

puramatrix: self-assembling peptide nanofiber scaffolds - 1 a chapter in scaffolding in tissue engineering puramatrix: self-assembling peptide nanofiber scaffolds shuguang zhang*,¹,²,³,⁴,⁵,⁶,⁷,⁸,⁹,¹⁰,¹¹,¹²,¹³,¹⁴,¹⁵,¹⁶,¹⁷,¹⁸,¹⁹,²⁰,²¹,²²,²³,²⁴,²⁵,²⁶,²⁷,²⁸,²⁹,³⁰,³¹,³²,³³,³⁴,³⁵,³⁶,³⁷,³⁸,³⁹,⁴⁰,⁴¹,⁴²,⁴³,⁴⁴,⁴⁵,⁴⁶,⁴⁷,⁴⁸,⁴⁹,⁵⁰,⁵¹,⁵²,⁵³,⁵⁴,⁵⁵,⁵⁶,⁵⁷,⁵⁸,⁵⁹,⁶⁰,⁶¹,⁶²,⁶³,⁶⁴,⁶⁵,⁶⁶,⁶⁷,⁶⁸,⁶⁹,⁷⁰,⁷¹,⁷²,⁷³,⁷⁴,⁷⁵,⁷⁶,⁷⁷,⁷⁸,⁷⁹,⁸⁰,⁸¹,⁸²,⁸³,⁸⁴,⁸⁵,⁸⁶,⁸⁷,⁸⁸,⁸⁹,⁹⁰,⁹¹,⁹²,⁹³,⁹⁴,⁹⁵,⁹⁶,⁹⁷,⁹⁸,⁹⁹,¹⁰⁰,¹⁰¹,¹⁰²,¹⁰³,¹⁰⁴,¹⁰⁵,¹⁰⁶,¹⁰⁷,¹⁰⁸,¹⁰⁹,¹¹⁰,¹¹¹,¹¹²,¹¹³,¹¹⁴,¹¹⁵,¹¹⁶,¹¹⁷,¹¹⁸,¹¹⁹,¹²⁰,¹²¹,¹²²,¹²³,¹²⁴,¹²⁵,¹²⁶,¹²⁷,¹²⁸,¹²⁹,¹³⁰,¹³¹,¹³²,¹³³,¹³⁴,¹³⁵,¹³⁶,¹³⁷,¹³⁸,¹³⁹,¹⁴⁰,¹⁴¹,¹⁴²,¹⁴³,¹⁴⁴,¹⁴⁵,¹⁴⁶,¹⁴⁷,¹⁴⁸,¹⁴⁹,¹⁵⁰,¹⁵¹,¹⁵²,¹⁵³,¹⁵⁴,¹⁵⁵,¹⁵⁶,¹⁵⁷,¹⁵⁸,¹⁵⁹,¹⁶⁰,¹⁶¹,¹⁶²,¹⁶³,¹⁶⁴,¹⁶⁵,¹⁶⁶,¹⁶⁷,¹⁶⁸,¹⁶⁹,¹⁷⁰,¹⁷¹,¹⁷²,¹⁷³,¹⁷⁴,¹⁷⁵,¹⁷⁶,¹⁷⁷,¹⁷⁸,¹⁷⁹,¹⁸⁰,¹⁸¹,¹⁸²,¹⁸³,¹⁸⁴,¹⁸⁵,¹⁸⁶,¹⁸⁷,¹⁸⁸,¹⁸⁹,¹⁹⁰,¹⁹¹,¹⁹²,¹⁹³,¹⁹⁴,¹⁹⁵,¹⁹⁶,¹⁹⁷,¹⁹⁸,¹⁹⁹,²⁰