

Studying subsets of $\{1,2,\dots,9\}$

Set: $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

Example subsets:

1, 2, 3, 4, 5, 6, 7, 8, 9

$A = \{1\}$	1 0 0 0 0 0 0 0 0	$_{\text{Bin}}$	=	128_{Dec}
$A = \{1, 2\}$	1 1 0 0 0 0 0 0 0	$_{\text{Bin}}$	=	192_{Dec}
$A = \{2, 4, 7, 9\}$	0 1 0 1 0 0 1 0 1	$_{\text{Bin}}$	=	165_{Dec}
$A = \{6\}$	0 0 0 0 0 1 0 0 0	$_{\text{Bin}}$	=	8_{Dec}
$A = \{6, 7\}$	0 0 0 0 0 1 1 0 0	$_{\text{Bin}}$	=	12_{Dec}
$A = \{6, 7, 8\}$	0 0 0 0 0 1 1 1 0	$_{\text{Bin}}$	=	14_{Dec}
$A = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$	1 1 1 1 1 1 1 1 1	$_{\text{Bin}}$	=	511_{Dec}