Your sample should be developed as a C# Web Api endpoint with an optional JavaScript front end and should be posted to GitHub for review. Please provide your recruiter with the link for the source code.

Geometric layouts

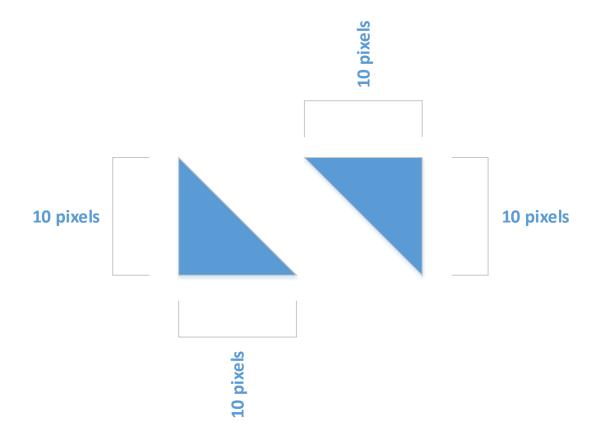
1.A - The task, calculate the triangle coordinates for an image with right triangles such that for a given row (A-F) and column (1-12) you can produce any of the triangles in the layout below:

50 pxels

A2	A4	A6	A8	A10	A12
A1	A3	A5		A9	A11
B2	B4	B6	B8	B10	B12
B1	B3	B5		B9	B11
C2	C4	C6	C8	C10	C12
C1	C3	C5		C9	C11
D2 D1	D4 D3	D6	D8	D10	D12
E2 E1	E4 E3	E6	E8	E10	E12
F2 F1	F4 F3	F6 F5	F8	F10	F12 F11

60 pixels

Each non-hypotenuse side of the triangle is as follows:



1.B - Lastly, given the vertex coordinates, calculate the row and column for the triangle:

