```
{
 "cells": [
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "# Pachete necesare pentru folosirea acestui Notebook\n",
    "\n",
    "Vom folosi [scipy](https://scipy.org/), [numpy](https://numpy.org/) Č i [matplotlib](https://matplotlib.org/)."
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 2,
   "metadata": {},
   "outputs": [],
   "source": [
    "import numpy as np\n",
    "import matplotlib.pyplot as plt\n",
    "from scipy import misc, ndimage\n",
    "from scipy.fft import dctn, idctn"
   ]
  },
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "# Imaginea cu care lucrÄm\n",
    "\n",
    "Vom folosi o imagine din setul de date oferit implicit de cÄtre scipy."
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 3,
   "metadata": {},
   "outputs": [
    {
     "data": {
      "image/png":
"iVBORw0KGgoAAAANSUhEUgAAAQYAAAD8CAYAAACVSwr3AAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjMuMywgaHR0cHM6Ly9tYXRwbG90bG
liLm9yZy/Il7ecAAAACXBIWXMAAAsTAAALEwEAmpwYAADp2ElEQVR4nOz9Z2ykWXYmDD5vBIPhPcmgN5lkkkzvbVXb6uqebmkaI6mlHgEatdQzGgFaDHawPyTtn
++XAC0GGMwCu58ACeOl/qTWmmlNq6SuLpNdXeltpaH33gQZEQxv3/3Bei5PvAySQWaWhlrUARJJBuN197333HOe85xzNF3X8bl8Lp/L5yLF9L/6Bj6Xz+VzOXzy
uWL4XD6Xz2WbfK4YPpfP5XPZJp8rhs/lc/lctsnniuFz+Vw+l23yuWL4XD6Xz2WbfGaKQdO0b2iaNqxp2pimaX/wWV3nc/lcPpfXL9pnwWPQNM0MYATA1wDMAXg
A4J/ruj7w2i/2uXwun8trl8/KYrgMYEzX9Qld13MA/hLAtz+ja30un8vn8pql5jM6bwuAWfH7HIArO33ZarXqDodj3xfRNG3/d3YAMV5H1/XP5Nqf9fNomrbt3n
VdR7FYLPs7PzeZTGXfL5VKyGaz0HVdfa9QKEDTNFitVtTU1KBQKCCbzaKmpgZmsxmlUgnFYhGapsFkMqnzlEol1NbWlv1uMpmgaRo0TUM+n4emaTCbzdA0TZ2D5
+Q/s9ms7p3/dF1HqVSCruuwWCzqupRisYhisQiLxaK+v5vlzPPJcSuVSgCw7dxGsVqt6jr/q2V5eTms63p9Nd/9rBRDpVEoG3lN034HwO8AgN1ux1e/+lUAWwO+
k8gXsddL+fQ66qVz4lQr+/2+FN5bNcfLe+Ti+KzujwuJUiwWEY1Gyz7XdR3ZbBZWqxWlUglutxv5fB7RaBTj4+MoFAqIxWIoFArI5/Oora1Fa2srampqEI1GEYl
EUFtbC5PJpBaw1WqFx+NBqVTCxsYGcrkc7HY7gE3lYjKZ4HQ6YbPZUFNTg4WFBZjNZtTW1kLTNORyOVgsFgSDQeRyOSQSCSSTSXg8njKF53K5UCgU1D06HA60tb
UpJUSJRqPIZDJobGxU58/lcjuOZ6lUQjKZhKZpqKmpga7rSikCld8blWtbWxs6OjrKxlh+16iojZ+9Lvl3/+7fTVf73c9KMcwBaBO/twJYkF/Qdf1PAfwpAPj9f
qU05GKXWpm7hvE7e8lBlQKPPcgLqmZxc9Hs5xgKv7ffe+O4yefi5KV1QKmpqUEul0OpVEIul1NKgAs9k8mo91EsFhEOhwEAmUwGhUJh27XNZjMSiQSKxSIymUzZ
QuPf+XmxWFRWRz6fL7uvVCqFQqGAdDqNYrGIRCKhnoNWCgDk83l1/wsLC2hraytbmF6vF4VCAeFwGHV1daitrVWLfaexczqdSKVSyrqpqalRY2AcV2BL4c/OzqJ
YLKKrqws1NTXqu/yOlMNgWQCfnWJ4AKBH07QuAPMAvgvg1/d7ErlYpFm5HznIIjqoMpDHy8lc6Xw0TeX3OLH22jXkoq72XnfarXgfxnOazWYUCgWUSiXEYjHU1t
Yik8kA2Fx0xWJR3WepVEIqlVI/A1ALjOemcimVSigUCmoR8h3ruo50Oq0WvDw/sDm+uVwOkUgEuq6re5GbB5UNLR4qsnA4rHZuOR+CwSBWVlawtraGuro6WK3WM
tdKCt+vw+FAMplEqVRSiqhQKCCXy0HXdVit1oqWw/z8PPL5PHp6espcC6O18LoUg3Fu7Vc+E8Wg63pB07T/E4CfADAD+E+6rr/c6zhqYsqrDFolzb3fHfkgIl94
Ndc0+sbVXJ/n3c997nRu6V/LezabzUoR09/P5XIANi0EKhqpzIgjVFJ4VAbyWeW9UBlIMS76fD6PfD5f9jfp++u6jlQqpa5H60bTNCwvL8Nms6G+vr7M/K+vr8f
CwgKi0Sj8fj9sNluZNWQUaTnoug6z2Qxd15HP57G+vg6fzweHw7HtnQLAysoKSqUSenp6YLPZPjNrwajoDyKflcUAXdffAfDOfo7ZSSkcRPsZJ1+1C88IuO11v1
