

## Week 06 Participation Assignment

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## 1 Part 1

Write out the addition and multiplication tables for  $\mathbb{Z}_7$ , where by addition and multiplication we mean  $+_7$  and  $\cdot_7$ .

### 1.1 Addition Table

	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>0</b>	0	1	2	3	4	5	6
<b>1</b>	1	2	3	4	5	6	0
<b>2</b>	2	3	4	5	6	0	1
<b>3</b>	3	4	5	6	0	1	2
<b>4</b>	4	5	6	0	1	2	3
<b>5</b>	5	6	0	1	2	3	4
<b>6</b>	6	0	1	2	3	4	5

### 1.2 Multiplication Table

	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>0</b>	0	0	0	0	0	0	0
<b>1</b>	0	1	2	3	4	5	6
<b>2</b>	0	2	4	6	1	3	5
<b>3</b>	0	3	6	2	5	1	4
<b>4</b>	0	4	1	5	2	6	3
<b>5</b>	0	5	3	1	6	4	2
<b>6</b>	0	6	5	4	3	2	1