

	11111111111111111111111111111111
	66666777777777788888888889999999999000000000111111111122222222
Taxon	5678901234567890123456789012345678901234567890123456789012345678
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Gorilla gorilla	10??0100200010200101100011021111000??0000000000000000032013051?2
Pan troglodytes	101110001000112001001010110210??00??0010000000000000003101322112
STS 5	101100??211010100001101001020101100??2021001010011000032113?3?10
KNMER 406	101001111100002100111100011100??00??2120022121011001432110?61?0
KNMER 1813	11101001111010001101000011001101120??11122201100110?0033110??01?
KNMER 1470	01101?????0?1???????001????00?????????0?12002?0020?0013301024111
KNMER 3883	1010000121000000111110010?1211002021011?2010121010?0143311014000
KNMER 3733	11001011211000011100000?11021201001100022010010010000012112??110
KNMWT 15000	1101110010?000111100001?21001101002100102010010010110020121??010
Laetoli H18	10??1000000001111011001?010012111220??121?121201111?0232010??00?
Bodo 1	??0??00
Kabwe 1	00??111110100020111100000112121111200013021112111102103220032000
Omo Kibish 2	00??11?121??1021111110010112?????????1?2001??10?????00322?0??00?
Sambungmacan 1	001110112000111111010011101011001220001011?22?00311?0310110??00
LB1	01100101210001111?00101001001101010??2122001210101?103101100??02
Ngandong 6	1110101110111001101000011010?1?11020022100202?1?321203101122??00
Ngandong 11	0010110020011111101000?1011????1021?10?001022?132??1410112??000
Ngawi	101011012000?02011110010101012?111?111??020210?1112?0?14101?1?0000
Sangiran 2	1010110000000101110000112102110110??11?200012?13010?010110??1?
Sangiran 17	111010001000?021110100010101120110210?110022110101?2102111031010
Sinanthropus 3	11111100101011011100001?10121211122111120202111122111022111?4110

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	66666777777777788888888889999999999000000000111111111222222222
Taxon	5678901234567890123456789012345678901234567890123456789012345678
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<i>Sinanthropus 11</i>	1110110010000100110100101012111112?0??2????12111221?141211????01?
<i>Dali</i>	011111011000102110111010111212111021?01300200210010214331101110?
<i>Arago XXI/XLVII</i>	??23010
<i>Petalona 1</i>	00101?????1?1???00??0000?012?10100???01200001111221?012111004000
<i>Monte Circeo 1</i>	100011011010011000010000010202010221000111102100111102321103??0?
<i>La Chapelle 1</i>	0???100112011000110000000102120111102011110011111110432010?2000
<i>Amud 1</i>	001001002000112010110010010211011120?2021210111121??0432110??0??
<i>Skhul V</i>	?01001112001111011110010011112010120???131212211112121022010??00?
<i>Trinil 2</i>	??1?
<i>Modern human</i>	00??010120101020111100000110121111211023121221111212142201034000

	111111122
	9999999000000000011111111122222222233333333334444444444555555
Taxon	345678901234567890123456789012345678901234567890123456 -----
Gorilla gorilla	550111001202531433324?????20001105521234224534462411034124314454
Pan troglodytes	3313200002012302332131022102122224431237100031141022042136323370
STS 5	5510120001011204333230?11??44?????1114335536304462510031013312344
KNMER 406	550111122211000433324?????332?00?2223336323024361311031125314464
KNMER 1813	213101222210010100000?4?????????0013223222031221121042000321012
KNMER 1470	322233100211330233212112?114?22?11111223310032222322141122322235