KZ7edFy4lT7UI3mvuvQ6Q7Yxwfmsr0pbPZrDrGYrFss4okTiLPJ/+X72M/ylPeKxWX8XpUBMZrceHOzMygtrYWPp9PfW4ymRAKhbC4uAiLxQKXywWr1aqUA5Wdf
M8mkwkOhwPZbFZZPXa7HYFAANFoFADgdDq3PYOu6wiHwygWi+jp6YHT6fxMXIe9wNRq5DNTDAcVIs2VFna1IidpJb9vp2P2+s7rlIMou2qRcKPshl/IxSbvjcdx
Z5P+t8PhgNvtVmi9UeTYy0lq/JzXN1oXxoltVFi7+eeVcBTef7FYxPT0NGpra8EomKZpqK2tRWNjo7IyzGYzrFYr0um0ukfjmJtMJlgsFmQyGaWoaClEIhEAUAt
fRjX496GhIfT29sLtdld8L3tJJXeykuV36CyGg4oRV9iv7LYT7bWDv4qWPYjff1AL4CC+6E6LiSFIi8Wy7fwmkwm1tbUolUoKOASgADRN20TojQrLCKruFWkyTm
jj5/JejeeXykYqGaNykdjH3Nwcurq6lNWjaRpsNps6hsrBbrcjm81uuy7B2pqaGjidTqTTafU3q9UKv9+/TTkYx35jYwMDAwPo7e2F1+vd98ZnVAacS68LpzgUi
kE+6H5dCCMOsd9wTyXQsNpjK+0k+8Ux9vsSq3U5qjk3d1FaBcbxlia7XCBerxfJZBIbGxvKNOd3aGYzmsHr8Fq6rislxPvjTg2UL3ppOUosgYqJ596P8Ptra2to
aGjYBmhrmqYwFF5HPrt0KzjOdrsd6XRaKUpN0xAIBLC+vg5d1+FyuSr6/MlkEoODg+jp6UEwGKx6Lhif2eiS8j752X4tTOCQKAag8kKpZBrJz/mz0W/dj1Trakj
hYpHEnGplv5ZFpe/v95p7nV8uNACKRMTJz/Ck3EljsRjy+TzsdrviCBQKBdjtdvj9fhVSrKmpQSaTURECAPD7/cpNsVgsSKVSiEQiMJlM2NjYUKQgn88Hu92OQq
GA1dVVFdkAoKwZl8ulLBpGKuRY0eKRgKTZbEYymUQ0GkUgENj2HuSiImeB5+bfKVRYNptNKRC6IlQOAJTrZVS+6XQaw8PD6O7uRkNDw4E3FuOGuJeVtpcc2uzKS
iblbr7lQZTCQd0Ho2990OvudO3d/OtqnrPaScHvGUlPdCPkdbj7c7cnGchqtSrloeu6WohSGOHgQuPvJDDxcx5XU1OD2tpaeDwe+Hw+2Gw2ZboDW0ohGAyitbUV
TU1NsNlssNls6v6tVit8Ph86OjrQ1dUFr9ergFRaLSaTqQzE5NiaTCbk83ksLS0pchbvoZJbwf/pjjCUSbciHo9jY2Nj23X4ezabxcjICObn56t+d0bsxnjOSu9
wP3IoFUM1i9XoZ1W7wDlgrzJo3BU4sfYjcvJVC4QaFd9Ox+3XipA+uXQ/+M9sNitcgYrByPqjouCEtlgs2wBFGfrj96kUAJSFGDkuVA78u1yQNNe5EHO5nCJCUc
kAgMvlgsViUeQpvit+xtCixFfkfRYKBaytrakojKRXSzyF84nWFElaZrMZNpsNgUAAiUSiTDlI0TQNhUIBExMTmJub26YcjGzfneaQ0Q00fn8/cugUw3538P1Qj
ytd6yAm+UGuWQkwqlaMFtNeshcRbDeAVv7dZDKhWCwqvMBkMim6sUTZjbkO3FnpkkgLixTnmpoapUR4LioGk8kEq9WqFFMmk1H3wrG3WCzKQiC5SnIhNE1TlGvS
nXk8TX26MjLiQjGZTGhqakI6nVakqtraWvVM8nvG4+j+GN2KdDqNWCxWMbrEexgfH8fExETZ/XCe7mQ1GpUVj3kVOXSKYScxDsp+cYHdzlmt0Ep4FcBwv9q7Gkt
Byl6KTroxclEaj5XmvVQGNTU1Zb60TGqSConnlYueE7xQKCiXghRqnkNaAyaTCel0WvEnSLQqlUrq75IeXSgU1Duy2WxKCZFGXSgUlDJyOByKpRiNRrG6urpNOZ
jNZjQ0NCASiSAejwOAUiaSM2EUhi7luNCtSKfT29wKKbq+SaFmTgo/M2Jpld7rbr/vV/7RKAZgu2/+Kgu0WnkdIB8n836+v9973Y/JyO9I2nKlXYw7NtmGNI2lW
yEVAU14WglGkM6IL5hMpjLSlPwOsQqGAvmPOyt5CllcTgGjUjm53W5lucTj8W14itfrhdlsRi6XQzweRURCRUc5Dzul
QqYXFxEcPDw9vGf6/58Trm+KFUDK/TLNoJnNlLJEApsw/3Muvl3ysdt997rkYkDVj+v5dkMhm1yHeLkHAxcLeVEQkJvtJfl2xKqTw4Fna7HWazWSU6GcOjNptNR
```

QukYuCilzs2d3GpGKhYgM30aroZvBe3262sIbk4S6US1tbWkEqltr0Dl8sFv9+PxcVFdU9MEd9NyLKkcuC4BQKBMsVoFF5/ZWUFL1++VMlh1WyMr8NqOJSK4VW5
CUYxIu7ViDRd92OpGF/eftloB3luIxhazcThgieavxMSzu9xUhNz4KInOAlsgZ5SMcjJz0VE31+ayTKUKfED6T7Q4iD1uFAolKVq855dLpdSQlQcVCpms1nVcMh
kMkgmk+rZ+Lxer1ddQ46tz+eDy+XC0tKSUlSVsimNQjdCjoPNZoPdbt8GfFY6VzQaxcDAADY2Ng7ETziIBXFoFEOlSf0qSuFVwpHyHPuVSojxfk39g9y3MUS41z
VKpRJ8Pp9KKKJIIFJGJACUKQI+FxewfMZisaiASyoS8hAY9jObzWVhSllRidWgCHLSquE1HA4HTCYTUqmUqrnA+zOZNrMfS6XNFGwCk5wPLpdLFZFhsRlpMVitV
