Tables of random letters¹

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Two tables of computer-generated random letters are presented. One consists of 2,000 random letters sampled "with replacement"; all 26 letters are equally likely at any given entry. The other consists of 100 random permutations of the 26 letters of the alphabet; sampling was "without replacement."

Experimenters in the fields of perception, memory, psycholinguistics and human engineering occasionally have use for randomized sequences of alphabetical characters. At such times, it would be convenient if tables of random letters were generally available, eliminating the tedium of recoding tables of random numbers or of writing a computer program to do the job.

The following tables were generated by a program utilizing the Stanford Computation Center Library subroutine RANDOM, which generates pseudo-random numbers uniformly distributed in (0, 1) space, and recoding the numbers as alphabetical characters. Table I presents 2,000 random letters, sampled "with replacement." All 26 letters are equally likely at any given entry in the table. Probably more useful is Table II, which presents 100 random permutations of the 26 letters of the alphabet. In each sequence, sampling was "without replacement."

Note

1. This work was done while the writer was a Graduate Fellow of the National Science Foundation, and was supported in part by a grant from the Stanford Computation Center.

TABLE I
2,000 RANDOM LETTERS

UGUVDXTBTQ	CGCESQVTRK	VZMMANMGWT	PNXORRUXDT	SAQRWQYGTG
WNADGVRXUL	LBCFTTGUNH	GTCHROLEON	ARQGFAAZGS	KEDQVBHZZH
YELCRBMOHR	DOERSNQTC	DSYLRGKKUP	URZXRDNHEE	BZDUCNSKUX
ARAXJMLBPR	SDZOTEGKXR	QTTHTVXYLL	WFNJTPWTYG	OSSLIZPUIT
IVTXMACOWY	CFRRQDDIVZ	HLQLVROCFW	AGPENLTXDC	RSYQQNQEVV
YEQLEEGCSX	JVFFTCFOFU	BWCRRYVFAY	FEENFHHJLH	ATHGAFCRIN
VXJNHDPDMQ	PDPQDQNHYW	EEXEIZVCC	ZZTSSWNLKY	HMISEPTXSA
MPJTDXBHFX	ORXTLVCBMJ	WGUIMVIRGQ	MHMXGKTBLG	HYORLZQFRN
YWDQAMQYSX	ZYHCTFISXW	NSAVJLEAFB	XXARCHVTNU	HLEIRVKIHM
DYTNUJMKYL	JUDARSUCCC	DHDFGMMZTG	CWDZRTIQSE	TCOCNBRGPX
EUURTZWLT	KFZDYCGUMY	BRXDMXAJSR	FXNIYISTZJ	UDDUKYTOOG
JWWBZWBJNP	GUJMXLLZZV	SUEMRSCBCX	AALGQSTXMY	SRQMHIDGO
RSMLTZNYBQ	RYFEHDDHGC	ETORLZHHZQ	GIFFAGNLBU	MYMRACVVKS
UPWLAOUYYP	MKDQHIGMVZ	QTVQTLQLFY	TCYRMLHHCQ	ERMHMGUJHP
HVAPVNZTGB	VIRWMAEUIL	IHCDAETDVU	PIQOWIMRWK	SRHZYRLKLD
JPXFZZIJEK	XLVRYAQFYL	LKUVNGRKEZ	YLOBQTOHYI	GPHXVPGDT
SKYDQYRSBF	FCPXJPQQPN	PVUIVQBHCN	LROLVAPICF	SMHJQXOZHV
HIWUQUAQU	GLYBKPWYJB	MUIXOPMEAJ	DNXQHRMOWF	JIEUECLFAY
SORUAJFYUP	ZFAFHPCSMS	SFDCDPZJFX	NGWJUUAAMT	OKXBCPUQLU
LSGIDOTFLO	KMWLELKQWF	IPYZMWQRZK	JWMQCCUMTE	XSZBUHGVYG
JRPJJARSHP	DVREUKGFTV	HIWDEYGWYX	KCOGADDMRA	WVUCBFXSUU
ZWQQHGLTOK	LJXTRDDGLN	ZKNDVPDTQE	DRRAJNDWNH	ONCZVAIRSI
FPGTNLJAGT	YSMDEAHLUZ	JRSZNXWXFO	UGHJLFNZTG	SMDOFBWLGE
VWEGIUPOVV	KRSCJTUDIF	QMYKSEZPRU	EACZMOEHMM	YHFFAFKYSE
AVWDUIKFRK	TGBAQEZMUZ	MPQDDMNFPK	YGAVNVEEIQ	NBWZXVUKQC
VRHAMMYFFY	JTLWKZJNF	QRVTSZTGEY	GSJKUBCOSH	LNJZKELZVJ
XZYSJGFMYI	OHNZQLBLCA	SVTHPGGBUI	AUMDZNYANX	ZKCEYRYKMY
QQLGXWFZTZ	IKOKETSZUG	HBUBRYXGZ	SSKMTGZBRW	VCOJWFAMI
HSNWIXAZRA	LHPDTYPQHA	QWRUKNTIAM	UZCJVOZFNR	QOUDULNIQ
JCCCTRYGKE	LVJRCDDQGG	PMQLTKFPGB	KQAWFATQMU	QLLCHJMTWV
ANQJKSCOWQ	IQSGHFJTRU	RPNZGNUMERU	SCIVMRJSTB	GHPOELLFJZ
SOIEUBLPJQ	HQPRLHAVZA	AGKFELDQBF	BCHPQFEZRB	UJGPRBAEIR
XMIQTFMBDF	YWQDCSRQWM	RWDJJSFYUR	RFDLZXLEN	YXDAPTEDIS
EMTIPWCFJI	VSSOXMJJUG	CCOGYSPYQE	IWTCHXTFBQ	QLMFGKRYIC
LHKKIJYJOV	MZTVLUKJIE	MUGTIWJKDK	URHKNHTRWN	SXXYAQJFDR
JSOESADFJQ	HZMXZSRTPV	UCMTKTQGW	TCOYSOREAC	VIJYLWJXPQ
XSAENKPENK	QERCNKNZBM	FOQYVYWTOR	FBNZCBUZAZ	STIGSLDTZT
BKJWVIJVG	YUKIJPVLNY	IYPEGGWDEX	FIRRGQTLZQ	IZECCZUPGC
CZMGTYSBJK	MOPNTGYRZO	XSCCCYEJIM	RFFZSHBMIV	TPVWJBKIZ
IDORTWVYUA	GIRAWELROO	YZTXHRWCEP	GWWASJVYUA	IVCPAFEZKH

