

1. For $1 \leq k \leq 22$ we show that there exists a succession of consecutive days during which the grandmaster plays exactly k games. For $1 \leq i \leq 77$ let b_i denote the number of games played on day i . Consider the numbers $\{b_1 + b_2 + \cdots + b_i + k\}_{i=0}^{76} \cup \{b_1 + b_2 + \cdots + b_j\}_{j=1}^{77}$. There are 154 numbers in the list, all among $1, 2, \dots, 153$. Therefore the numbers $\{b_1 + b_2 + \cdots + b_i + k\}_{i=0}^{76} \cup \{b_1 + b_2 + \cdots + b_j\}_{j=1}^{77}$ are not distinct. Therefore there exist integers i, j ($0 \leq i < j \leq 77$) such that $b_{i+1} + \cdots + b_j = k$. During the days $i+1, \dots, j$ the grandmaster plays exactly k games.

2. Let S denote a set of 100 integers chosen from $1, 2, \dots, 200$ such that i does not divide j for all distinct $i, j \in S$. We show that $i \notin S$ for $1 \leq i \leq 15$. Certainly $1 \notin S$ since 1 divides every integer. By construction the odd parts of the elements in S are mutually distinct and at most 199. There are 100 numbers in the list $1, 3, 5, \dots, 199$. Therefore each of $1, 3, 5, \dots, 199$ is the odd part of an element of S . We have $3 \times 5 \times 13 = 195 \in S$. Therefore none of $3, 5, 13, 15$ are in S . We have $3^2 \times 7 = 189 \in S$. Therefore neither of $7, 9$ is in S . We have $11 \times 17 = 187 \in S$. Therefore $11 \notin S$. We have shown that none of $1, 3, 5, 7, 9, 11, 13, 15$ is in S . We show neither of $6, 14$ is in S . Recall $3^2 \times 7 = 189 \in S$. Therefore $3^2 \times 7 = 63 \notin S$. Therefore $2 \times 3^2 \times 7 = 126 \in S$. Therefore $2 \times 3 = 6 \notin S$ and $2 \times 7 = 14 \notin S$. We show $10 \notin S$. Recall $3 \times 5 \times 13 = 195 \in S$. Therefore $5 \times 13 = 65 \notin S$. Therefore $2 \times 5 \times 13 = 130 \in S$. Therefore $2 \times 5 = 10 \notin S$. We now show that none of $2, 4, 8, 12$ are in S . Below we list the integers of the form $2^r 3^s$ that are at most 200:

1,	2,	4,	8,	16,	32,	64,	128,
3,	6,	12,	24,	48,	96,	192,	
9,	18,	36,	72,	144,			
27,	54,	108,					
81,	162,						

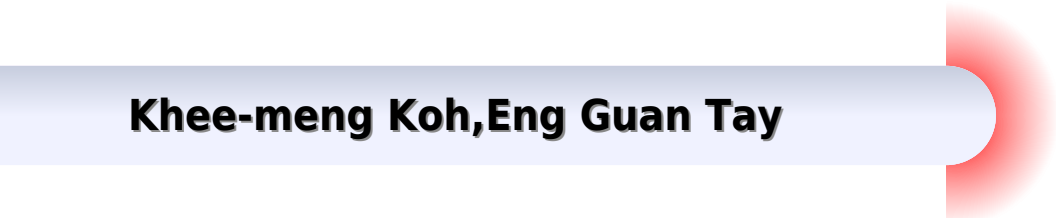
In the above array each element divides everything that lies to the southeast. Also, each row contains exactly one element of S . For $1 \leq i \leq 5$ let r_i denote the element of row i that is contained in S , and let c_i denote the number of the column that contains r_i . We must have $c_i < c_{i-1}$ for $2 \leq i \leq 5$. Therefore $c_i \geq 6 - i$ for $1 \leq i \leq 5$. In particular $c_1 \geq 5$ so $r_1 \geq 16$, and $c_2 \geq 4$ so $r_2 \geq 24$. We have shown that none of $2, 4, 8, 12$ is in S . By the above comments $i \notin S$ for $1 \leq i \leq 15$.

3. See the course notes.

4, 5, 6. Given integers $n \geq 1$ and $k \geq 2$ suppose that $n+1$ distinct elements are chosen from $\{1, 2, \dots, kn\}$. We show that there exist two that differ by less than k . Partition $\{1, 2, \dots, nk\} = \cup_{i=1}^n S_i$ where $S_i = \{ki, ki-1, ki-2, \dots, ki-k+1\}$. Among our $n+1$ chosen elements, there exist two in the same S_i . These two differ by less than k .

Solutions Manual Introductory Combinatorics

Khee-meng Koh, Eng Guan Tay



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