rS0tKChoQFWq7Xsupq2mapdU1ODlZWVfSmH2tpaVfhG13XFrKSCMyoH4/lIoY5Go/te6Adyvfd9xGcoOz3AQUlIHOD9uhCUV2GPGa2G/R5TjRjj2/uRfD6v/N1K
YVuZWSlDgPR3uQhlNICUZxKIjLu9/GcymcpCoFwktbW1ir+QyWTK+A0kDXHBsi4CLRgZjQCgIglUVMCWNVEoFNTxnCMm02ampd1uh8PhUJRpOcb8DtOsiR3QCtp
NrFYramtrVejUbDbDYrGUKdHdXLpEIoGBgYGKIOnrlkOnGCqBdPsxwyuZ/ftZoMbdcD/m/E7f3+0cxvvdj2KQ3IFqfU+j4pN1EmS4kQud/xhFIN7A6xr9d56Li4
+pyfw7LQapcGT4knRoYxiSxxM0zOVyamHLOD+zFY3VnYDNXdtms6m/SWuDyq6trU2NkdvtVpRpY7SmpaVF0aoJbMoozU7C7/HadHE4XpKdWcmtTKfTGBwcxMrKy
msD0ivJoVEMxkW108+7yV4Dtdd5XkUhGfGIaoU77Gf5koHtiDdQ7nfL7/AZSC6SOAl3Z+6QvG8CiLQe+LmMJgBQu72RzcjPufDJbzDiEw6HA7q+We2Ji0sqBkYj
UqkU0um0Uiomk0nhBsViEbFYrCz/QdM0eDwe+P3+snHz+/3wer1lOzRdgaamJkSjUWWZ1NbW7glG8hmMJCgqlUgkoiyRnd5hNpvF0NAQ5ufndywo86pyaBSDcXH
sJzwDvHo4k+c4KK5gDIcedKFXc1wli2Y/+IIE/ejn829y/KR/zwVFkpGkRkt6MNF6uhVGfkQ8Hkc0GlW7OZOraDGQn8D7kseTJs0dX5KM6EaQu5BIJJSJTsVAsC
+XyynSE0XTNFXQ1jjW9fX1KlmL3yUW0tTUpEKeAMoiIvyu8XwAlEsklYPFYikrvCvJZ0alnc/nMTIygrm5uc9EORwaxfCqclDQjnJQawEoLy92kOPlIt8PJrLfq
AXNc6L4vA4Xsrw+Fxh3VVpFEsGnmyGVCRF31oWU/ARgCxfg/5lMpgxfMJk2E5gYLeDxwJa1wSrR3EwkKEmwNJVKld2rMfeCCxnYnDtc5JXEbDajsbFRJXzJ8Xc4
HGhsbFRjA0BRp3nunYSYg+Q5MDksl8uptO2dpFgsYnx8HFNTU69dOfyjUQy7ccX52UHOKf8/iCsgr30Q5SSPrZbRWQl42u2YfD6PTCaDdDqNZDKpTF+eJ5fLbQP
ZGH2gxcDvcSEyHEjXQd4HP6evLKnVxC74d4KgwFaKdDKZ3BZt4N+56BlmlfiH1WpV7g/PL0FHWj10MTjumqahvr4elXqbcFytViuam5uVcpEbCXET3o+u64qLsZ
cQbKVyIMAaCASQy+VUEpfREpXKeXJyEmNjYztyIg4i/2gUg3FwXtVCoBBwO0gEAyh3Pw6iFA7iclRbLZumP811ugBcdDRh5c5K14DWgAznyYUuf+f3KbQW5GSXW
AQBSd4Dw5dmsxn5fF4tXFkxisolk8koa0GCr0z/JneB56YLwkxMch/kIjKZNitIG9+N0TV1Op1oaGgo21CM/6T7QwtoNyEhS0YmZOIVLQcZGZL3CGzlV4yMjJQp
8leRfzSKgSIHeic6abXHU9ns9zzGibHfezBOuv0ouWowECqETCaDjY0NhSnIe5ahxWKxqHZLTkzu5lzApB5zoQFbFaDkwgewDThkaJBKhPgBLRWJ5mezWcU85Lm
pNNhvQlaG4njQHZIWAyMtrFBFxWJkino8HgQCgYrvyEhw8/l8qKurq2ixyvkgWY4c193eKVmUVCw8lsohEomU3XclTG5+fh5DQ0OvRTkcGsVQaaCltt7LxK9255
VglfTr9yMShKrEGtxNpJY3HlfNfewW6zYqhPX1dWxsbGw7jrs2Pyc1mKa+XIQUhhDlfVKJ8HmoTNLp9Db+Ak1wTduqNs1sR2DLfWGjGBmm5CKXWZ68b94vTXlGK
6QbwcVZKBRUCrYc8+bm5rI6lru5hpqmoa6ublsRV6PlIMORBEV3E1oOVGB8T7W1tQgEAsjn81hbW9vRXaCiIIWahWwPKodCMVRSADv92+3YauSgQF8lkQqiWql0
vf3ev9GtMioEphHHYjFVjFTiKAAUuQiAMl2lJSSBR96jnLCSWARAAYVcvDJNW1oFPI4YhsylSKVSKtrAiV4pBMi/0aWSNRXk8bwmzXTpHvGZiB1UOv9O70USoaT
IHT0SiSAajSplS+VkFLk5GCMrVCy1tbXw+/3KcjBSuPks/GxtbQ0DAwOKDn4QORSKQaLL1QCLlTgPuy0uqcmNclDQkoBXtaFU470ad6Zqr8nJwonOHXBjYwNra2
tYWVlBLBZDIBBAX18fgsGgUh68vtxheT62hJMLXXIYZD6CxCPIWeC9SPcD2ErN5vhL0M+oGKhQaB3IKlk8J3ENad0QdOTnNMU1TdtW/l5aSgBQV1e3bYFXs9lYL
BY0NTWV9cTkM9bU1MDv9yMcDqvoiLSaqnErpCI2mUyqbycZl0ar1eherK+v48WLFwpo3q8cCsVwEHNeHnuQY6olFe2kgHhsNsxI7j7G6IfxnNXcs7QYiNBvbGyo
hKhgMIje3l40NDSo3dbYHIaLWS5gY86Arm8lT/G78r4loUtGGSpZDNJtIt7BrEq6IvIY/l2WjZMuhNEi4CJiboWMlMjFSFdCvg/JdNyv2Gw2hEKhimCw0+lEc3M
zlpaWkM1mVS6IEZCsdG1yLqRyYPQiEAigUCioxjWcG5Ws6o2NDbx48UI1wdmPHJoq0Zys1frrB1Um+wX7Kl2zWoVi/B6vaww5VXM/nATcndnn0WKxoK6urowrYL
welQktHCqzTCajYv/clYAt3IG7O31mCfbJ3YyLjtfkZ9Kqkr69BC35O4FIWhWMVlQC2giCcnfmvXABlkolxSWQYyxDoJq2SZ8OBoN7vsvdhOdYXV2t+Ld8Po/5+
