Numerical Recipes Example Programs

This page gives access to the individual Example Programs (which show how to use the Recipes). Scroll down this page and click the left mouse button on any particular Example that you want to **view**, **print**, or **save to disk**. (Note: Be sure to initialize your path with the Set Path button before you save any files to disk.)

We do not recommend copying all the Examples to disk in bulk. (Here is why.) Instead, we recommend copying just those Examples relevant to a specific project. However, if you really want to copy all the Examples to a single directory, here is how:

1. Set your path using the Set Path button on the button bar.
2. Click here:Copy all Example Programs to Disk

LIST OF EXAMPLE PROGRAMS

XAIRY.FOR	Sample program using AIRY
XAMEBSA.FOR	Sample program using AMEBSA
XAMOEBA.FOR	Sample program using AMOEBA
XANNEAL.FOR	Sample program using ANNEAL
XARCODE.FOR	Sample program using ARCODE
XAVEVAR.FOR	Sample program using AVEVAR
XBALANC.FOR	Sample program using BALANC
XBANDEC.FOR	Sample program using BANDEC
XBANMUL.FOR	Sample program using BANMUL
XBCUCOF.FOR	Sample program using BCUCOF
XBCUINT.FOR	Sample program using BCUINT
XBESCHB.FOR	Sample program using BESCHB
XBESSI.FOR	Sample program using BESSI
XBESSI0.FOR	Sample program using BESSI0
XBESSI1.FOR	Sample program using BESSI1
XBESSIK.FOR	Sample program using BESSIK
XBESSJ.FOR	Sample program using BESSJ
XBESSJ0.FOR	Sample program using BESSJ0
XBESSJ1.FOR	Sample program using BESSJ1
XBESSJY.FOR	Sample program using BESSJY
XBESSK.FOR	Sample program using BESSK
XBESSK0.FOR	Sample program using BESSK0
XBESSK1.FOR	Sample program using BESSK1
XBESSY.FOR	Sample program using BESSY
XBESSY0.FOR	Sample program using BESSY0
XBESSY1.FOR	Sample program using BESSY1
XBETA.FOR	Sample program using BETA
XBETAI.FOR	Sample program using BETAI
XBICO.FOR	Sample program using BICO
XBNLDEV.FOR	Sample program using BNLDEV
XBRENT.FOR	Sample program using BRENT
XBROYDN.FOR	Sample program using BROYDN
XBSSTEP.FOR	Sample program using BSSTEP
XCALDAT.FOR	Sample program using CALDAT
XCHDER.FOR	Sample program using CHDER
XCHEBEV.FOR	Sample program using CHEBEV
XCHEBFT.FOR	Sample program using CHEBFT
XCHEBPC.FOR	Sample program using CHEBPC
XCHINT.FOR	Sample program using CHINT
XCHOLSL.FOR	Sample program using CHOLSL
XCHSONE.FOR	Sample program using CHSONE
XCHSTWO.FOR	Sample program using CHSTWO
XCISI.FOR	Sample program using CISI

XCNTAB1.FOR	Sample program using CNTAB1
XCNTAB2.FOR	Sample program using CNTAB2
XCONVLV.FOR	Sample program using CONVLV
XCORREL.FOR	Sample program using CORREL
XCOSFT1.FOR	Sample program using COSFT1
XCOSFT2.FOR	Sample program using COSFT2
XCOVSRT.FOR	Sample program using COVSRT
XCRANK.FOR	Sample program using CRANK
XCYCLIC.FOR	Sample program using CYCLIC
XDAWSON.FOR	Sample program using DAWSON
XDBRENT.FOR	Sample program using DBRENT
XDDPOLY.FOR	Sample program using DDPOLY
XDECCHK.FOR	Sample program using DECCHK
XDF1DIM.FOR	Sample program using DF1DIM
XDFPMIN.FOR	Sample program using DFPMIN
XDFRIDR.FOR	Sample program using DFRIDR
XDFTINT.FOR	Sample program using DFTINT
XECLASS.FOR	Sample program using ECLASS
XECLAZZ.FOR	Sample program using ECLAZZ
XEI.FOR	Sample program using EI
XEIGSRT.FOR	Sample program using EIGSRT
XELLE.FOR	Sample program using ELLE
XELLF.FOR	Sample program using ELLF
XELLPI.FOR	Sample program using ELLPI
XELMHES.FOR	Sample program using ELMHES
XERF.FOR	Sample program using ERF
XERFC.FOR	Sample program using ERFC
XERFCC.FOR	Sample program using ERFCC
XEULSUM.FOR	Sample program using EULSUM
XEVLMEM.FOR	Sample program using EVLMEM
XEXPDEV.FOR	Sample program using EXPDEV
XEXPINT.FOR	Sample program using EXPINT
XF1DIM.FOR	Sample program using F1DIM
XFACTLN.FOR	Sample program using FACTLN
XFACTRL.FOR	Sample program using FACTRL
XFASPER.FOR	Sample program using FASPER
XFGAUSS.FOR	Sample program using FGAUSS
XFIT.FOR	Sample program using FIT
XFITEXY.FOR	Sample program using FITEXY
XFIXRTS.FOR	Sample program using FIXRTS
XFLEG.FOR	Sample program using FLEG
XFLMOON.FOR	Sample program using FLMOON
XFOUR1.FOR	Sample program using FOUR1
XFOURFS.FOR	Sample program using FOURFS
XFOURN.FOR	Sample program using FOURN
XFPOLY.FOR	Sample program using FPOLY
XFRED2.FOR	Sample program using FRED2
XFREDIN.FOR	Sample program using FREDIN
XFRENEL.FOR	Sample program using FRENEL
XFRPRMN.FOR	Sample program using FRPRMN
XFTEST.FOR	Sample program using FTEST
XGAMDEV.FOR	Sample program using GAMDEV
XGAMMLN.FOR	Sample program using GAMMLN
XGAMMP.FOR	Sample program using GAMMP
XGAMMQ.FOR	Sample program using GAMMQ
XGASDEV.FOR	Sample program using GASDEV
XGAUCOF.FOR	Sample program using GAUCOF