⁰,²⁰¹,²⁰²,²⁰³,²⁰⁴,²⁰⁵,²⁰⁶,²⁰⁷,²⁰⁸,²⁰⁹,²¹⁰,²¹¹,²¹²,²¹³,²¹⁴,²¹⁵,²¹⁶,²¹⁷,²¹⁸,²¹⁹,²²⁰,²²¹,²²²,²²³,²²⁴,²²⁵,²²⁶,²²⁷,²²⁸,²²⁹,²³⁰,²³¹,²³²,²³³,²³⁴,²³⁵,²³⁶,²³⁷,²³⁸,²³⁹,²⁴⁰,²⁴¹,²⁴²,²⁴³,²⁴⁴,²⁴⁵,²⁴⁶,²⁴⁷,²⁴⁸,²⁴⁹,²⁵⁰,²⁵¹,²⁵²,²⁵³,²⁵⁴,²⁵⁵,²⁵⁶,²⁵⁷,²⁵⁸,²⁵⁹,²⁶⁰,²⁶¹,²⁶²,²⁶³,²⁶⁴,²⁶⁵,²⁶⁶,²⁶⁷,²⁶⁸,²⁶⁹,²⁷⁰,²⁷¹,²⁷²,²⁷³,²⁷⁴,²⁷⁵,²⁷⁶,²⁷⁷,²⁷⁸,²⁷⁹,²⁸⁰,²⁸¹,²⁸²,²⁸³,²⁸⁴,²⁸⁵,²⁸⁶,²⁸⁷,²⁸⁸,²⁸⁹,²⁹⁰,²⁹¹,²⁹²,²⁹³,²⁹⁴,²⁹⁵,²⁹⁶,²⁹⁷,²⁹⁸,²⁹⁹,³⁰⁰,³⁰¹,³⁰²,³⁰³,³⁰⁴,³⁰⁵,³⁰⁶,³⁰⁷,³⁰⁸,³⁰⁹,³¹⁰,³¹¹,³¹²,³¹³,³¹⁴,³¹⁵,³¹⁶,³¹⁷,³¹⁸,³¹⁹,³²⁰,³²¹,³²²,³²³,³²⁴,³²⁵,³²⁶,³²⁷,³²⁸,³²⁹,³³⁰,³³¹,³³²,³³³,³³⁴,³³⁵,³³⁶,³³⁷,³³⁸,³³⁹,³⁴⁰,³⁴¹,³⁴²,³⁴³,³⁴⁴,³⁴⁵,³⁴⁶,³⁴⁷,³⁴⁸,³⁴⁹,³⁵⁰,³⁵¹,³⁵²,³⁵³,³⁵⁴,³⁵⁵,³⁵⁶,³⁵⁷,³⁵⁸,³⁵⁹,³⁶⁰,³⁶¹,³⁶²,³⁶³,³⁶⁴,³⁶⁵,³⁶⁶,³⁶⁷,³⁶⁸,³⁶⁹,³⁷⁰,³⁷¹,³⁷²,³⁷³,³⁷⁴,³⁷⁵,³⁷⁶,³⁷⁷,³⁷⁸,³⁷⁹,³⁸⁰,³⁸¹,³⁸²,³⁸³,³⁸⁴,³⁸⁵,³⁸⁶,³⁸⁷,³⁸⁸,³⁸⁹,³⁹⁰,³⁹¹,³⁹²,³⁹³,³⁹⁴,³⁹⁵,³⁹⁶,³⁹⁷,³⁹⁸,³⁹⁹,⁴⁰⁰,⁴⁰¹,⁴⁰²,⁴⁰³,⁴⁰⁴,⁴⁰⁵,⁴⁰⁶,⁴⁰⁷,⁴⁰⁸,⁴⁰⁹,⁴¹⁰,⁴¹¹,⁴¹²,⁴¹³,⁴¹⁴,⁴¹⁵,⁴¹⁶,⁴¹⁷,⁴