

problema **Mappa antica (mappa)** caso di test **5x5**

caso di test **mappa 5x5**

File input.txt	
5	
*****	File output.txt
*****	5

All'inizio la tabella mappa conterrà:

1	0	0	+	0
+	0	0	+	+
0	+	0	+	0
+	+	+	0	+
+	0	0	+	0

1 nella casella di partenza di coordinate (0,0) e 0 nelle caselle senza trabocchetto, compresa la casella di destinazione (4,4)

quando tutte le caselle saranno state visitate, nella casella nell'angolo in basso a destra di posizione (4,4) ci sarà la lunghezza del percorso migliore: 5

1	2	3	+	0
+	2	3	+	+
3	+	3	+	5
+	+	+	4	+
+	6	5	+	5

Si riporta di seguito la sequenza degli stati della tabella mappa ai successivi richiami della funzione ricorsiva :

<0> attraversa(0,0);	<1> attraversa(0,1);	<2> attraversa(0,2);	<3> attraversa(1,1);																																																																																																				
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problema *Mappa antica (mappa)* caso di test **5x5**

<p><12> attraversa(2,2);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 8 + + + 7 + + 9 8 + 8 </pre>	<p><13> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 8 + + + 6 + + 9 8 + 8 </pre>	<p><14> attraversa(2,4); --END</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 9 8 + 8 </pre>	<p><13> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 9 8 + 8 </pre>
<p><15> attraversa(4,2);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 9 7 + 8 </pre>	<p><16> attraversa(4,1); --END</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 8 </pre>	<p><15> attraversa(4,2); --END</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 8 </pre>	<p><13> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 8 </pre>
<p><17> attraversa(4,4); --END</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p>a ritroso si torna a 3 richiami che sono al termine:</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre> <p><13> attraversa(3,3);--END <12> attraversa(2,2); --END <3> attraversa(1,1); --END</p>		<p><2> attraversa(0,2);</p> <pre> 1 2 3 + 0 + 4 5 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>
<p><18> attraversa(1,2); --END</p> <pre> 1 2 3 + 0 + 4 4 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><2> attraversa(0,2); --END</p> <pre> 1 2 3 + 0 + 4 4 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><1> attraversa(0,1);</p> <pre> 1 2 3 + 0 + 4 4 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><19> attraversa(1,1);</p> <pre> 1 2 3 + 0 + 3 4 + + 5 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>
<p><20> attraversa(2,0); --END</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><19> attraversa(1,1);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 5 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><21> attraversa(2,2);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 7 + + + 6 + + 8 7 + 7 </pre>	<p><22> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 7 + + + 5 + + 8 7 + 7 </pre>
<p><23> attraversa(2,4); --END</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 8 7 + 7 </pre>	<p><22> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 8 7 + 7 </pre>	<p><24> attraversa(4,2);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 8 6 + 7 </pre>	<p><25> attraversa(4,1); --END</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 7 6 + 7 </pre>
<p><22> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 7 6 + 7 </pre>	<p><26> e poi a ritroso si torna a 3 richiami che sono al termine:</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 7 6 + 6 </pre> <p><26> attraversa(4,4); --END <22> attraversa(3,3); --END <21> attraversa(2,2); --END <19> attraversa(1,1); --END</p>		<p><1> attraversa(0,1);</p> <pre> 1 2 3 + 0 + 3 4 + + 4 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>

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<p><27> e poi a ritroso <1> che è al termine:</p> <pre> 1 2 3 + 0 + 3 3 + + 4 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>	<p><27> attraversa(1,2); --END <1> attraversa(0,1); --END</p>	<p><0> attraversa(0,0);</p> <pre> 1 2 3 + 0 + 3 3 + + 4 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>	<p><28> attraversa(1,1);</p> <pre> 1 2 3 + 0 + 2 3 + + 4 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>
<p><29> attraversa(2,0); --END</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>	<p><28> attraversa(1,1);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 4 + 6 + + + 5 + + 7 6 + 6 </pre>	<p><30> attraversa(2,2);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 6 + + + 5 + + 7 6 + 6 </pre>	<p><31> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 6 + + + 4 + + 7 6 + 6 </pre>
<p><32> attraversa(2,4); --END</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 7 6 + 6 </pre>	<p><31> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 7 6 + 6 </pre>	<p><33> attraversa(4,2);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 7 5 + 6 </pre>	<p><34> attraversa(4,1); --END</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 6 5 + 6 </pre>
<p><33> attraversa(4,2); --END</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 6 5 + 6 </pre>	<p><31> attraversa(3,3);</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 6 5 + 6 </pre>	<p><35> attraversa(4,4); --END</p> <pre> 1 2 3 + 0 + 2 3 + + 3 + 3 + 5 + + + 4 + + 6 5 + 5 </pre>	<p><31> attraversa(3,3); --END <30> attraversa(2,2); --END <28> attraversa(1,1); --END <0> attraversa(0,0); --END</p>