XGAUHER.FOR	Sample program using GAUHER
XGAUJAC.FOR	Sample program using GAUJAC
XGAULAG.FOR	Sample program using GAULAG
XGAULEG.FOR	Sample program using GAULEG
XGAUSSJ.FOR	Sample program using GAUSSJ
XGCF.FOR	Sample program using GCF
XGOLDEN.FOR	Sample program using GOLDEN
XGSER.FOR	Sample program using GSER
XHPSEL.FOR	Sample program using HPSEL
XHPSORT.FOR	Sample program using HPSORT
XHQR.FOR	Sample program using HQR
XHUFFMAN.FOR	Sample program using HUFFMAN
XHUNT.FOR	Sample program using HUNT
XHYPGEO.FOR	Sample program using HYPGEO
XICRC.FOR	Sample program using ICRC
XIGRAY.FOR	Sample program using IGRAY
XINDEXX.FOR	Sample program using INDEXX
XIRBIT1.FOR	Sample program using IRBIT1
XIRBIT2.FOR	Sample program using IRBIT2
XJACOBI.FOR	Sample program using JACOBI
XJULDAY.FOR	Sample program using JULDAY
XKENDL1.FOR	Sample program using KENDL1
XKENDL2.FOR	Sample program using KENDL2
XKS2D1S.FOR	Sample program using KS2D1S
XKS2D2S.FOR	Sample program using KS2D2S
XKSONE.FOR	Sample program using KSONE
XKSTWO.FOR	Sample program using KSTWO
XLAGUER.FOR	Sample program using LAGUER
XLFIT.FOR	Sample program using LFIT
XLINBCG.FOR	Sample program using LINBCG
XLINMIN.FOR	Sample program using LINMIN
XLOCATE.FOR	Sample program using LOCATE
XLUBKSB.FOR	Sample program using LUBKSB
XLUDCMP.FOR	Sample program using LUDCMP
XMACHAR.FOR	Sample program using MACHAR
XMEDFIT.FOR	Sample program using MEDFIT
XMEMCOF.FOR	Sample program using MEMCOF
XMGFAS.FOR	Sample program using MGFAS
XMGLIN.FOR	Sample program using MGLIN
XMIDPNT.FOR	Sample program using MIDPNT
XMISER.FOR	Sample program using MISER
XMMID.FOR	Sample program using MMID
XMNBRAK.FOR	Sample program using MNBRAK
XMNEWT.FOR	Sample program using MNEWT
XMOMENT.FOR	Sample program using MOMENT
XMPPI.FOR	Sample program using MPPI
XMPROVE.FOR	Sample program using MPROVE
XMRQCOF.FOR	Sample program using MRQCOF
XMRQMIN.FOR	Sample program using MRQMIN
XNEWT.FOR	Sample program using NEWT
XODEINT.FOR	Sample program using ODEINT
XORTHOG.FOR	Sample program using ORTHOG
XPADE.FOR	Sample program using PADE
XPCCHEB.FOR	Sample program using PCCHEB
XPCSHFT.FOR	Sample program using PCSHFT
XPEARSN.FOR	Sample program using PEARSN
XPERIOD.FOR	Sample program using PERIOD