¹⁸,⁴¹⁹,⁴²⁰,⁴²¹,⁴²²,⁴²³,⁴²⁴,⁴²⁵,⁴²⁶,⁴²⁷,⁴²⁸,⁴²⁹,⁴³⁰,⁴³¹,⁴³²,⁴³³,⁴³⁴,⁴³⁵,⁴³⁶,⁴³⁷,⁴³⁸,⁴³⁹,⁴⁴⁰,⁴⁴¹,⁴⁴²,⁴⁴³,⁴⁴⁴,⁴⁴⁵,⁴⁴⁶,⁴⁴⁷,⁴⁴⁸,⁴⁴⁹,⁴⁵⁰,⁴⁵¹,⁴⁵²,⁴⁵³,⁴⁵⁴,⁴⁵⁵,⁴⁵⁶,⁴⁵⁷,⁴⁵⁸,⁴⁵⁹,⁴⁶⁰,⁴⁶¹,⁴⁶²,⁴⁶³,⁴⁶⁴,⁴⁶⁵,⁴⁶⁶,⁴⁶⁷,⁴⁶⁸,⁴⁶⁹,⁴⁷⁰,⁴⁷¹,⁴⁷²,⁴⁷³,⁴⁷⁴,⁴⁷⁵,⁴⁷⁶,⁴⁷⁷,⁴⁷⁸,⁴⁷⁹,⁴⁸⁰,⁴⁸¹,⁴⁸²,⁴⁸³,⁴⁸⁴,⁴⁸⁵,⁴⁸⁶,⁴⁸⁷,⁴⁸⁸,⁴⁸⁹,⁴⁹⁰,⁴⁹¹,⁴⁹²,⁴⁹³,⁴⁹⁴,⁴⁹⁵,⁴⁹⁶,⁴⁹⁷,⁴⁹⁸,⁴⁹⁹,⁵⁰⁰,⁵⁰¹,⁵⁰²,⁵⁰³,⁵⁰⁴,⁵⁰⁵,⁵⁰⁶,⁵⁰⁷,⁵⁰⁸,⁵⁰⁹,⁵¹⁰,⁵¹¹,⁵¹²,⁵¹³,⁵¹⁴,⁵¹⁵,⁵¹⁶,⁵¹⁷,⁵¹⁸,⁵¹⁹,⁵²⁰,⁵²¹,⁵²²,⁵²³,⁵²⁴,⁵²⁵,⁵²⁶,⁵²⁷,⁵²⁸,⁵²⁹,⁵³⁰,⁵³¹,⁵³²,⁵³³,⁵³⁴,⁵³⁵,⁵³⁶,⁵³⁷,⁵³⁸,⁵³⁹,⁵⁴⁰,⁵⁴¹,⁵⁴²,⁵⁴³,⁵⁴⁴,⁵⁴⁵,⁵⁴⁶,⁵⁴⁷,⁵⁴⁸,⁵⁴⁹,⁵⁵⁰,⁵⁵¹,⁵⁵²,⁵⁵³,⁵⁵⁴,⁵⁵⁵,⁵⁵⁶,⁵⁵⁷,⁵⁵⁸,⁵⁵⁹,⁵⁶⁰,⁵⁶¹,⁵⁶²,⁵⁶³,⁵⁶⁴,⁵⁶⁵,⁵⁶⁶,⁵⁶⁷,⁵⁶⁸,⁵⁶⁹,⁵⁷⁰,⁵⁷¹,⁵⁷²,⁵⁷³,⁵⁷⁴,⁵⁷⁵,⁵⁷⁶,⁵⁷⁷,⁵⁷⁸,⁵⁷⁹,⁵⁸⁰,⁵⁸¹,⁵⁸²,⁵⁸³,⁵⁸⁴,⁵⁸⁵,⁵⁸⁶,⁵⁸⁷,⁵⁸⁸,⁵⁸⁹,⁵⁹⁰,⁵⁹¹,⁵⁹²,⁵⁹³,⁵⁹⁴,⁵⁹⁵,⁵⁹⁶,⁵⁹⁷,⁵⁹⁸,⁵⁹⁹,⁶⁰⁰,⁶⁰¹,⁶⁰²,⁶⁰³,⁶⁰⁴,⁶⁰⁵,⁶⁰⁶,⁶⁰⁷,⁶⁰⁸,⁶⁰⁹,⁶¹⁰,⁶¹¹,⁶¹²,⁶¹³,⁶¹⁴,⁶¹⁵,⁶¹⁶,⁶¹⁷,⁶¹⁸,⁶¹⁹,⁶²⁰,⁶²¹,⁶²²,⁶²³,⁶²⁴,⁶²⁵,⁶²⁶,⁶²⁷,⁶²⁸,⁶²⁹,⁶³⁰,⁶³¹,⁶³²,⁶³³,⁶³⁴,⁶³⁵,⁶