Rightarrow 68 = 1(33) + 35 \Rightarrow k=2$ $a_{68} = 35$ $n=69 \Rightarrow 69 = 1(33) + 36 \Rightarrow k=2$ $a_{69} = 35$ $n=70 \Rightarrow 70 = 1(34) + 36 \Rightarrow k=2$ $a_{70} = 36$	$n=71 \Rightarrow 71 = 1(34) + 37 \Rightarrow k=2$ $a_{71} = 36$ $n=72 \Rightarrow 72 = 1(35) + 37 \Rightarrow k=2$ $a_{72} = 37$ $n=73 \Rightarrow 73 = 1(35) + 38 \Rightarrow k=2$ $a_{73} = 37$ $n=74 \Rightarrow 74 = 1(36) + 38 \Rightarrow k=2$ $a_{74} = 38$ $n=75 \Rightarrow 75 = 1(36) + 39 \Rightarrow k=2$ $a_{75} = 38$ $n=76 \Rightarrow 76 = 1(37) + 39 \Rightarrow k=2$ $a_{76} = 39$ $n=77 \Rightarrow 77 = 1(37) + 40 \Rightarrow k=2$ $a_{77} = 39$ $n=78 \Rightarrow 78 = 1(38) + 40 \Rightarrow k=2$ $a_{78} = 40$ $n=79 \Rightarrow 79 = 1(38) + 41 \Rightarrow k=2$ $a_{79} = 40$ $n=80 \Rightarrow 80 = 1(39) + 41 \Rightarrow k=2$ $a_{80} = 41$	$n=81 \Rightarrow 81 = 1(39) + 42 \Rightarrow k=2$ $a_{81} = 41$ $n=82 \Rightarrow 82 = 1(40) + 42 \Rightarrow k=2$ $a_{82} = 42$ $n=83 \Rightarrow 83 = 1(40) + 43 \Rightarrow k=2$ $a_{83} = 42$ $n=84 \Rightarrow 84 = 1(41) + 43 \Rightarrow k=2$ $a_{84} = 43$ $n=85 \Rightarrow 85 = 1(41) + 44 \Rightarrow k=2$ $a_{85} = 43$ $n=86 \Rightarrow 86 = 1(42) + 44 \Rightarrow k=2$ $a_{86} = 44$ $n=87 \Rightarrow 87 = 1(42) + 45 \Rightarrow k=2$ $a_{87} = 44$ $n=88 \Rightarrow 88 = 1(43) + 45 \Rightarrow k=2$ $a_{88} = 45$ $n=89 \Rightarrow 89 = 1(43) + 46 \Rightarrow k=2$ $a_{89} = 45$ $n=90 \Rightarrow 90 = 1(44) + 46 \Rightarrow k=2$ $a_{90} = 46$	$n=91 \Rightarrow 91 = 1(44) + 47 \Rightarrow k=2$ $a_{91} = 46$ $n=92 \Rightarrow 92 = 1(45) + 47 \Rightarrow k=2$ $a_{92} = 47$ $n=93 \Rightarrow 93 = 1(45) + 48 \Rightarrow k=2$ $a_{93} = 47$ $n=94 \Rightarrow 94 = 1(46) + 48 \Rightarrow k=2$ $a_{94} = 48$ $n=95 \Rightarrow 95 = 1(46) + 49 \Rightarrow k=2$ $a_{95} = 48$ $n=96 \Rightarrow 96 = 1(47) + 49 \Rightarrow k=2$ $a_{96} = 49$ $n=97 \Rightarrow 97 = 1(47) + 50 \Rightarrow k=2$ $a_{97} = 49$ $n=98 \Rightarrow 98 = 1(48) + 50 \Rightarrow k=2$ $a_{98} = 50$ $n=99 \Rightarrow 99 = 1(48) + 51 \Rightarrow k=2$ $a_{99} = 50$ $n=100 \Rightarrow 100 = 1(49) + 51 \Rightarrow k=2$ $a_{100} = 51$	$n=101 \Rightarrow 101 = 1(49) + 52 \Rightarrow k=2$ $a_{101} = 51$ $n=102 \Rightarrow 102 = 1(50) + 52 \Rightarrow k=2$ $a_{102} = 52$ $n=103 \Rightarrow 103 = 1(50) + 53 \Rightarrow k=2$ $a_{103} = 52$ $n=104 \Rightarrow 104 = 1(51) + 53 \Rightarrow k=2$ $a_{104} = 53$ $n=105 \Rightarrow 105 = 1(51) + 54 \Rightarrow k=2$ $a_{105} = 53$ $n=106 \Rightarrow 106 = 1(52) + 54 \Rightarrow k=2$ $a_{106} = 54$ $n=107 \Rightarrow 107 = 1(52) + 55 \Rightarrow k=2$ $a_{107} = 54$ $n=108 \Rightarrow 108 = 1(53) + 55 \Rightarrow k=2$ $a_{108} = 55$ $n=109 \Rightarrow 109 = 1(53) + 56 \Rightarrow k=2$ $a_{109} = 55$ $n=110 \Rightarrow 110 = 1(54) + 56 \Rightarrow k=2$ $a_{110} = 56$	$n=111 \Rightarrow 111 = 1(54) + 57 \Rightarrow k=2$ $a_{111} = 56$ $n=112 \Rightarrow 112 = 1(55) + 57 \Rightarrow k=2$ $a_{112} = 57$ $n=113 \Rightarrow 113 = 1(55) + 58 \Rightarrow k=2$ $a_{113} = 57$ $n=114 \Rightarrow 114 = 1(56) + 58 \Rightarrow k=2$ $a_{114} = 58$ $n=115 \Rightarrow 115 = 1(56) + 59 \Rightarrow k=2$ $a_{115} = 58$ $n=116 \Rightarrow 116 = 1(57) + 59 \Rightarrow k=2$ $a_{116} = 59$ $n=117 \Rightarrow 117 = 1(57) + 60 \Rightarrow k=2$ $a_{117} = 59$ $n=118 \Rightarrow 118 = 1(58) + 60 \Rightarrow k=2$ $a_{118} = 60$ $n=119 \Rightarrow 119 = 1(58) + 61 \Rightarrow k=2$ $a_{119} = 60$ $n=120 \Rightarrow 120 = 1(59) + 61 \Rightarrow k=2$ $a_{120} = 61$	$n=121 \Rightarrow 121 = 1(59) + 62 \Rightarrow k=2$ $a_{121} = 61$ $n=122 \Rightarrow 122 = 1(60) + 62 \Rightarrow k=2$ $a_{122} = 62$ $n=123 \Rightarrow 123 = 1(60) + 63 \Rightarrow k=2$ $a_{123} = 62$ $n=124 \Rightarrow 124 = 1(61) + 63 \Rightarrow k=2$ $a_{124} = 63$ $n=125 \Rightarrow 125 = 1(61) + 64 \Rightarrow k=2$ $a_{125} = 63$ $n=126 \Rightarrow 126 = 1(62) + 64 \Rightarrow k=2$ $a_{126} = 64$ $n=127 \Rightarrow 127 = 1(62) + 65 \Rightarrow k=2$ $a_{127} = 64$ $n=128 \Rightarrow 128 = 1(63) + 65 \Rightarrow k=2$ $a_{128} = 65$ $n=129 \Rightarrow 129 = 1(63) + 66 \Rightarrow k=2$ $a_{129} = 65$ $n=130 \Rightarrow 130 = 1(64) + 66 \Rightarrow k=2$ $a_{130} = 66$	$n=131 \Rightarrow 131 = 1(64) + 67 \Rightarrow k=2$ $a_{131} = 66$ $n=132 \Rightarrow 132 = 1(65) + 67 \Rightarrow k=2$ $a_{132} = 67$ $n=133 \Rightarrow 133 = 1(65) + 68 \Rightarrow k=2$ $a_{133} = 67$ $n=134 \Rightarrow 134 = 1(66) + 68 \Rightarrow k=2$ $a_{134} = 68$ $n=135 \Rightarrow 135 = 1(66) + 69 \Rightarrow k=2$ $a_{135} = 68$ $n=136 \Rightarrow 136 = 1(67) + 69 \Rightarrow k=2$ $a_{136} = 69$ $n=137 \Rightarrow 137 = 1(67) + 70 \Rightarrow k=2$ $a_{137} = 69$ $n=138 \Rightarrow 138 = 1(68) + 70 \Rightarrow k=2$ $a_{138} = 70$ $n=139 \Rightarrow 139 = 1(68) + 71 \Rightarrow k=2$ $a_{139} = 70$ $n=140 \Rightarrow 140 = 1(69) + 71 \Rightarrow k=2$ $a_{140} = 71$	$n=141 \Rightarrow 141 = 1(69) + 72 \Rightarrow k=2$ $a_{141} = 71$ $n=142 \Rightarrow 142 = 1(70) + 72 \Rightarrow k=2$ $a_{142} = 72$ $n=143 \Rightarrow 143 = 1(70) + 73 \Rightarrow k=2$ $a_{143} = 72$ $n=144 \Rightarrow 144 = 1(71) + 73 \Rightarrow k=2$ $a_{144} = 73$ $n=145 \Rightarrow 145 = 1(71) + 74 \Rightarrow k=2$ $a_{145} = 73$ $n=146 \Rightarrow 146 = 1(72) + 74 \Rightarrow k=2$ $a_{146} = 74$ $n=147 \Rightarrow 147 = 1(72) + 75 \Rightarrow k=2$ $a_{147} = 74$ $n=148 \Rightarrow 148 = 1(73) + 75 \Rightarrow k=2$ $a_{148} = 75$ $n=149 \Rightarrow 149 = 1(73) + 76 \Rightarrow k=2$ $a_{149} = 75$ $n=150 \Rightarrow 150 = 1(74) + 76 \Rightarrow k=2$ $a_{150} = 76$	$n=151 \Rightarrow 151 = 1(74) + 77 \Rightarrow k=2$ $a_{151} = 76$ $n=152 \Rightarrow 152 = 1(75) + 77 \Rightarrow k=2$ $a_{152} = 77$ $n=153 \Rightarrow 153 = 1(75) + 78 \Rightarrow k=2$ $a_{153} = 77$ $n=154 \Rightarrow 154 = 1(76) + 78 \Rightarrow k=2$ $a_{154} = 78$ $n=155 \Rightarrow 155 = 1(76) + 79 \Rightarrow k=2$ $a_{155} = 78$ $n=156 \Rightarrow 156 = 1(77) + 79 \Rightarrow k=2$ $a_{156} = 79$ $n=157 \Rightarrow 157 = 1(77) + 80 \Rightarrow k=2$ $a_{157} = 79$ $n=158 \Rightarrow 158 = 1(78) + 80 \Rightarrow k=2$ $a_{158} = 80$ $n=159 \Rightarrow 159 = 1(78) + 81 \Rightarrow k=2$ $a_{159} = 80$ $n=160 \Rightarrow 160 = 1(79) + 81 \Rightarrow k=2$ $a_{160} = 81$	$n=161 \Rightarrow 161 = 1(79) + 82 \Rightarrow k=2$ $a_{161} = 81$ $n=162 \Rightarrow 162 = 1(80) + 82 \Rightarrow k=2$ $a_{162} = 82$ $n=163 \Rightarrow 163 = 1(80) + 83 \Rightarrow k=2$ $a_{163} = 82$ $n=164 \Rightarrow 164 = 1(81) + 83 \Rightarrow k=2$ $a_{164} = 83$ $n=165 \Rightarrow 165 = 1(81) + 84 \Rightarrow k=2$ $a_{165} = 83$ $n=166 \Rightarrow 166 = 1(82) + 84 \Rightarrow k=2$ $a_{166} = 84$ $n=167 \Rightarrow 167 = 1(82) + 85 \Rightarrow k=2$ $a_{167} = 84$ $n=168 \Rightarrow 168 = 1(83) + 85 \Rightarrow k=2$ $a_{168} = 85$ $n=169 \Rightarrow 169 = 1(83) + 86 \Rightarrow k=2$ $a_{169} = 85$ $n=170 \Rightarrow 170 = 1(84) + 86 \Rightarrow k=2$ $a_{170} = 86$	$n=171 \Rightarrow 171 = 1(84) + 87 \Rightarrow k=2$ $a_{171} = 86$ $n=172 \Rightarrow 172 = 1(85) + 87 \Rightarrow k=2$ $a_{172} = 87$ $n=173 \Rightarrow 173 = 1(85) + 88 \Rightarrow k=2$ $a_{173} = 87$ $n=174 \Rightarrow 174 = 1(86) + 88 \Rightarrow k=2$ $a_{174} = 88$ $n=175 \Rightarrow 175 = 1(86) + 89 \Rightarrow k=2$ $a_{175} = 88$ $n=176 \Rightarrow 176 = 1(87) + 89 \Rightarrow k=2$ $a_{176} = 89$ $n=177 \Rightarrow 177 = 1(87) + 90 \Rightarrow k=2$ $a_{177} = 89$ $n=178 \Rightarrow 178 = 1(88) + 90 \Rightarrow k=2$ $a_{178} = 90$ $n=179 \Rightarrow 179 = 1(88) + 91 \Rightarrow k=2$ $a_{179} = 90$ $n=180 \Rightarrow 180 = 1(89) + 91 \Rightarrow