XmlgPhMEhDeSWw2W1nPCmmNrK+vY319HYFAoCwsapxz8XgcL168wPHjx/f1XIfCYrDb7cq34uSQchAcQJ5L7s7y//2caz+uC1A5YrLT9au5H+lDh8NhrK6uIh6P
q5oIkjvAf5KpKM9DU1ua8pqmIR6PK7PdaE2QN8CFS0Vl3MW5MAkM8jt0M/g9yWmg+yGfE0AZLiEtFSoGaeGUSiUVjjU+G4+ha0RpamqqiF/sV4LBYMWOUiaTCYF
AAF6vFwsLC2oMZe1IuREa8QZN05TlIMfEYrGoEv1G+nSluZVOp/Hs2bN9PdOhUAyBQAD/6l/9K1y7dk2V3OKi5gDtZH7tZIoB5YVLXgVo5PUPwnGo9HO1bgywNa
mTySTW19extLSEeDyOQCCAo0ePwuPxKMyASUL8x1RfmddApSZ9Xnl/3O1lHoJcrLx/IwAmgTcex0gDTXgKJ7K0PvieubMbq0NRqLTkvJAYiMyNoAUkXR0+a21t7
TbQcTeQezfRNA2NjY3b+lXyGRsaGmCxWFQdB13XVWq58bt8VjkmrHYlcRtjtEIyWSs9RzUWipRD4Upks1k4HA784i/+It544w08efIET58+VSCL9K+NIsE4KcaF
aPxsJ5EKxKgMDuKLVgOm7iQEAIvFopoIBMukGV5pARujFpK6zLHiAqQSoeIoFAqKayAtAKkIaBFIcFJaCHwvXJRywksrRloA/D2Xy8HpdJa5FfTNJWlJuix8blo
KctHp+lYnLV63vr6+bCEfFOOi1NTUoLm5GdPT02oRynnU0tKC6elphMNh1NfXK5CRGaT8npFnw2e02WyK30HFbjKZEAwGsb6+jrW1NQSDwarYltXIobAYotEo7t
y5gxcvXiCfz+PLX/4yfvd3fxff/va30draqur5Gye2caHSfdhpIe53x99JGVUjB3VbgK3Q3fr6uurA5HQ61QKmwpD/6F9TOBY0PY3IOyWVSinmoVyssqGr3I34G
d8BoxEyaYq7onQbpOKWboZ0W+TPNLW5yPgeGGbl+XkNMjyllcl7Z+hVhltbW1srkuUOOlcAqOa4laxLpnSzriSVMKnTMkRZaX6bTJsFaOS7oIIkIEnL4XXIobAY
TCYTHj9+jOHhYfT09KClpQV1dXU4f/48zp07h7GxMdy/fx/T09PIZrNluzonWDWacrdFKv/GF/Kqu0gloHEn4e6YTqdVpMFsNqudzRjJ4EKWu6bRpJfxePrzXHA
0s0lGkqam9NeJAfAafCa56I0RC/5Oy0JaMTwfiUsyp4Hp1twAiG1wY+Dip5KTLo08L8dI4iDS/bDb7dtAR6NldxB3AtgEHEOhEJaXl9UYUWpra9HW1obJyUmYTC
a43W6VG5FKpbZZvpWsYIfDob5LxQBs4hxra2tYW1tDIBCoKv17Nzk0iuHYsWOqtFc2m0UkEkE4HEZzczOOHz+OY8eOYX5+Hg8ePMDQ0JDK5z8oblDpHmT8W8p+o
hjGyEU1CoEvmJV5crkcQqEQ/H5/mbXEe5E7ISe/0XwFygk3xklGHIfRApmLQNYjTXBeS05cLkT+LK0NmYBFd4IVnQhcUnnIHbBYLCKZTCoFQcVELERaRVRKHBsq
GM4hKiOeS0pTU9O28u+vYxPg/yQjra2tqc/4jE6nE62trZibm0NNTY2qP2Gz2bbdZyWRLojRbWKvzHQ6rcrfHdQCOhSKIZPJ4OnTp2UmVCAQwG/8xm/A4XCoXaS
urg6/9Eu/hHA4jEePHuH58+eqPn+1Yc6dZDe3Yb/YhPx9t2PlImdFIa/Xi8bGRnWcbL0mjzNiIbQepGKTnAcueumLUyHxfLW1tWpX5gLmP7l4JZDHe5MVn4xFXo
nES0uElh/9Zf6Nn9NlkAqHrEbpTvAZZcSBRCzOCwKfJpNJ7dqvU4xRKwKO7FkhRdc3i83mcjksLCygvb1dAZFWq7Ws+a88n/yspqZGddjme6TFHAwGtx1/kM3zU
CgGt9uNS5cuKcJOKpVCe3s7nE4nvF4vNG2zMMXKygo2NjbQ0NCAr3/967hx4waeP3+OR48eIRwOl5F0KiH/Oy1SaXLvxzowitTOu6Hb3Illt2gy+JiCKxe5dB2k
CyHdBZkUJXd1Xq+SdSVrDlIxmEwmlbBDJSHHRmZNynPS0uOz0VLgdZgDwWgHMQBaTGQIyjqQvL98Po+NjQ1F8aUFQveD98N5IvkYssI1sMl0NIKOB3nfRrfDaCG
yhgOVnXHsWXNhYWEBbW1tKtIgwXaKMYxJS8Fut5eV2jPiNgQoD/J8eyoGTdP+E4BfALCi6/rJTz8LAPgrAJ0ApgD8qq7rkU//9ocAvg+gCODf6Lr+k72ukUgk8P
LlS8Vn8Hq9OHPmTBmnwWq1IhqNIp/PY3x8HNPT0wiFQrh8+TIuXryIwcFBPHz4ELOzswr1NoYrxTOVXd/ov7+qVDoHXyiTjGTmoJwM2WwWHo9H/U0uSGIBRvyAf
68kcrdhIpRUYAwPcpJls9my6syyC5WkO0slLIFCqTyoyKSSJlFK/l2GSPm5tAiYISop2FzQHEuJW9CCsVqtalHyWi0tLWUY0kHfd6U5ZVz8LP4yOzu7baMymUzq
b4uLiyp0yns2gq6VhBElictQQUjFfZBIRTUWw38B8P8A8N/EZ38A4H1d1/9Y07Q/+PT339c07TiA7wI4AaAZwHuaph3TdX1XqJSani8xk8nA6XSWxdkLhQKePXu
G+fl5nD9/HktLSxgbG0NbWxsaGxvR19eH06dPY2JiAg8ePMDY2JgyL/fys16HMtjpPHyxTHJiuzSv11sWIuT9cUFwt6YY3RQZ2pIxe6PZKZUIsNUAlguUCkAuYH
