40 Radon $^{222}_{86}Rn$ is the start of a decay chain that forms bismuth $^{214}_{83}Bi$ by alpha and beta emission.

For the decay of each nucleus of radon, how many α–particles and β–particles are emitted?

	α–particles	β–particles
A	1	1
B	2	1
C	1	2
D	2	2

Space for working