TABLE II
100 RANDOM PERMUTATIONS OF THE ALPHABET

PCSFJXORUGLMEZYDIVATNHKWQB
CYAJXFEMVKDRGTLSRPNHIQWZNU
FMTYCNQDJRUEASKLGOVPXIHWBZ
DOULXBNYCGEHWRRQSPMTZJKIFVA
JUCXMVPHBQODZEFIKRYSLNGATW
ZRXGACELKTOBNIVFUHQWYMDSPJ
GTWXJQDCVARPISUMENKYHZFOLB
FZRDXQLYVIGJMACOTESHNNWKP
TENCYUKZSOALBDFVHMXXJGIQPRW
LWVHUCSNTQADYMJZGXEQIRFKPB
KPROJNZCVGYHMEUDQXLABIFWS
BQWKAMDESXTFLVJNZYIPQURHGC
URGKWNABMITXZLVPCQDSYJFO
UCONMKYVZITXGRWSPEDHBAJFLQ
NXCKMTDHPWJVRBFUOIGESAZYQ
MJHQEAWKRLUSXFGQERIXKNYSPVQ
MWGYSVZIBXJLPFRUDHEQCCKAT
PGRNQYLXDKMQAFZBUISEWTVJC
YBJPOCFRLZVETIOAHWKUMXSNDG
ZLMKRMHUFJADTCGQERIXKNYSPVQ
UIBEHRXNOKAJTQYMLWGVZPFSCD
NTPQBDRGSAZQVKJLWFIEMCXYHU
MGQBFZXD TJWHLIRQUAKVCSEYPN
TUBQFXMZSVENWVGJCKRIPYDHADL
OXTDINAJGVCLWEHBUYSQKMZPFR
MHSGKBFDACPETIJZXVRLUNYWOQ
KEYPVZMXTLRIJURWOSQAGFDCHN
QDFGCSYBZKMXUJIPNLRTQOVWHA
SMAKZXEHJRFDTRIQWNUYQVGPC
QCZWLONKYMGSRRBXAUVPTJIEF
KGXOMJIDWSPVHARTEFZQYCBNLU
HEFWKPGGADTZNRCXCBJSMLYVJU
AHCQNMVLPYTEIUJORWBGDZSFK
HPLBSDEQNUKAJQWXXZVRFTIGM
QLWGYKHXZMNDIBSPRAEUFTJVOC
ZOUYIQPMKNXHARBGLTSFEDVJCW
GJVSICEFYNDOTUPRAKXLZOMBHW
ZRUBTPLMSNQCHYGQVDEWIKFAXJ
SMFVQHNIGJXZAUWLWEPCKDQTYB
TSCXOIYHAFBUKEZQGNRDVLJPMW
CEPDIMRSBLGFKZJOWUXHQANTVY
KUQOCQAVEFNWSHXYGLPMZBDJRT
RQSWNZHKKXGDOCFUEIPYMBLVTJA
HCLZKXRAJBNIPIFUYMDQVQSEWVG
GDLIBFXHZCARWQKJYEVMTNOUNP
OLJZIMFVBTWCHEPGYXNKARQUSD
CXUYWIPNTRASDQKLEJMFVGZDH
ZWLQBXSMQKQDTJNFECVAIHYRPU
HAVCYPZQXKMTBQUWDRLSIEJGNF
NXHYRWJLPTCFDQIUGBMKZAVESQ