k=2$ $a_{180} = 91$	$n=181 \Rightarrow 181 = 1(89) + 92 \Rightarrow k=2$ $a_{181} = 91$ $n=182 \Rightarrow 182 = 1(90) + 92 \Rightarrow k=2$ $a_{182} = 92$ $n=183 \Rightarrow 183 = 1(90) + 93 \Rightarrow k=2$ $a_{183} = 92$ $n=184 \Rightarrow 184 = 1(91) + 93 \Rightarrow k=2$ $a_{184} = 93$ $n=185 \Rightarrow 185 = 1(91) + 94 \Rightarrow k=2$ $a_{185} = 93$ $n=186 \Rightarrow 186 = 1(92) + 94 \Rightarrow k=2$ $a_{186} = 94$ $n=187 \Rightarrow 187 = 1(92) + 95 \Rightarrow k=2$ $a_{187} = 94$ $n=188 \Rightarrow 188 = 1(93) + 95 \Rightarrow k=2$ $a_{188} = 95$ $n=189 \Rightarrow 189 = 1(93) + 96 \Rightarrow k=2$ $a_{189} = 95$ $n=190 \Rightarrow 190 = 1(94) + 96 \Rightarrow k=2$ $a_{190} = 96$	$n=191 \Rightarrow 191 = 1(94) + 97 \Rightarrow k=2$ $a_{191} = 96$ $n=192 \Rightarrow 192 = 1(95) + 97 \Rightarrow k=2$ $a_{192} = 97$ $n=193 \Rightarrow 193 = 1(95) + 98 \Rightarrow k=2$ $a_{193} = 97$ $n=194 \Rightarrow 194 = 1(96) + 98 \Rightarrow k=2$ $a_{194} = 98$ $n=195 \Rightarrow 195 = 1(96) + 99 \Rightarrow k=2$ $a_{195} = 98$ $n=196 \Rightarrow 196 = 1(97) + 99 \Rightarrow k=2$ $a_{196} = 99$ $n=197 \Rightarrow 197 = 1(97) + 100 \Rightarrow k=2$ $a_{197} = 99$ $n=198 \Rightarrow 198 = 1(98) + 100 \Rightarrow k=2$ $a_{198} = 100$ $n=199 \Rightarrow 199 = 1(98) + 101 \Rightarrow k=2$ $a_{199} = 100$ $n=200 \Rightarrow 200 = 1(99) + 101 \Rightarrow k=2$ $a_{200} = 101$	$n=201 \Rightarrow 201 = 1(99) + 102 \Rightarrow k=2$ $a_{201} = 101$ $n=202 \Rightarrow 202 = 1(100) + 102 \Rightarrow k=2$ $a_{202} = 102$ $n=203 \Rightarrow 203 = 1(100) + 103 \Rightarrow k=2$ $a_{203} = 102$ $n=204 \Rightarrow 204 = 1(101) + 103 \Rightarrow k=2$ $a_{204} = 103$ $n=205 \Rightarrow 205 = 1(101) + 104 \Rightarrow k=2$ $a_{205} = 103$ $n=206 \Rightarrow 206 = 1(102) + 104 \Rightarrow k=2$ $a_{206} = 104$ $n=207 \Rightarrow 207 = 1(102) + 105 \Rightarrow k=2$ $a_{207} = 104$ $n=208 \Rightarrow 208 = 1(103) + 105 \Rightarrow k=2$ $a_{208} = 105$ $n=209 \Rightarrow 209 = 1(103) + 106 \Rightarrow k=2$ $a_{209} = 105$ $n=210 \Rightarrow 210 = 1(104) + 106 \Rightarrow k=2$ $a_{210} = 106$	$n=211 \Rightarrow 211 = 1(104) + 107 \Rightarrow k=2$ $a_{211} = 106$ $n=212 \Rightarrow 212 = 1(105) + 107 \Rightarrow k=2$ $a_{212} = 107$ $n=213 \Rightarrow 213 = 1(105) + 108 \Rightarrow k=2$ $a_{213} = 107$ $n=214 \Rightarrow 214 = 1(106) + 108 \Rightarrow k=2$ $a_{214} = 108$ $n=215 \Rightarrow 215 = 1(106) + 109 \Rightarrow k=2$
--	---	---	---	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	---	---	--