6HICXvkeel+S/FGBHh9WQoVUYSgC2FIi0PGVI03ifHhfciwUcqJp4TgErRppJ1Op2oq6srG8dXtRSN78UorDa9tLS0zcJiGHNqagqrq6toaGiApm0mdlF57uUiS
+VgJAdKl2q/sqdi0HX9I03TOg0ffxvAlz79+b8CuAng9z/9/C91Xc8CmNQ0bQzAZQB3druG0+nEjRs31EP4fL6yMuLAZkmwpqYmTE9P4+7duzh//jxWVlbwzjvv
oKurC0eOHEFjYyPa29vxz//5P8fi4iIePHiAwcFBxOPx1wZSAuVA014Tigs8k8kglUrB4/GouoDGFFpqdr5QmoL8XBK3pBUhQUbpPhgXI015CfJyXKQSYu0EuTM
b8QsjyFppfChSMRmLzxqBUWO0RY6RdK0kdkChUuGCojvDc8qkJ6OFuNs7NLoK8r3vpUwqgZFSGMacnJyExWJBIBCArutlHAfJ8eBz8Xeew6gceF+Sv7IfOSjGEN
J1fREAdF1f1DSt4dPPWwDcFd+b+/SzbaJp2u8A+B1gUzF8+OGHChz6tV/7tW18hKGhIYyMjOD69et4+PAhHj58iBMnTuDq1au4d+8ewuEwvvKVr2BychKatplj/
+1vfxtf+MIX8PDhQzx//lz5zpXwh72kWnCRk57KgAvc6XTC4/EA2ApNyni+BNHY+4ALwMhqA7Btl/30XZQpA7kbEnikH8t7kwVSacbG43GVbSktBnl9o6Ujgcbd
FINxLI1ujTF2X+k9GReG8XOOmwyD1tbWqpqOr2ohVqsUKJq2WTqOY8v74zhYrVa0tbVhZmZGVZCmcjDSuHcSYhR8b8CWkpUEsmrldYOPlUaq4lPpuv6nAP4UABo
bG3VWqvF4PIpCKid+JBLB0tIS0uk0Ll68iBcvXuDZs2fo7u7Gl770JTx8+BAffvghrly5gmw2i5mZGTQ2NqK5uRlf+9rXcOPGDTx79+BAffvghrly5gmw2i5mZGTQ2NqK5uRlf+9rXcOPGDTx79gyPHj3C8vJyGVi36wNVcE
MqKQVqaioEht08Hk8ZUChBOaYLy6iCNCON16p0PYpROWjaVvl3AnB0G5iN6fV6leXCiUjwju6EtBSk+yLvZ6cknkogWiXTtpIik/iQ0R2Sx1VSOhTeL1mjzGfYr
/uwk7WwHzGCkcbjmY2ZSqWUYtA+BYRlApsRiKSUSqWyyI8ReNypwMtOclDFsKxpWtOn1kITgJVPP58DIGNBrQAW9jqZxWJRPIa2tjZYLBbV9kvTNCQSCRSLRZw9
exaffPIJ7t69i4sXL8Lj8WBsbAypVArXrl3DkydP8PHHH+PMmTNIJpN49uwZjhw5gs7OTjQ2NuLSpUs4f/48hoeHcHcf/+fczNzW2rFsz/jZOgEtgElCsEhqfy+bz
qyCy/z/PwhWYyGYUz8NrZbBZ2u72sDiKPly4EUFkZAFAJQ7I9PPENWg319fUKrCOwSLS7vr5e5f3H43GYTJsdoi0WS1k5NkYYWJaM15J0bQmGEQA0jiufhTiHlJ
1cFqO1xM8q+dX05Q8KOhrf20GFRWEIkPPcvHe32w2bzYZsNqs2CFqcO4GRMsTPdwFAKQeO+X5xhoMqhr8B8JsA/vjT/38kPv+Bpmn/HpvgYw+A+3udLJ1O4969e
zCbzejo6FCTiS9/dnYWd+/eRU9PD65du4b79+/jzp07OHv2LM6cOYNnz54hlUrhzJkzGBsbw+PHj9Hf348zZ87g1q1bmJqawpUrV7C4cOHCBAwpUrV7CxsQGHw4Fjx47h5MmTCqgc
Hx8vo8xWMnWNk0my8ejbAZupsoFAYMcXwXOwOrKc8Dyf7NkgWYXyuxLso9ksIwbAJnBH66VQKMDhcMDv96uFKvEFaaEQ+JVEGuIR8h/NXE5GmQ7NxClSfnk9yda
T36NC4bhKV4nhSYYmNU1TTWKpXPncJFLJ8bfZbArYo+xn169kNR5UCEYuLCyU3SMXMEW6fXwmo3LYaY4RR6HSrwQW7yXVhCv/D2wCjXWaps0B+N+wqRB+qGna9w
HMAPgOAOi6/lLTtB8CGABQAPB7+h4RCWDzxXV1damMN7lg+AK9Xi+GhobQ3t6ON998E/fu3cOjR4/Q29uLa9eu4cGDB7h37x4uXrwrXwIl8uFgYEBtLW14a233sKDB
w9w//593LhxA7FYDPPz8wiFQmhpacGv//qvY35+Hvfv38fg4OC2fgRiHABsVf5lTYRkMqlyGGi27sVX1/XN3o6SUQhsEXCqNftoKsqyalQoyWRSJUI5nU7FhJPk
JC4gEpOSyaTKyLRarWXt5mVlJGklyQknd2sqApklKSe0ZJpSYUhlzDHmWJLhx7ELBAKqnqXH40Emk1HWHy0jWjahUKgMyJbvsxqRG8ar4hOatllQNpvNIhwOb1M
2xiI6HCeWhjNGf4z3yM+JT0jlsB+pJirxz3f401d3+P4fAfij/dwE/aOTJ08qoIgKIZPJ4M6dOzh37hwGBwcxcHERHRweuX7+Ox48fK0
vi/PnzePr0KZLJJC5fvoznz5/jZz/7GU6fPo1EIoFPPvkE3d3daG1tRXNzM/7ZP/tn+MIXvoDHjx9jYGAA6+vragExCYmLj7UJ8/k83G63wgqM0QP5YqV5S/BJk
nE4GVg8hTUYjbuV3LHpr9INoHVAH5amaSWEn0ohkUggk8nA5/OpdG5OLLo1xgzJStmDktdA5SOzLWVhFhmS5OI3ZkNK3oakU/NYskUDgQCsVqsiP/Ed8b5kerW8
32pFLiip3A6iIKQL1dDQoDpO8W8yjMux0XVduQKyIa5RKmE3RuWwHzkUzMdcLofJyUlcvny5LCQFACsrK5ibm8PCwgKuXr0tGNa9wQ4l8uF4eFhhTO4XC5MTk4ikUjg8uX
