DMK 2014 - Sulong (3 July 2013)

B2 Lastly referring back to(0)

(Number of good subsets) =
$$2 \times \begin{pmatrix} N0 - of \text{ subsets of } \\ 41,23,...,20113 \\ \text{whose sum of its elements is divisible by 3} \end{pmatrix}$$

= $2 \times A_0$

= $2 \times A_0$

= $2 \times \left[\frac{2^{2011} + 2^{670}}{3}\right]^{13}$

= $2^{2012} + 2^{671}$

= $2^{671} \left(2^{1341} + 1\right)$

So Answer:
$$(2^{2012} + 2^{671})$$
 or $(2^{671}(2^{1341} + 1))$

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