~~حل المسألة الأولى~~

جواب صفی آخر...

$$qa^r + r^r a + r = \Lambda a^r + r^r a \Rightarrow r^r a + a = r$$

$$a = 1.0$$

$$a_\varepsilon = 2.0$$

$$\frac{a_\varepsilon}{d} = \frac{\varepsilon \Delta}{\varepsilon \Delta}$$

$$q = \frac{c}{b} = \frac{b}{A} \rightarrow aq^r = c \quad aq = b$$

$$ra - r^r b = c - ra \quad aq^r = c, aq = b, ra - r^r b = c - ra$$

$$\rightarrow ra - r^r(aq) = aq^r - ra \rightarrow r - r^r q = q^r - r$$

$$\rightarrow r^r q + q^r = \varepsilon \rightarrow 0 = \varepsilon - r^r q + q^r \rightarrow q = \frac{\sqrt{14+9} \pm r}{r} \rightarrow q < -\varepsilon$$

$$b-d, b, b+d \quad \sigma \rightarrow b \leq \frac{1}{r}(b-d) \leq \frac{1}{r}(b+d)$$

$$\frac{1}{r}(b-d) = b \leq \frac{1}{r}(b+d) \rightarrow b^r - rbd - d = b^r + bd$$

$$\rightarrow -rbd + d^r - bd = 0 \rightarrow d^r - rbd = 0 \Rightarrow d(-rb + d) = 0 \rightarrow d < \frac{rb}{r} \quad \text{جواب صحیح!}$$

$$\rightarrow r^r q = r \frac{1}{r} a \rightarrow r^r q = \frac{a}{b} = \frac{b-d}{b} \Rightarrow \frac{b-rb}{b} = -r, \frac{b-r}{b}$$

$$\frac{ar}{a^r} + \frac{ar^r}{a^r r^r} \Rightarrow r \Rightarrow \frac{r}{a} + \frac{r^r}{a^r r^r} \rightarrow \frac{r}{a} + \frac{r^r}{a^r} = r \xrightarrow{\star} ra^r = ar + r^r$$

$$\rightarrow \frac{a}{r} = \frac{a^r}{ar} = \frac{a^r}{a^r} \rightarrow 0 = ra^r - ar + r^r \xrightarrow{\frac{r}{a} = t} ra^r - \left(\frac{a}{a}\right)a + \left(\frac{a}{r}\right) \rightarrow$$

$$r - \frac{1}{x} + \frac{1}{x} = 0 \Rightarrow ra^r - x + 1 = 0 \rightarrow \frac{\sqrt{a+1}}{r} = x \Rightarrow x = 1$$

$$a_r = \sqrt{a_\varepsilon} \rightarrow ar^r = \sqrt{ar^r} \rightarrow (ar^r)^r = ar^r \rightarrow a^r r^r = ar^r$$

$$\rightarrow ar^r = r^r \rightarrow r^r = r^r = r = r^r \quad aa = r^r \rightarrow ar_\varepsilon = r^r$$

$$ar^r = r^r \rightarrow a = \frac{1}{r} \quad \frac{1}{r} - \frac{1}{r} = \frac{1}{r}$$

$$\star \rightarrow \begin{cases} \frac{r}{a} = 1 - \frac{a^r}{ar} = 1 \\ \frac{r}{a} = -r - \frac{a^r}{ar} = -\frac{1}{r} \end{cases}$$

اداره سوال ۹

ضابطه اول $\rightarrow a_0, a_3, a_4, a_9$

۳

ضابطه دوم $\rightarrow a_1, a_4, a_7$

ضابطه سوم $\rightarrow a_2, a_5, a_8$

$$S_{10} = 1 + 4 + (1+a) + 2 + (1+a) + 4 + 0 + (2+a) + 8 = 19 \rightarrow a = -2$$

جمع جملات خواسته شده از ضابطه سوم به دست میاد :

$$a_n = \left[\frac{n}{K+2} \right] - 2 \xrightarrow{n=3K+2} \left[\frac{3K+2}{K+2} \right] - 2 = \overset{\text{میاد بیرون}}{\left[2 + \frac{K-2}{K+2} \right]} - 2 = \left[\frac{K-2}{K+2} \right]$$

این عبارت به ازای $K=0$ برابر ۱- و به ازای بقیه اعداد صحیح پس جواب خواسته شده ۲-.