LePbsZ4+fYru7m5lSdy/fx/nz5/H3NwcHj9+jL6+PnR1deHnP/85bDYbvvvKVryCfz6OjowNf+cpXCQPGCgUQl1dXdmOxklrBOXkS5M/E+zjpKDZyN2NlovEILhAOEEIMMbjcRWz93g8Ct+QVoFcuFRujE5QmKHocDiQTCaVYtB1XbkVBAsBqMUr+Qi8R8nEMyo2qayMACW/Z8zqlJaOLBFPmjXnE
rBldXi9Xni9XvXZQWQnd3K/Il1CgpHZbFa5ZBKkNioHjhcjD5XciEoWBK3v/WZdHoq0a4fDgdOnT6OhoUGZTBKMO3nyJPL5PG7dugWERugNrBaX+v
x6lTpxCJRHD79m0cP34cP34cP34

sarQ8jE5PjVcnCkdhJLBZDPp9HLBZTrgOzMYEtULi5uXnbbrkfrOB1KQXjuYDNudbS0lJWmFcKXSGjy8nCOzuJEbuopny9UQ6FYmA2IRNJgC025M2bN1EoFHDt2
jVomoYHDx4gm83ixo0b0DQNDx8+hKZpuHLlCgqFAm7fvo2GhgacOnUKS0tLePr0KS5cuIBgMIjHjx+jWCzi4sWLWFpawsDAAC5fvqz6ClAzk4ZL0xzYmkzSdeB3
ZcgRKCciScKJPIaT3NishUAh49IyOYm7cyKRUOXhWfOxrq6ubIJJZUN/dmVlBZFIBIlEAhsbG4jH4wrYY46CjDrwHqT5zPwVh8Oh3CASp6gUZH4FsGX5SHeAO6O
cxDIHg4pNjiW/UygUVDeqdDqtKj/L65rNmw1yJdORz7CXGBdwpajIfmWn67L3JXGASt8rFAqYn59HLpcrUyrS0twpjMlr71SPYyc5FIqhVCqhrq6uLE4ObIJI6+
vrePnyJRYXF/GlL30JDocDL168wOzsLL74xS/C4XDg+fPnWFlZwRtvvAGLxYKHDx9C13VcunQJiUQC9+7dw7Fjx9DV1YWhoSEsLCzgxo0byGQyePbsmWIiSsUgs
9y48wEosx6IC8jJK3/mSzT6jnzBRJ3lpLNYLLDZbCiVSgrcZA5DLBZTiWRWqxUNDQ0qNduoDEqlzR6QKysrWF5eVklIVHiattXWjWClBASLxc3uVLI9HM9PwhaV
pCRjGd0GLnYAZT8D5T60/J1jJseFlgCvUQkgloVaTCZTWT/Kg4QopbJ/VWthN/H5fKqqE7C9QAvreo6PjyvLwWTaosFTdgtJvnbw8R9CamtrVblzYOshwuEwrly
5gnv37mFiYgKpVApvvvkmHj58iOnpaaRSKVy/fh2ffPIJxsfHEY/HcePGDTx9+hQvX75EZ2cn3njjDTx48EABmG63Gy9evEAqlcLVq1exuLiowmS8tswglOE1AC
qPgxNX5hjQVZC+pAQlAZRlvdEaodVAxUKfkwBlPB5HOp1WO7bD4ShTOpwQ/FkqAOIR0sSWz8hnJglK9paw2+1IJBJlMXUAZQrC7XarsCiVggQpJeZAK5BWFj+jU
jEqNikSwJXHSe6GDJcSdKy0sKtZJEZuyGctdXV1SvkD5fdoNpvR3NyMYrGImZkZdHZ2KsVFtiplv3yFneRQWAx+v39bbkSpVML9+/fxySef4Nq1a6ivr8fi4iLu
3LmD8+fPo6OjA+FwGLdu3cLx48fR3d2NcDiMu3fv4vTp02hvb8f09DRevHiBq1evwufz4eHDh8hms7hy5Qri8Tju3r2L9vb2Mt4Ed7l0Oo1oNKrMUk5WlluXSgF
AGX4gQ29UClQSjNNns9myLskEluhTptNprK6uYnl5GZlMBh6PR1VzotKRSoFdiubn57GysqLwA5LDZCan0ZznvTEJiffN1GbeszxO7u4WiwVOpxNOp1NdB4DCQn
huFlqRmIK0vGT4kqCs5DTIZzburpI6TDzE5/MBOFg1ptehEIzKazcxmTazLY0dt2Ukpbm5GbquY25uriwNf6cuV68ih0IxAFBxdk66WCyGpaUlhMNhtdsfOXIEG
xsb+Oijj9DZ2YkTJ04glUrh9u3bCIVCOH36NJLJJG7duoWOjg4cP34ca2truHfvHk6fPo22tjYMDQ1hdnZWJW2trq6WvUBN0xQFNRaLlVkTuq4r1NvI5uOk3o3y
y2MY/ydnIZVKKQslmUxieXlZ0bb9fj/q6+sViYjn4zlzuRxWV1cxPz+P9fV11eaePrjkXUiyFO+VLFOz2azCnOl0Wk08WffAyCuw2+2qMC3xITI+pXtA/MFIyjK
macu/SQtMApmV/GmOQ6lUUuPa1NR0oPi9cS78Q0pNTY0qaS8jURSzebNWZSqVwvLychmz0ehWAAcrXqyOPfCRr1HYXg2AesFWqxVf//rXcezYMRQKBXz00Udoa2
vD6dOnUSgUcOvWLdhsNly7dg2lUgl3796Fruu4fv06dF3H7du3YbVacenSJWQyGdy6dQttbW04fvw45ubm8Mknn+DKlSs4evToNl+SGYipVKqMcy53fCOQKE1iO
akIpkmlwL9xB+UiZ5ShWCwiGAyioaFhm0LgwkilUlhcXMTc3FwZoJhKpRQXBNje4YnChSzpyyz6IZvSsq8BmYeMVLCNGgDFkiSF2263l+EPEmDlGMiIDJmX0i2Q
i5JjzbHk36iwZPEXm80Gl8tVsSP1biKVwau6EK+iVOx2OxobG8tcOs4rYKtu5MrKCqLRqFr8VOBSXsWtOBSKoVgsqlhzOp1GIpGAxWLBqVOn8N3vfhff+973cPH
iRQwPD8NqteLatWswm8148uQJ1tfX8eabb8Jut+PFixdYWFjAG2+8AbvdjidPniASieD69eswmUy4e/cuLBYLLl68iHg8jvv378PpdJa5AdIclwlE+AAowlL64TO
