

Test Doc for c7612 A1:

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Command Entered	Expected Result	Output
make	Program is compiled and linked	<pre>▲ Documents/c7612/a1 ls Makefile switch.asm ▲ Documents/c7612/a1 make nasm -f elf switch.asm ld -m elf_i386 switch.o -o switch ▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1</pre>
make clean	All compiled executables are removed	<pre>▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1 make clean rm switch.o rm switch ▲ Documents/c7612/a1 ls Makefile switch.asm ▲ Documents/c7612/a1</pre>
<pre>./switch <enter> 1 <enter> 2 <enter> 3 <enter> 0 <enter></pre>	All inputs are validated and allowed. Program calculates $2 * 3$ and outputs: 6	<pre>▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : 3 nvalue : 0 Case1: 6</pre>
<pre>./switch <enter> 1 <enter> 2 <enter> 3 <enter> 1 <enter></pre>	All inputs are validated and allowed. Program calculates $3 - 1$ and outputs: 2	<pre>▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : 3 nvalue : 1 Case2: 2 ▲ Documents/c7612/a1</pre>

<pre>./switch <enter> 1 <enter> 2 <enter> 3 <enter> 2 <enter></pre>	<p>All inputs are validated and allowed.</p> <p>Program calculates 1 - 3 and output: -2</p>	<pre>▲ Documents/c7612/a1 make nasm -f elf switch.asm ld -m elf_i386 switch.o -o switch ▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : 3 nvalue : 2 Case3: -2 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> 1 <enter> 2 <enter> 3 <enter> 3 <enter></pre>	<p>All inputs are validated and allowed.</p> <p>Program goes to default case.</p>	<pre>▲ Documents/c7612/a1 make nasm -f elf switch.asm ld -m elf_i386 switch.o -o switch ▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : 3 nvalue : 2 Case3: -2 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> -1 <enter></pre>	<p>Input 1 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1 ./switch Num1 : -1 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> 65536 <enter></pre>	<p>Input 1 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ./switch Num1 : 65536 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> 1 <enter> -1 <enter> 3 <enter></pre>	<p>Input 2 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : -1 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>

<pre>./switch <enter> 1 <enter> 65536 <enter> 3 <enter></pre>	<p>Input 2 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 65536 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> 1 <enter> 2 <enter> -1 <enter> 0 <enter></pre>	<p>Input 3 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : -1 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>
<pre>./switch <enter> 1 <enter> 2 <enter> 65536 <enter> 0 <enter></pre>	<p>Input 3 is invalid. Program terminates and informs the user of the correct input range to use.</p>	<pre>▲ Documents/c7612/a1 ls Makefile switch switch.asm switch.o ▲ Documents/c7612/a1 ./switch Num1 : 1 Num2 : 2 Num3 : 65536 Input must be between 0 and 65535 ▲ Documents/c7612/a1 █</pre>