SQOANGWIYJUXRZVLKCPBETHFDM
KQBUQAMWGYIOVTXCLFJZNPRHSE
TQPLVNGRCEFWDKMBYZJSHXIAOU
ORXILJNAWCQTFKMZGVPHRSYEDU
VDAJFKLIZWSNRQOHMYPCEGTUXR
FLEWRHMZQGNBTDUPSJACXVKQYI
VBQOEYXHTMGCRKNWPZJTFASOL
CLAGRSTMQKQXBZUHOINEJWVPFY
JLNACTZKQBIPIXFCGWSQVMUEHRY
GHYECTZQPVXDJOURKSWLRMAFIN
EZQHSVDWRCPATAOXBIYLNMGUJFK
YDATJZVHMFWKQLSPCXBORNIGEU
LWQPFADYXZRVRGSEFTMDJKCUN
LZDSGNKMTXJECVYNORPAQTHBUE
HNRTDLJVKMBPZCQWGFSEFYQXUAI
BRDZTCWPMAXHFIJNKGMPOEYVSLQ
ELVPBZWOSQDAKIRFHYMTNQGUCJ
ZLQJMWFCRGVODYNHITKAEPXBSU
GYSTQBNREDHWCOAJVLFPMIZXK
FGYHWEINUKRJBXQVPZLSDTMAOC
VZDFAIERKPQYQSHLRWNMGJCT
KQGNVLIZEFWCYHSXOADRUPRMTJ
RVPKMYZGAUSELHIXWJOTROCFDN
XQGSVLQKINFUTGYBEMPCQJHRZAW
RBIQADPXLUDGNEFMTHVJYKSCWZ
NKSGUAPRVQIJLTDZFEYCYXRMQH
VBKJPSLUZXECRQOQYITWAFNMGH
OCVEWUNMQBZRXTYIGLSKJFHPAD
CAWZKOMRSPXYEGVTHIFNQBUOLDJ
OTNEKVAFMXYRQSLBUJGWCHDPIZ
MREJTGCBPQSLYWIADHKFXNOVZ
KQMYETCFGPURXQDSJBZAHINLVW
PZXESYGKBNFULIQWQVRMDATJCH
APQXNCFZRTHSLWEGUQIMBVJKYD
ABMUQHVSNRCTEGYXLJDKWPZFI
MJDEHTFXALQCURGVWQIKRZYSNP
RUKCYNFWDGPTXZIMJQSLBQEAHV
UXGAMONYHRVWDIZTQEBSEFCPLJK
JVSOMYLUWQZFTONPGECBXARIKH
SITLMVQANBGRWJFCHOZEUKXPYD
ZCWNGAPTEOSBXIMFYDLHKRJQV
YQFNZCUDIPLKTAMXWGOHSREBJV
CXWRVSUODIMGYAQTEJKLZNHFPB
UVDEKZJYGRXCHNQRSMWFLAIPTD
FJSBIEQZWTMPVYKULRCHAGXDNQ
BXYLNLZCHKUIAQSDPFVGMWJERT
ILYVUBARWTNZMFQSEGGQPKCXHJ
FRQHPYWWICJLUEBXASGKDDTZMN
ERTHYVCNOGFIUDAPJZBQXSWMLK
ZPUWCMJIBLEDAVTGYSFNQRKXHD