

Where in Europe is Jimbob? (CHECKPOINT answers in red)

1	Reflect point A in y axis
2	Label image A'
3	Record coordinates A' (8,7)
4	Translate A' 5 left and 12 down
5	Label image A''
6	Record coordinates A'' (3,-5)
7	Reflect A'' in axis y
8	Label image A'''
9	Record coordinates A''' (-3,-5)
10	CHECKPOINT

11	Translate point B 15 right and 8 down
12	Label image B'
13	Record coordinates B' (7,-8)
14	Translate B' 1 right and 3 up
15	Label image B''
16	Record coordinates B'' (8,-5)
17	Reflect B'' in axis x
18	Label image B'''
19	Record coordinates B''' (8,5)
20	CHECKPOINT

21	Draw a line segment joining points (0,5) and (5,0)
22	Label point (0,5) T
23	Label point (5,0) P
24	Reflect point C in the line segment \overline{TP}
25	Label image C'
26	Record coordinates C' (4,5)
27	Reflect C' in axis x
28	Label image C''
29	Record coordinates C'' (4,-5)
30	Translate C'' by a vector of $\begin{pmatrix} -5 \\ 6 \end{pmatrix}$
31	Label image C'''
32	Record coordinates C''' (-1,1)
33	CHECKPOINT

34	Join points A', B''' and C' with straight line segments to construct a right-angled triangle
35	Rotate the triangle A'B'''C' 90° anti-clockwise around point A'
36	Label new image points B''' as B'''' and C' as C''''
37	Record coordinates B'''' (10,7) C'''' (10,3)
38	Reflect triangle A'B''''C'''' in x axis
39	Label image of C'''' as C''''' C''''' (10,-1)
40	Label image of B'''' as B''''' B''''' (10,-5)
41	Draw line segment connecting point C''''' and point C'
42	Draw line segment connecting point B''''' and point C
43	The point at which line segments $\overline{C'''''C'}$ & $\overline{B'''''C}$ intersect is where you find Jimbob!
44	Record the coordinates of this intersection Jimbob's coordinates (5,4)
45	FINAL CHECKPOINT