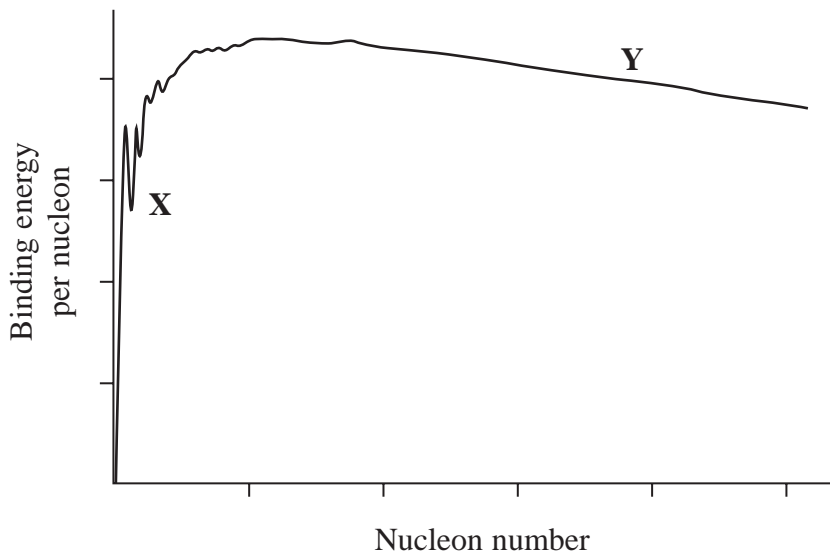


2 The diagram shows binding energy per nucleon against nucleon number for atomic nuclei.



Which line of the table correctly identifies the process that would increase stability for nuclei in the positions indicated by X and Y?

	X	Y
<input checked="" type="checkbox"/> A	nuclear fission	nuclear fission
<input checked="" type="checkbox"/> B	nuclear fission	nuclear fusion
<input checked="" type="checkbox"/> C	nuclear fusion	nuclear fission
<input checked="" type="checkbox"/> D	nuclear fusion	nuclear fusion

(Total for Question 2 = 1 mark)