³⁶,⁶³⁷,⁶³⁸,⁶³⁹,⁶⁴⁰,⁶⁴¹,⁶⁴²,⁶⁴³,⁶⁴⁴,⁶⁴⁵,⁶⁴⁶,⁶⁴⁷,⁶⁴⁸,⁶⁴⁹,⁶⁵⁰,⁶⁵¹,⁶⁵²,⁶⁵³,⁶⁵⁴,⁶⁵⁵,⁶⁵⁶,⁶⁵⁷,⁶⁵⁸,⁶⁵⁹,⁶⁶⁰,⁶⁶¹,⁶⁶²,⁶⁶³,⁶⁶⁴,⁶⁶⁵,⁶⁶⁶,⁶⁶⁷,⁶⁶⁸,⁶⁶⁹,⁶⁷⁰,⁶⁷¹,⁶⁷²,⁶⁷³,⁶⁷⁴,⁶⁷⁵,⁶⁷⁶,⁶⁷⁷,⁶⁷⁸,⁶⁷⁹,⁶⁸⁰,⁶⁸¹,⁶⁸²,⁶⁸³,⁶⁸⁴,⁶⁸⁵,⁶⁸⁶,⁶⁸⁷,⁶⁸⁸,⁶⁸⁹,⁶⁹⁰,⁶⁹¹,⁶⁹²,⁶⁹³,⁶⁹⁴,⁶⁹⁵,⁶⁹⁶,⁶⁹⁷,⁶⁹⁸,⁶⁹⁹,⁷⁰⁰,⁷⁰¹,⁷⁰²,⁷⁰³,⁷⁰⁴,⁷⁰⁵,⁷⁰⁶,⁷⁰⁷,⁷⁰⁸,⁷⁰⁹,⁷¹⁰,⁷¹¹,⁷¹²,⁷¹³,⁷¹⁴,⁷¹⁵,⁷¹⁶,⁷¹⁷,⁷¹⁸,⁷¹⁹,⁷²⁰,⁷²¹,⁷²²,⁷²³,⁷²⁴,⁷²⁵,⁷²⁶,⁷²⁷,⁷²⁸,⁷²⁹,⁷³⁰,⁷³¹,⁷³²,⁷³³,⁷³⁴,⁷³⁵,⁷³⁶,⁷³⁷,⁷³⁸,⁷³⁹,⁷⁴⁰,⁷⁴¹,⁷⁴²,⁷⁴³,⁷⁴⁴,⁷⁴⁵,⁷⁴⁶,⁷⁴⁷,⁷⁴⁸,⁷⁴⁹,⁷⁵⁰,⁷⁵¹,⁷⁵²,⁷⁵³,⁷⁵⁴,⁷⁵⁵,⁷⁵⁶,⁷⁵⁷,⁷⁵⁸,⁷⁵⁹,⁷⁶⁰,⁷⁶¹,⁷⁶²,⁷⁶³,⁷⁶⁴,⁷⁶⁵,⁷⁶⁶,⁷⁶⁷,⁷⁶⁸,⁷⁶⁹,⁷⁷⁰,⁷⁷¹,⁷⁷²,⁷⁷³,⁷⁷⁴,⁷⁷⁵,⁷⁷⁶,⁷⁷⁷,⁷⁷⁸,⁷⁷⁹,⁷⁸⁰,⁷⁸¹,⁷⁸²,⁷⁸³,⁷⁸⁴,⁷⁸⁵,⁷⁸⁶,⁷⁸⁷,⁷⁸⁸,⁷⁸⁹,⁷⁹⁰,⁷⁹¹,⁷⁹²,⁷⁹³,⁷⁹⁴,⁷⁹⁵,⁷⁹⁶,⁷⁹⁷,⁷⁹⁸,⁷⁹⁹,⁸⁰⁰,⁸⁰¹,⁸⁰²,⁸⁰³,⁸⁰⁴,⁸⁰⁵,⁸⁰⁶,⁸⁰⁷,⁸⁰⁸,⁸⁰⁹,⁸¹⁰,⁸¹¹,⁸¹²,⁸¹³,⁸¹⁴,⁸¹⁵,⁸¹⁶,⁸¹⁷,⁸¹⁸,⁸¹⁹,⁸²⁰,⁸²¹,⁸²²,⁸²³,⁸²⁴,⁸²⁵,⁸²⁶,⁸²⁷,⁸²⁸,⁸²⁹,⁸³⁰,⁸³¹,⁸³²,⁸³³,⁸³⁴,⁸³⁵,⁸³⁶,⁸³⁷,⁸³⁸,⁸³⁹,⁸⁴⁰,⁸⁴¹,⁸⁴²,⁸⁴³,⁸⁴⁴,⁸⁴⁵,⁸⁴⁶,⁸⁴⁷,⁸⁴⁸,⁸⁴⁹,⁸⁵⁰,⁸⁵¹,⁸⁵²,⁸⁵³,