XPIKSR2.FOR	Sample program using PIKSR2
XPIKSRT.FOR	Sample program using PIKSRT
XPLGNDR.FOR	Sample program using PLGNDR
XPOIDEV.FOR	Sample program using POIDEV
XPOLCOE.FOR	Sample program using POLCOE
XPOLCOF.FOR	Sample program using POLCOF
XPOLDIV.FOR	Sample program using POLDIV
XPOLIN2.FOR	Sample program using POLIN2
XPOLINT.FOR	Sample program using POLINT
XPOWELL.FOR	Sample program using POWELL
XPREDIC.FOR	Sample program using PREDIC
XPROBKS.FOR	Sample program using PROBKS
XPSDES.FOR	Sample program using PSDES
XPZEXTR.FOR	Sample program using PZEXTR
XQGAUS.FOR	Sample program using QGAUS
XQRDCMP.FOR	Sample program using QRDCMP
XQROMB.FOR	Sample program using QROMB
XQROMO.FOR	Sample program using QROMO
XQROOT.FOR	Sample program using QROOT
XQRSOLV.FOR	Sample program using QRSOLV
XQRUPDT.FOR	Sample program using QRUPDT
XQSIMP.FOR	Sample program using QSIMP
XQTRAP.FOR	Sample program using QTRAP
XQUAD3D.FOR	Sample program using QUAD3D
XRAN.FOR	Sample program using RAN
XRAN4.FOR	Sample program using RAN4
XRANK.FOR	Sample program using RANK
XRATINT.FOR	Sample program using RATINT
XRATLSQ.FOR	Sample program using RATLSQ
XRC.FOR	Sample program using RC
XRD.FOR	Sample program using RD
XREALFT.FOR	Sample program using REALFT
XRF.FOR	Sample program using RF
XRJ.FOR	Sample program using RJ
XRK4.FOR	Sample program using RK4
XRKDUMB.FOR	Sample program using RKDUMB
XRKQS.FOR	Sample program using RKQS
XRLFT3.FOR	Sample program using RLFT3
XROFUNC.FOR	Sample program using ROFUNC
XRTBIS.FOR	Sample program using RTBIS
XRTFLSP.FOR	Sample program using RTFLSP
XRTNEWT.FOR	Sample program using RTNEWT
XRTSAFE.FOR	Sample program using RTSAFE
XRTSEC.FOR	Sample program using RTSEC
XRZEXTR.FOR	Sample program using RZEXTR
XSAVGOL.FOR	Sample program using SAVGOL
XSCRSHO.FOR	Sample program using SCRSHO
XSELECT.FOR	Sample program using SELECT
XSELIP.FOR	Sample program using SELIP
XSHELL.FOR	Sample program using SHELL
XSIMPLX.FOR	Sample program using SIMPLX
XSIMPR.FOR	Sample program using SIMPR
XSINFT.FOR	Sample program using SINFT
XSNCNDN.FOR	Sample program using SNCNDN
XSOBSEQ.FOR	Sample program using SOBSEQ
XSOR.FOR	Sample program using SOR
XSORT.FOR	Sample program using SORT

XSORT2.FOR	Sample program using SORT2
XSORT3.FOR	Sample program using SORT3
XSPCTRM.FOR	Sample program using SPCTRM
XSPEAR.FOR	Sample program using SPEAR
XSPHBES.FOR	Sample program using SPHBES
XSPHFPT.FOR	Sample program using SPHFPT
XSPLIE2.FOR	Sample program using SPLIE2
XSPLIN2.FOR	Sample program using SPLIN2
XSPLINE.FOR	Sample program using SPLINE
XSPLINT.FOR	Sample program using SPLINT
XSPRSAX.FOR	Sample program using SPRSAX
XSPRSIN.FOR	Sample program using SPRSIN
XSPRSPM.FOR	Sample program using SPRSPM
XSPRSTM.FOR	Sample program using SPRSTM
XSPRSTP.FOR	Sample program using SPRSTP
XSPRSTX.FOR	Sample program using SPRSTX
XSTIFBS.FOR	Sample program using STIFBS
XSTIFF.FOR	Sample program using STIFF
XSTOERM.FOR	Sample program using STOERM
XSVBKSB.FOR	Sample program using SVBKSB
XSVDCMP.FOR	Sample program using SVDCMP
XSVDFIT.FOR	Sample program using SVDFIT
XSVDVAR.FOR	Sample program using SVDVAR
XTOEPLZ.FOR	Sample program using TOEPLZ
XTPTEST.FOR	Sample program using TPTEST
XTQLI.FOR	Sample program using TQLI
XTRAPZD.FOR	Sample program using TRAPZD
XTRED2.FOR	Sample program using TRED2
XTRIDAG.FOR	Sample program using TRIDAG
XTTEST.FOR	Sample program using TTEST
XTUTEST.FOR	Sample program using TUTEST
XTWOFFT.FOR	Sample program using TWOFFT
XVANDER.FOR	Sample program using VANDER
XVEGAS.FOR	Sample program using VEGAS
XVOLTRA.FOR	Sample program using VOLTRA
XWT1.FOR	Sample program using WT1
XWTN.FOR	Sample program using WTN
XZBRAC.FOR	Sample program using ZBRAC
XZBRAK.FOR	Sample program using ZBRAK
XZBRENT.FOR	Sample program using ZBRENT
XZRHQR.FOR	Sample program using ZRHQR
XZRIDDR.FOR	Sample program using ZRIDDR
XZROOTS.FOR	Sample program using ZROOTS