uVO6KMHTMMSM4AFwPNf37HZrOhsbERoVBItXU3xvU3NjYwPz+P+fl5Fb4k2Yq7PxF9yS3gzkKXTbpBnMjEGQi+0kzlcTInwrjDy3Z23O0JUEqaM4Ayt8KIfxgBX
b4DPo9MK6ek0+mycLDb7d5mku8lEmz8h7YUjOLz+coUm8R3yDFpbm7G3Nycsu6ALZr+65BDoRjcbndZ1Zm/+qu/ws2bN7G4uAgAaGlpwTe+8Q381m/9Ftrb2+F2
u/HWW2/B4XBgeHgYw8PDeOONN+D3+zE5OYkXL17g+vXrCAaDGBsbw9jYGG7cuAGPx4Nnz54hEong6tWraoeTrdBKpZLqZ0FwkIuA/SG5A1Ip8GcJzvF3KgVZDIW
lylZXV9XuyEgF+RRSIRQKBUSjUVXtJxaLIZVKleUqGIt7SIVAhcHENIqMkjA0S4UgU8ZpNckwK49Lp9NlzW8BqGvyHwFT7mjkZ1ApSLxCgpJ8Hr4D+Vz8TJaN13
UdR48exb/8l/8SgUCg6vn3OvgJr9v9qKurg8fjKTufVA50Maempspoz69LORyKqERNTY0Kl3Fykprc2tqK3t5edHZ2wul04ty5cwppD4VC+Nu//VssLy8jnU7j8
uXLGBwcxMzMDG7fvo0rV65gYmIC09PTKl17YGAA4+PjSCaTuH79Olwul4oJc3C5KIy1C00mkyIP0Z+tFJ2QvAbueKxdyB3eZNrsE0CqNc8NbPHhSeRhfQT60rwX
GfmQLolUCDKbkS4NsLVrS3OTNOO6ujq12AiKFotFRcmV0Qbje6Sbwd1dJj6R1CV7SBJIlM8BlJOdZLxecgp0XVfKm0q+vb0d7e3t0DQN9+/f35HxxwX3OhbR64p
eSJCbeAProBrFZDKpupGTk5Po7u5Wx1sslrJIxUHkUCgGTdPgcrkU6v+9730PY2NjGBwcxPT0NKampuD3+3H06FH09fWhrq4ODocDR44cwb/4F/8Cw8PDeP78Oe
7evYtz587B4/FgcHAQH3/8MS5dugS3242BgQHcvn0bFy5cgMfjwejoKAYHB9HT06MsBi4i4gCSp0//m5PdqBQqkXK4WHO5nEpq4rMy5KjrutrtuRgymQxisZiqH
C0TnyrRjHkftFD4v1xE3PHJSpSLmgtO1kyU92O1WpFOp9WOb1ROdDOM3aI4hhKwpIUma0RwzIg7UJlI5cH74nPwOHlfmrZJgHvrrbfQ2tqK8fFxrK6ullkylX4+
6MKWx7wO5SCtTE3b5Jmw9JuROs7rNzY2YmZmBjMzM+jo6CizHGRVrv2KZrzY/wo5ffq0/s477wAob9NVKBSwurqKFy9eYGxsDOl0GjabDc3Nzejv70dHR4cCx3K
5HObn5/HixQt4PB4kk0k8fPgQpVIJp0+fht1uV8Sn8+fPq8X+9ttvo6GhoSxl9+HDhzCbzbh9+zZsNhsSiQTm5+cRiUQQDAbLBl2i9QxBAluMQ1KY6RsSTJSmN3
cJ9qck+5EgIE16Lgbp9vAeOBkocgEAKGMkAuXKRIaKLRYLmpqaoOu66nmgaZpqnhqPxxGNRhV4yWMl+Cp5DRQqU2ALkC0UChXvi+awVATyXDJtO5VKlRGxzGYz3
n77bXzve9/D4uIibt++XTFb9VUthtfIMshwtpFzwc/C4TDm5uZ25HZks1lMTk7C7XajpaWlLP1eKoePP/74ka7rF6u5r0NhMbAeohEwYj/AlpYWXL9+HRMTExgY
GFBWhNfrRU9PD3p7e1FXV4ejR4/iyJEjqpp0KBTC+++/j6dPn+Lo0aN44403cO/ePTx8+BB9fX24dOkSAJSZspIXIIE2gmnEDHicnHQ2m01ZCNztNU1TlZLolkh
lTHpvJBJBMplEsVhUCU4E0gBUNN+5y3OnNgKetDb4mUT0CSzKUuvAlo/PiAIXDhUgsQriB1KJc5FL852KhQpENrbhGJNKzfAvo0JcGFIZ8l65ICr59Q8fPsRXvv
IVdHR0qEKsRgxEAnr7ldehFIxkMePv8jo+nw+ZTKbM+uExVKTt7e0YHx9HbW2t6rLFMaw2jV/KoVAM4XAY/+E//AecOXMG586dU7kLUtxuN86cOYMTJ05gZWUFL
168wMTEBO7fv4/nz5+jpaUFfX196OjogM/nU5TYQCCABw8eYGpqSjEnHz16hKGhIRw7dgz19fVlOxMnP8lNNO/cbreq1QBUrjAsUXYZwpMTmkLlEYlEVNFPeT7+
nMlkyliZ/Gdc2FIpcKeQpjjvgTu9kbrNSASVEqMbbEJjtVrVgpVVp6jIpKkrw4lWq1V1a+bfTCaTwiF4blYpkgVqZRRCPgPHSKat85qlUgnRaBQffvghfuu3fgt
9fX1YW1srI2cZd+Zq5HWEMXc6p1RQlc5fU1ODxsZGZDIZVYNCChmQra2tmJ2dRW1tLbxe7zagfD9yKBSDyWRCNBrFT3/6U/zsZz9DZ2cnLl26hP7+ftVwhoNXU1
OD1tZWtLa2IpFIYGJiAs+fP8fk5CQmJibg9/tx7NixbVZEOBzG8+fPMT4+josXL2JkZAQul0stXF6DlGW+AJkDn8lkVPhO4giSdMOdUVofwNbEZoZjJBIpS52Wu
7PT6SyrtcBCrSQO0Z+XQlBPovfSXWDRFckk5MTkscAWPRrYKj1H4JHH1tTUqJRt405Mt4duE8O6xEkIeBpxDroCtCAk+MmJzfNL607SzYn3AMCjR4/KrIaFhQU1
16SVYVRmO8nrVgq0eqq1WszmzZ4Y7Esij+c4sl7qzMwMjh49qtxWY6JeNXIoFIOmbeUAsKHM4OCgajxz6dIltLW1KVINX5DH48Hp06fR39+P1dVVDAwMYHR0FHf
u3MGTJ0/Q2tqK48ePo6OjA/X19fjqV7+KVCqF+fl5tLa2qjqGUiKRCDRNUyXUqQRKpRJcLldFajHDeSTvGCm8VAhra2sqXZjIPBcSUF6/z+VyqegLF4LNZiujRF