⁸⁵⁴,⁸⁵⁵,⁸⁵⁶,⁸⁵⁷,⁸⁵⁸,⁸⁵⁹,⁸⁶⁰,⁸⁶¹,⁸⁶²,⁸⁶³,⁸⁶⁴,⁸⁶⁵,⁸⁶⁶,⁸⁶⁷,⁸⁶⁸,⁸⁶⁹,⁸⁷⁰,⁸⁷¹,⁸⁷²,⁸⁷³,⁸⁷⁴,⁸⁷⁵,⁸⁷⁶,⁸⁷⁷,⁸⁷⁸,⁸⁷⁹,⁸⁸⁰,⁸⁸¹,⁸⁸²,⁸⁸³,⁸⁸⁴,⁸⁸⁵,⁸⁸⁶,⁸⁸⁷,⁸⁸⁸,⁸⁸⁹,⁸⁹⁰,⁸⁹¹,⁸⁹²,⁸⁹³,⁸⁹⁴,⁸⁹⁵,⁸⁹⁶,⁸⁹⁷,⁸⁹⁸,⁸⁹⁹,⁹⁰⁰,⁹⁰¹,⁹⁰²,⁹⁰³,⁹⁰⁴,⁹⁰⁵,⁹⁰⁶,⁹⁰⁷,⁹⁰⁸,⁹⁰⁹,⁹¹⁰,⁹¹¹,⁹¹²,⁹¹³,⁹¹⁴,⁹¹⁵,⁹¹⁶,⁹¹⁷,⁹¹⁸,⁹¹⁹,⁹²⁰,⁹²¹,⁹²²,⁹²³,⁹²⁴,⁹²⁵,⁹²⁶,⁹²⁷,⁹²⁸,⁹²⁹,⁹³⁰,⁹³¹,⁹³²,⁹³³,⁹³⁴,⁹³⁵,⁹³⁶,⁹³⁷,⁹³⁸,⁹³⁹,⁹⁴⁰,⁹⁴¹,⁹⁴²,⁹⁴³,⁹⁴⁴,⁹⁴⁵,⁹⁴⁶,⁹⁴⁷,⁹⁴⁸,⁹⁴⁹,⁹⁵⁰,⁹⁵¹,⁹⁵²,⁹⁵³,⁹⁵⁴,⁹⁵⁵,⁹⁵⁶,⁹⁵⁷,⁹⁵⁸,⁹⁵⁹,⁹⁶⁰,⁹⁶¹,⁹⁶²,⁹⁶³,⁹⁶⁴,⁹⁶⁵,⁹⁶⁶,⁹⁶⁷,⁹⁶⁸,⁹⁶⁹,⁹⁷⁰,⁹⁷¹,⁹⁷²,⁹⁷³,⁹⁷⁴,⁹⁷⁵,⁹⁷⁶,⁹⁷⁷,⁹⁷⁸,⁹⁷⁹,⁹⁸⁰,⁹⁸¹,⁹⁸²,⁹⁸³,⁹⁸⁴,⁹⁸⁵,⁹⁸⁶,⁹⁸⁷,⁹⁸⁸,⁹⁸⁹,⁹⁹⁰,⁹⁹¹,⁹⁹²,⁹⁹³,⁹⁹⁴,⁹⁹⁵,⁹⁹⁶,⁹⁹⁷,⁹⁹⁸,⁹⁹⁹,¹⁰⁰⁰,¹⁰⁰¹,¹⁰⁰²,¹⁰⁰³,¹⁰⁰⁴,¹⁰⁰⁵,¹⁰⁰⁶,¹⁰⁰⁷,¹⁰⁰⁸,¹⁰⁰⁹,¹⁰¹⁰,¹⁰¹¹,¹⁰¹²,¹⁰¹³,¹⁰¹⁴,¹⁰¹⁵,¹⁰¹⁶,¹⁰¹⁷,¹⁰¹⁸,¹⁰¹⁹,¹⁰²⁰,¹⁰²¹,¹⁰²²,¹⁰²³,¹⁰²⁴,¹⁰²⁵,¹⁰²⁶,¹⁰²⁷,¹⁰²⁸,¹⁰²⁹,¹⁰³⁰,¹⁰³¹,¹⁰³²,¹⁰³³,¹⁰³⁴,¹⁰³⁵,¹⁰³⁶,¹⁰³⁷,¹⁰³⁸,¹⁰³⁹,¹⁰⁴⁰,¹⁰⁴¹,¹⁰⁴²,¹⁰⁴³,¹⁰⁴⁴,¹⁰⁴⁵,¹⁰⁴⁶,¹⁰⁴⁷,¹⁰⁴⁸,¹⁰⁴⁹,¹⁰⁵⁰,¹⁰⁵¹,¹⁰⁵²,¹⁰⁵³,¹⁰⁵⁴,¹⁰⁵⁵,¹⁰⁵⁶,¹⁰