	1111111222
Taxon	99999990000000000111111111222222222333333333344444444445555555
	3456789012345678901234567890123456789012345678901234567890123456
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<i>KNMER 3883</i>	2231121112012201230013333205323220000001012521121012140000320010
<i>KNMER 3733</i>	22222310101133013310123???0?????11101111152323232?140123320012
<i>KNMWT 15000</i>	??????????????????????343410531320????4???1222?????1?133????2????
<i>Laetoli H18</i>	??????????????????????3????????????????????????????????0003?????
<i>Bodo 1</i>	2031151001000101320003?4?1?5?1???0002112021011111021030000321110
<i>Kabwe 1</i>	2231012120111101010004455305424220001001020020010041140000020000
<i>Omo Kibish 2</i>	??????????????????????4?????????????1????1003?????221213?????????
Sambungmacan 1	???4???2???0???0???3???4?????????????01????0003???0???22120???0?1???1?
LBI	??????????????????????003?330?22?2?????????0003?????22140????2????
Ngandong 6	10333522221011100110004???3???????0000111110021111122140000321113
Ngandong 11	10323210221011000000044???0???????0001001024501121011120000301120
Ngawi	1033341002100101320004455?054?54?0002112012001111012010000301232
Sangiran 2	??
Sangiran 17	??
<i>Sinanthropus 3</i>	2233241112101101330013444101413200000112000020111022140000321124
<i>Sinanthropus 11</i>	1???3?11?2?12??13?0???4??1?????1?000?11?0003?11?22140?1032?11?
Dali	103223110210220012000?3552????5420000000000030001022140000320000
Arago XXI/XLVII	1032231002012200120004244205325420000000000030000022140000320001
Petalona 1	103101100100010001000????????????0001001000030001022140000321010
Monte Circeo 1	103333101211220012000????3???????0000000000030000032140000320003
La Chapelle 1	1031121002001100000004455305425420003101410020001122030000220005
Amud 1	10322222020????031000??????????54??????????00?0000032???0003?????
<i>Skhul V</i>	???????2?0??1?3?0?3????4?????????????????01???1?0003???0???22140???0?2???0?
Trinil 2	??
Modern human	1034551002113301330004455305425420000000000030001022140000320000

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<i>Amud 1</i>	440003031330002????3122?11?0320?1?033??23263???00000?????????3?0
<i>Skhul V</i>	44??0?????????00031222113033011120300320200040000000000000000331
<i>Trinil 2</i>	????????????????????????????31????????????????????????????????
Modern human	4400030403300020003122211303300112030032020004000000000000000331

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	2222222233
Taxon	1234567890123456789012345678901234567890123456789012345678901234

<i>Gorilla gorilla</i>	0000100310222121341211420101210342221201000201001100000000011011
<i>Pan troglodytes</i>	0000100002033033011221530001112112122100000111000100140221224122
<i>STS 5</i>	2210232002200?0?01000?001221?00000?002?1121?2?222??1221?31?2?2??
<i>KNMER 406</i>	????422?1?2?00??12??01?012?111?22?0?02111??101222????????????2
<i>KNMER 1813</i>	232142320030???00000?00?011???0000?0???0010???22????????????2
<i>KNMER 1470</i>	11002211013?11????1??0??0?1?121??3?2?0?1?0??20112?2????????2
<i>KNMER 3883</i>	2321222200300211010001000101210110100210000201221211221321222131
<i>KNMER 3733</i>	12112212003??1??01??????01??21?11?1?1???100??2?122?2012??3??2?2?
<i>KNMWT 15000</i>	2320333000300000010002000101210000000210000201221201231321223221
<i>Laetoli H18</i>	??21????000?0000301000100010121100100021000020122220126134122221
<i>Bodo 1</i>	??2
<i>Kabwe 1</i>	23214331003000?001000100010121100000021000020122211261341223142
<i>Omo kibish 2</i>	?2?143300?3?????????????01?121?????????00??201????1?????1?222?
<i>Sambungmacan 1</i>	??21322000310?10011001300101???1002?102?0011?0?222??1251?412?21?2
<b>LB1</b>	2321333110300000010002002200210000000211100201202202251320211321
<i>Ngandong 6</i>	23212330003???01000?????000???1000???2?000????221??1251?2?2??1??
<i>Ngandong 11</i>	23214320003??2
<i>Ngawi</i>	2321433100300000010002000101210000000210000201222201221321222121
<i>Sangiran 2</i>	?221433000331022031012401121212132011200020101112101241131222320
<i>Sgangan 17</i>	?221?33210??11?2???????
<i>Sinanthropus 3</i>	2221223200300010010001100101211001000210000201221201241321222122
<i>Sinanthropus 11</i>	2321433200311011100000011100002012211012413212221200000010001002
<i>Dali</i>	232142200031101110000001110010211222101231321?22?20000?01000?00?
<i>Arago XXI/XLVII</i>	??21???300??2
<i>Petralona 1</i>	2321432000311?1?1??00??01?00???0?222??12?1?1?12?21?0?000?01?02
<i>Monte Circeo 1</i>	232123300030001111000001110000201222101251311?22?4000?00000?00?
<i>La Chapelle 1</i>	2321?33000?1101110000001110000201222101231321222320000000001001
<i>Amud 1</i>	2?214???2003???????0?0?1????????????????????????????000?????0?0?
<i>Skhul V</i>	232143310031101110000001110000201222101221311?22?31000?01000?30?
<i>Trinil 2</i>	????????0??2
<i>Modern human</i>	2321433000311011100000011100002012221012213212221200000010001002

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