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## 1991 Q17

17. An auditorium with 20 rows of seats has 10 seats in the first row. Each successive row has one more seat than the previous row. If students taking an exam are permitted to sit in any row, but not next to another student in that row, then the maximum number of students that can be seated for an exam is

- (A) 150      (B) 180      (C) 200      (D) 400      (E) 460

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## 2015 Q18

18. An arithmetic sequence is a sequence in which each term after the first is obtained by adding a constant to the previous term. For example, 2, 5, 8, 11, 14 is an arithmetic sequence with five terms, in which the first term is 2 and the constant added is 3. Each row and each column in this  $5 \times 5$  array is an arithmetic sequence with five terms. What is the value of  $X$ ?

- (A) 21      (B) 31      (C) 36      (D) 40      (E) 42

1				25
		$X$		
17				81

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**1988 Q19**

19. What is the 100th number in the arithmetic sequence:  
1, 5, 9, 13, 17, 21, 25, ... ?

- A) 397    B) 399    C) 401    D) 403    E) 405

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**1992 Q19**

19. The distance between the 5<sup>th</sup> and 26<sup>th</sup> exits on an interstate highway is 118 miles. If any two exits are at least 5 miles apart, then what is the largest number of miles there can be between two consecutive exits that are between the 5<sup>th</sup> and 26<sup>th</sup> exits?

- (A) 8    (B) 13    (C) 18    (D) 47    (E) 98