⁵⁷,¹⁰⁵⁸,¹⁰⁵⁹,¹⁰⁶⁰,¹⁰⁶¹,¹⁰⁶²,¹⁰⁶³,¹⁰⁶⁴,¹⁰⁶⁵,¹⁰⁶⁶,¹⁰⁶⁷,¹⁰⁶⁸,¹⁰⁶⁹,¹⁰⁷⁰,¹⁰⁷¹,¹⁰⁷²,¹⁰⁷³,¹⁰⁷⁴,¹⁰⁷⁵,¹⁰⁷⁶,¹⁰⁷⁷,¹⁰⁷⁸,¹⁰⁷⁹,¹⁰⁸⁰,¹⁰⁸¹,¹⁰⁸²,¹⁰⁸³,¹⁰⁸⁴,¹⁰⁸⁵,¹⁰⁸⁶,¹⁰⁸⁷,¹⁰⁸⁸,¹⁰⁸⁹,¹⁰⁹⁰,¹⁰⁹¹,¹⁰⁹²,¹⁰⁹³,¹⁰⁹⁴,¹⁰⁹⁵,¹⁰⁹⁶,¹⁰⁹⁷,¹⁰⁹⁸,¹⁰⁹⁹,¹¹⁰⁰,¹¹⁰¹,¹¹⁰²,¹¹⁰³,¹¹⁰⁴,¹¹⁰⁵,¹¹⁰⁶,¹¹⁰⁷,¹¹⁰⁸,¹¹⁰⁹,¹¹¹⁰,¹¹¹¹,¹¹¹²,¹¹¹³,¹¹¹⁴,¹¹¹⁵,¹¹¹⁶,¹¹¹⁷,¹¹¹⁸,¹¹¹⁹,¹¹²⁰,¹¹²¹,¹¹²²,¹¹²³,¹¹²⁴,¹¹²⁵,¹¹²⁶,¹¹²⁷,¹¹²⁸,¹¹²⁹,¹¹³⁰,¹¹³¹,¹¹³²,¹¹³³,¹¹³⁴,¹¹³⁵,¹¹³⁶,¹¹³⁷,¹¹³⁸,¹¹³⁹,¹¹⁴⁰,¹¹⁴¹,¹¹⁴²,¹¹⁴³,¹¹⁴⁴,¹¹⁴⁵,¹¹⁴⁶,¹¹⁴⁷,¹¹⁴⁸,¹¹⁴⁹,¹¹⁵⁰,¹¹⁵¹,¹¹⁵²,¹¹⁵³,¹¹⁵⁴,¹¹⁵⁵,¹¹⁵⁶,¹¹⁵⁷,¹¹⁵⁸,¹¹⁵⁹,¹¹⁶⁰,¹¹⁶¹,¹¹⁶²,¹¹⁶³,¹¹⁶⁴,¹¹⁶⁵,¹¹⁶⁶,¹¹⁶⁷,¹¹⁶⁸,¹¹⁶⁹,¹¹⁷⁰,¹¹⁷¹,¹¹⁷²,¹¹⁷³,¹¹⁷⁴,¹¹⁷⁵,¹¹⁷⁶,¹¹⁷⁷,¹¹⁷⁸,¹¹⁷⁹,¹¹⁸⁰,¹¹⁸¹,¹¹⁸²,¹¹⁸³,¹¹⁸⁴,¹¹⁸⁵,¹¹⁸⁶,¹¹⁸⁷,¹¹⁸⁸,¹¹⁸⁹,¹¹⁹⁰,¹¹⁹¹,¹¹⁹²,¹¹⁹³,¹¹⁹⁴,¹¹⁹⁵,¹¹⁹⁶,¹¹⁹⁷,¹¹⁹⁸,¹¹⁹⁹,¹²⁰⁰,¹²⁰¹,¹²⁰²,¹²⁰³,¹²⁰⁴,¹²⁰⁵,¹²⁰⁶,¹²⁰⁷,¹²⁰⁸,¹²⁰⁹,¹²¹⁰,¹²¹¹,¹²¹²,¹²¹³,¹²¹⁴,¹²¹⁵,¹²¹⁶,¹²¹⁷,¹²¹⁸,¹²¹⁹,¹²²⁰,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