

## Seventh Day of Christmas Walkthrough

**A1 is 1, E5 is 25**

We learn C2 is visited as late as possible. Clearly no later than 20 is possible. Can it be done with C2 = 20? We will show that it can, and for now assume

**C2 is 20**

<b>1</b>				
	<b>20</b>			
				<b>25</b>

Now if D2 is 21 which then joins to 25, the corner E1 has nowhere to go, so C3 is 21

**C3 is 21**

Then C1 cannot be 19 or E1 is trapped. If B2 is 19 then the line from 1, 19 to 25 cuts the grid in two. We conclude

**D2 is 19**

Now once the stream reaches C1 it has to go to D1 and eventually link to 19 and then 25. All the top right must have been visited by then. It follows that

**A2 is 2, A3 is 3, A4 is 4, A5 is 5, B5 is 6**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>14</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>6</b>
<b>15</b>	<b>20</b>	<b>21</b>	<b>10</b>	<b>7</b>
<b>16</b>	<b>19</b>	<b>22</b>	<b>9</b>	<b>8</b>
<b>17</b>	<b>18</b>	<b>23</b>	<b>24</b>	<b>25</b>

At this point there are two possibilities. One in yellow above, while the other in blue below:

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>
<b>11</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>12</b>	<b>19</b>	<b>18</b>	<b>17</b>	<b>24</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>25</b>

We are directed to ensure that D4 occurs as late as possible, so that the blue solution is correct.