





$$a_n = 2^n$$

$$a_1 = 2$$

$$a_2 = 4$$

$$a_3 = 8$$

$$a_4 = 16$$

$$a_5 = 32$$

$$a_6 = 64$$

$$a_7 = 128$$

$$a_8 = 256$$

$$a_9 = 512$$

$$a_{10} = 1024$$

$$a_{11} = 2048$$

$$a_{12} = 4096$$

$$a_{13} = 8192$$

$$a_{14} = 16384$$

$$a_{15} = 32768$$

$$a_{16} = 65536$$

$$a_{17} = 131072$$

$$a_{18} = 262144$$

$$a_{19} = 524288$$

$$a_{20} = 1048576$$

$$a_{21} = 2097152$$

$$a_{22} = 4194304$$

$$a_{23} = 8388608$$

$$a_{24} = 16777216$$

$$a_{25} = 33554432$$

$$a_{26} = 67108864$$

$$a_{27} = 134217728$$

$$a_{28} = 268435456$$

$$a_{29} = 536870912$$

$$a_{30} = 1073741824$$

$$a_{31} = 2147483648$$

$$a_{32} = 4294967296$$

$$a_{33} = 8589934592$$

$$a_{34} = 17179869184$$

$$a_{35} = 34359738368$$

$$a_{36} = 68719476736$$

$$a_{37} = 137438953472$$

$$a_{38} = 274877906944$$

$$a_{39} = 549755813888$$

$$a_{40} = 1099511627776$$

$$a_{41} = 2199023255552$$

$$a_{42} = 4398046511104$$

$$a_{43} = 8796093022208$$

$$a_{44} = 17592186044416$$

$$a_{45} = 35184372088832$$

$$a_{46} = 70368744177664$$

$$a_{47} = 140737488355328$$

$$a_{48} = 281474976710656$$

$$a_{49} = 562949953421312$$

$$a_{50} = 1125899906842624$$

$$a_{51} = 2251799813685248$$

$$a_{52} = 4503599627370496$$

$$a_{53} = 9007199254740992$$

$$a_{54} = 18014398509481984$$

$$a_{55} = 36028797018963968$$

$$a_{56} = 72057594037927936$$

$$a_{57} = 144115188075855872$$

$$a_{58} = 288230376151711744$$

$$a_{59} = 576460752303423488$$

$$a_{60} = 1152921504606846976$$

$$a_{61} = 2305843009213693952$$

$$a_{62} = 4611686018427387904$$

$$a_{63} = 9223372036854775808$$

$$a_{64} = 18446744073709551616$$

$$a_{65} = 36893488147419103232$$

$$a_{66} = 73786976294838206464$$

$$a_{67} = 147573952589676412928$$

$$a_{68} = 295147905179352825856$$

$$a_{69} = 590295810358705651712$$

$$a_{70} = 1180591620717411303424$$

$$a_{71} = 2361183241434822606848$$

$$a_{72} = 4722366482869645213696$$

$$a_{73} = 9444732965739290427392$$

$$a_{74} = 18889465931478580854784$$

$$a_{75} = 37778931862957161709568$$

$$a_{76} = 75557863725914323419136$$

$$a_{77} = 151115727451828646838272$$

$$a_{78} = 302231454903657293676544$$

$$a_{79} = 604462909807314587353088$$

$$a_{80} = 1208925819614629174706176$$

$$a_{81} = 2417851639229258349412352$$

$$a_{82} = 4835703278458516698824704$$

$$a_{83} = 9671406556917033397649408$$

$$a_{84} = 19342813113834066795298816$$

$$a_{85} = 38685626227668133590597632$$

$$a_{86} = 77371252455336267181195264$$

$$a_{87} = 154742504910672534362390528$$

$$a_{88} = 309485009821345068724781056$$

$$a_{89} = 618970019642690137449562112$$

$$a_{90} = 1237940039285380274899124224$$

$$a_{91} = 2475880078570760549798248448$$

$$a_{92} = 4951760157141521099596496896$$

$$a_{93} = 9903520314283042199192993792$$

$$a_{94} = 19807040628566084398385987584$$

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$$a_{96} = 79228162514264337593543950336$$

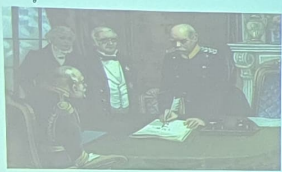
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$$a_{98} = 316912650057057350374175801344$$

$$a_{99} = 633825300114114700748351602688$$

$$a_{100} = 1267650600228229401496703205376$$

8. Which two countries signed a historic peace treaty in 2024 after decades of conflict?

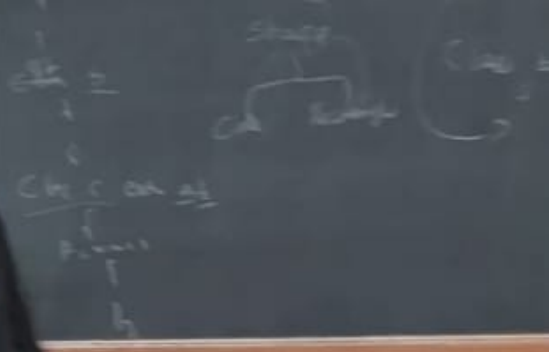
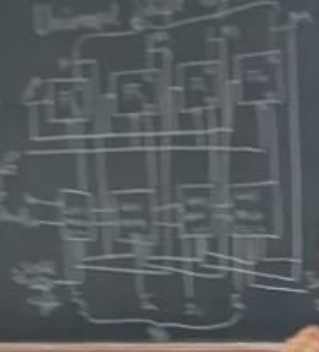


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Problem Statement



Problem 1

Given a set of numbers, find the maximum value.



Problem 2

Given a set of numbers, find the minimum value.



Problem 3

Given a set of numbers, find the average value.