

A1. C31R6T Lichipeng

Algorithm:

A = (X:infile, elem:starship, length)

starship = rec(ID: string, Name: string, ~~date~~ ^{Year: NT} + Terra: NT)

Pre = (X - X₀ ∧ X_{year} ∧ |X| > 0)

Post = ((X', (st, e, x')) = Terra > 200000)

SELECT ~~at x₀~~ (st = charm) ✓
C = Σ ex 1
(Terra > 200000)

e.length < ~~512~~ ⁵¹² ~~1024~~ ¹⁰²⁴ ~~2048~~ ²⁰⁴⁸ ~~4096~~ ⁴⁰⁹⁶ ~~8192~~ ⁸¹⁹² ~~16384~~ ¹⁶³⁸⁴ ~~32768~~ ³²⁷⁶⁸ ~~65536~~ ⁶⁵⁵³⁶ ~~131072~~ ¹³¹⁰⁷² ~~262144~~ ²⁶²¹⁴⁴ ~~524288~~ ⁵²⁴²⁸⁸ ~~1048576~~ ¹⁰⁴⁸⁵⁷⁶ ~~2097152~~ ²⁰⁹⁷¹⁵² ~~4194304~~ ⁴¹⁹⁴³⁰⁴ ~~8388608~~ ⁸³⁸⁸⁶⁰⁸ ~~16777216~~ ¹⁶⁷⁷⁷²¹⁶ ~~33554432~~ ³³⁵⁵⁴⁴³² ~~67108864~~ ⁶⁷¹⁰⁸⁸⁶⁴ ~~134217728~~ ¹³⁴²¹⁷⁷²⁸ ~~268435456~~ ²⁶⁸⁴³⁵⁴⁵⁶ ~~536870912~~ ⁵³⁶⁸⁷⁰⁹¹² ~~1073741824~~ ¹⁰⁷³⁷⁴¹⁸²⁴ ~~2147483648~~ ²¹⁴⁷⁴⁸³⁶⁴⁸ ~~4294967296~~ ⁴²⁹⁴⁹⁶⁷²⁹⁶ ~~8589934592~~ ⁸⁵⁸⁹⁹³⁴⁵⁹² ~~17179869184~~ ¹⁷¹⁷⁹⁸⁶⁹¹⁸⁴ ~~34359738368~~ ³⁴³⁵⁹⁷³⁸³⁶⁸ ~~68719476736~~ ⁶⁸⁷¹⁹⁴⁷⁶⁷³⁶ ~~137438953472~~ ¹³⁷⁴³⁸⁹⁵³⁴⁷² ~~274877906944~~ ²⁷⁴⁸⁷⁷⁹⁰⁶⁹⁴⁴ ~~549755813888~~ ⁵⁴⁹⁷⁵⁵⁸¹³⁸⁸⁸ ~~1099511627776~~ ¹⁰⁹⁹⁵¹¹⁶²⁷⁷⁷⁶ ~~2199023255552~~ ²¹⁹⁹⁰²³²⁵⁵⁵⁵² ~~4398046511104~~ ⁴³⁹⁸⁰⁴⁶⁵¹¹¹⁰⁴ ~~8796093022208~~ ⁸⁷⁹⁶⁰⁹³⁰²²²⁰⁸ ~~17592186044416~~ ¹⁷⁵⁹²¹⁸⁶⁰⁴⁴⁴¹⁶ ~~35184372088832~~ ³⁵¹⁸⁴³⁷²⁰⁸⁸⁸³² ~~70368744177664~~ ⁷⁰³⁶⁸⁷⁴⁴¹⁷⁷⁶⁶⁴ ~~140737488355328~~ ¹⁴⁰⁷³⁷⁴⁸⁸³⁵⁵³²⁸ ~~281474976710656~~ ²⁸¹⁴⁷⁴⁹⁷⁶⁷¹⁰⁶⁵⁶ ~~562949953421312~~ ⁵⁶²⁹⁴⁹⁹⁵³⁴²¹³¹² ~~1125899906842624~~ ¹¹²⁵⁸⁹⁹⁹⁰⁶⁸⁴²⁶²⁴ ~~2251799813685248~~ ²²⁵¹⁷⁹⁹⁸¹³⁶⁸⁵²⁴⁸ ~~4503599627370496~~ ⁴⁵⁰³⁵⁹⁹⁶²⁷³⁷⁰⁴⁹⁶ ~~9007199254740992~~ ⁹⁰⁰⁷¹⁹⁹²⁵⁴⁷⁴⁰⁹⁹² ~~18014398509481984~~ ¹⁸⁰¹⁴³⁹⁸⁵⁰⁹⁴⁸¹⁹⁸⁴ ~~36028797018963968~~ ³⁶⁰²⁸⁷⁹⁷⁰¹⁸⁹⁶³⁹⁶⁸ ~~72057594037927936~~ ⁷²⁰⁵⁷⁵⁹⁴⁰³⁷⁹²⁷⁹³⁶ ~~144115188075855872~~ ¹⁴⁴¹¹⁵¹⁸⁸⁰⁷⁵⁸⁵⁵⁸⁷² ~~288230376151711744~~ ²⁸⁸²³⁰³⁷⁶¹⁵¹⁷¹¹⁷⁴⁴ ~~576460752303423488~~ ⁵⁷⁶⁴⁶⁰⁷⁵²³⁰³⁴²³⁴⁸⁸ ~~1152921504606846976~~ ¹¹⁵²⁹²¹⁵⁰⁴⁶⁰⁶⁸⁴⁶⁹⁷⁶ ~~2305843009213693952~~ ²³⁰⁵⁸⁴³⁰⁰⁹²¹³⁶⁹³⁹⁵² ~~4611686018427387904~~ ⁴⁶¹¹⁶⁸⁶⁰¹⁸⁴²⁷³⁸⁷⁹⁰⁴ ~~9223372036854775808~~ ⁹²²³³⁷²⁰³⁶⁸⁵⁴⁷⁷⁵⁸⁰⁸ ~~18446744073709551616~~ ¹⁸⁴⁴⁶⁷⁴⁴⁰⁷³⁷⁰⁹⁵⁵¹⁶¹⁶ ~~36893488147419103232~~ ³⁶⁸⁹³⁴⁸⁸¹⁴⁷⁴¹⁹¹⁰³²³² ~~73786976294838206464~~ ⁷³⁷⁸⁶⁹⁷⁶²⁹⁴⁸³⁸²⁰⁶⁴⁶⁴ ~~147573952589676412928~~ ¹⁴⁷⁵⁷³⁹⁵²⁵⁸⁹⁶⁷⁶⁴¹²⁹²⁸ ~~295147905179352825856~~ ²⁹⁵¹⁴⁷⁹⁰⁵¹⁷⁹³⁵²⁸²⁵⁸⁵⁶ ~~590295810358705651712~~ ⁵⁹⁰²⁹⁵⁸¹⁰³⁵⁸⁷⁰⁵⁶⁵¹⁷¹² ~~1180591620717411303424~~ ¹¹⁸⁰⁵⁹¹⁶²⁰⁷¹⁷⁴¹¹³⁰³⁴²⁴ ~~2361183241434822606848~~ ²³⁶¹¹⁸³²⁴¹⁴³⁴⁸²²⁶⁰⁶⁸⁴⁸ ~~4722366482869645213696~~ 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