Homework 7: Question and Answer

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Question

Match the descriptions on the left to the symbolic specification on the right. In all the specifications, Ω denotes the set of odd numbers. Some descriptions may not get matched to any symbolic specification.

A. $\textsc{Seq}_{\Omega}(\textsc{Seq}_{(}\mathcal{Z}))$	Compositions
B. $\textsc{Seq}(\textsc{Seq}_{\Omega}(\mathcal{Z}))$	Compositions into M parts
C. $\textsc{Seq}(\mathcal{Z})$	Compositions into odd parts
D. $\textsc{Seq}_{M}(\mathcal{Z})$	Compositions into an odd number of parts
E. $\textsc{MSet}(Z)$	Compositions into distinct parts
F. $\textsc{MSet}_{\Omega}(Z)$	Partitions
G. $\textsc{PSet}(\mathcal{Z})$	Partitions into M parts
H. $\textsc{MSet}(\textsc{Seq}_{\Omega}(\mathcal{Z}))$	Partitions into odd parts
I. $\textsc{MSet}_{\Omega}(\textsc{Seq}(\mathcal{Z}))$	Partitions into distinct parts
	Partitions into an odd number of parts

Answer

A. $\textsc{Seq}_{\Omega}(\textsc{Seq}_{(}\mathcal{Z}))$

B. $\textsc{Seq}(\textsc{Seq}_{\Omega}(\mathcal{Z}))$

C. $\textsc{Seq}(\mathcal{Z})$

D. $\textsc{Seq}_{M}(\mathcal{Z})$

E. $\textsc{MSet}(Z)$

F. $\textsc{MSet}_{\Omega}(Z)$

G. $\textsc{PSet}(\mathcal{Z})$

H. $\textsc{MSet}(\textsc{Seq}_{\Omega}(\mathcal{Z}))$

I. $\textsc{MSet}_{\Omega}(\textsc{Seq}(\mathcal{Z}))$

Compositions **C**

Compositions into M parts **D**

Compositions into odd parts **B**

Compositions into an odd number of parts **A**

Compositions into distinct parts

Partitions **E**

Partitions into M parts

Partitions into odd parts **H**

Partitions into distinct parts **G**

Partitions into an odd number of parts **I**