

# 1 SCRAMBLE IT! (aka Transposition)

**Unscramble This Phrase**

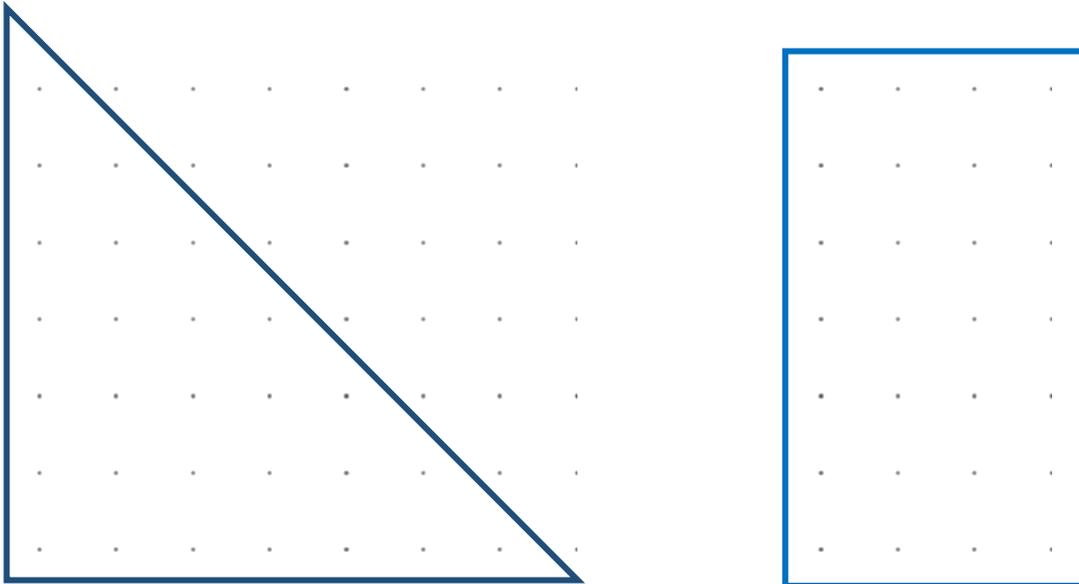
I	C	H	A	E	S	E	T	S	R	I	S	T
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	<b><math>n</math></b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b><math>Char(n)</math></b>		i	n	v	e	r	s	e	f	u	n	c	t	i	o	n	s
<b><math>ModMixup(n)</math></b>																	
<b><math>Char(ModMixup(n))</math></b>																	

	<b><math>n</math></b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
<b><math>Char(n)</math></b>		h	e	e	a	t	p	u	i	m	e	n	p	c	h	s	r	v	a	l	s	r	y
<b><math>ModMixup^{-1}(n)</math></b>																							
<b><math>Char(ModMixup^{-1}(n))</math></b>																							

## ② Scramble It! (aka Transposition)

Use the triangle and rectangle to scramble the phrase "cryptography can become addictive"



## ③ Replace It! (aka Substitution)

<i>Char</i>	<b>g</b>	<b>i</b>	<b>v</b>	<b>e</b>	<b>i</b>	<b>t</b>	<b>a</b>	<b>t</b>	<b>r</b>	<b>y</b>
<i>Value(Char)</i>	<b>7</b>	<b>9</b>	<b>22</b>	<b>5</b>	<b>9</b>	<b>20</b>	<b>1</b>	<b>20</b>	<b>18</b>	<b>25</b>
<i>ModMixup(Value(Char))</i>										
<i>Value<sup>-1</sup>(ModMixup(Value(Char)))</i>										