NZ0V2QqL6RtyB5FnSH2P9TTjCa+bxvZlvKSWwsUErAjAqBLFaej8g6TVqpiGV0Jp1OIx6Po6amRjW+ka6XHFNjEpVx4icSCbz33nv4/ve/j+PHj2NlZaUMWOUY7
bXYXzfASNkvK1PTNjMkm5ubMT09XRbZ4d91XVcRpcnJSfT09JRVvdqPHArFQKEvShAwnU7jo48+wq1bt9De3o7Lly/j5MmTZZlowKYv1dLSgubmZoVFvHjxAlNT
U5iYmEAgEEBvb6+yInp7exV7kNfiSyLbkRmIXBx0J2RoUOYFyEUsTeF0Oo1wOIyNjY1tEQYeT0KP3OFramrgcrnKujDJaEkqldrWlQrYCtvJrEgufgAqKiEXlqR
2S4uHfAaPx1MWcjVGHyTuQPIUwVMJQnIh0sVwOBzKapPRCLoyMrwpQV4qZaPVxGtw7J8+fYrp6WkcPXpUdX0yWgr7nZ8HFelKGc+1H4Xj9XrR1NSEubm5iu4BIx
W5XA7T09M4cuRIWTHZauVQKQYKJ6nL5VJm9fz8PP7yL/8SLpcLJ0+eVHRmmkucdE6nE6dOnVK7xODgIIaGhnD79m08fvwYWbW1tOHnyJFpbW1UPQ048mtFWq7WMc
ccdlIMrO1AbeQQAFENxfX0dsVisLMNR1mcgMMQXzAVHZcMFJ62OSCSyLWeA52OdRloEklqcTqeVIuE90FynmyFNzlwuB6fTqbgcLOzKZ3A6nQr/kPRdhlplHF1a
FXa7HS6XS90nIxgyxRzYimJQWaXTaQBbFaOkMjQKF2EymcR7772Hrq4unDhxAktLS9uqM/9DiDF0bLz2fu8lGAwinU5jZWWlzJWQkZbW1lZMTExgdnYW7e3tZS5
XNXIoFIPT6UQwGEQsFttGeZWINsG9e/fu4d69e2hqalIl4dmLQqLuTU1NaG5uxrVr1zA1NYVnz55hfHwcIyMj8Pv96Ovrw/lNTU5iYmEAgEEBvb6+yInp7exV7kNfiSyLbkRmIXBx0J2RoUOYFyEUsTeF0Oo1wOIyNjY1tEQYeT0KP3OFramrgcrnKujDJaEkqldrWlQrYCtvJrEgufgAqKiEXlqR
2S4uHfAaPx1MWcjVGHyTuQPIUwVMJQnIh0sVwOBzKapPRCLoyMrwpQV4qZaPVxGtw7J8+fYrp6WkcPXpUdX0yWgr7nZ8HFelKGc+1H4Xj9XrR1NSEubm5iu4BIx
M10pL/LsFkmk8Hz58/x5MkThEIhnD9/HpcvX0tZfTyzebMAZ2Njo8IiHjx4UIbWezwerK6ulpn7DoejbIHRBUin01hcXMTa2pqKy9NC4OSU3AOJZdA3l2nL
jIpwZ+RiZ0l3LhQAyj/npGMeh8xclNEHVp7mdYwAKYFTgqd0RximdDgc0HW9rA2a2WxWBWRk9qXT6YTf74fT6VTjJCtrSxyFilBGJThWPIZAMGtO0oKRmIOR4yA
jGC9fvsTY2Bj6+/vR1taGsbGxHeeikVx0EDG6eJ+FUgA250BbWxsmJiZ25Cq4XC6EQiHMzc3t69yHRjHcvHkTra2tqK+vR319Pa5fv47r169jwkJlW1NWXiy7wDAmYy4gCUN0RxOp1liTC
l0lah1kwmo/IhgE0F5XK51GIjMQnYqufIxcaFygVWW1sLh8OhisTwPiTIx/Bse3s7dF1XlojJZFJ8hkKhgMXFxW3RAi584g0ej0eFcangstmsenccFyo6qfDoMv
CZTCaT6tvB55FuDK0LulM835UrV/A7v/M7iMViePy996tiBb4Ot0HiN68bvAQ2rcDx8XHFd6l0/ng8jpmZGTQ3N+PevXv/+HgMsVhMNaZdW1vDwMAAhoeHsbi4u4u

nle9Q0zYp0aTiH/ReDoViYPHOwcFBtLS04MaNG3j48CEGBgbQ0dGBa9eu4fHjx3j48CH6+/tx8eJFPH36FPfv38e5c+fg8/kwMTGBTCaDixcvYmxsDG63G6FQCP
X19bh8+TIuX76s2tINDQ2pbtY1NTUIBALQdb2s7Rf9bC5+Yhe1tbVqETMxhb44F5vc2aW7wagEF4uslyBdDIbzGF2ga6LrugLMqMRo4cj0cFKOgc3FwXJyVAhSa
B2wqjMnGUHWfD6vyt9lMhkV8amvr8eXvvQleL1ezM3NKQp4NBoto33L/xllsVqt8Pl8CAQCWFhYQDgcLjP799p5aSHQyuPYyfAlvycxB+7AY2NjGBgYwPnz59HT
04MnT568ktVgdBleRSlUwq/k3yp93yhmsxltbW2KGPeP1mJIpVK4cuUKXrx4gfn5eaRSKVy8eBFDQ0OYnp5WnayfP3+OwcFBtLW14erVq3jy5Anu37+PkydP4sy
ZM3jx4gV+/vOf48yZMxgYGMC9e/fQ3t6OY8eOoa6uDj6fD2+//Ta++MUvqtDn0tISvF6vKmxKgIzAFnMGSPQBNndWidKzZJuMt8vFQAViMpmUxcKd2IhVUIEwFK
hpmmpgm0qlFDgIQCkPYhAmk0mBkGQL0l2QVGUqL1oV0nJhlW4qEFmPQZrn7ONRKBRw6dIlZSXQbQO2Erp4n06nE6FQCI2NjfB6vcqyiUQiO4KOkkUo/0brxel0Y
mNjAybTVu8MyZkwLni+g5/97Gc4fvw4enp6MDo6um+rQWJNr+qKUIyuw14KZre/W61WBUbKEHW1cigUQ7FYVB2m3G43JiYmcPfuXZw/fx4ulwtjY2O4f/8+Lly4
gNnZWUxNTSEej+P8+fMYGhrCJ598giNHjuDSpUt4+vQpHjx4gHPnzik3IhwO48tf/jKWlpaUgjh27BiOHj2qKM/cHaPRqAIbaRqn02lVxoysP2CraQoXOXkA3P3
oNjAGL9mMMmoiFYjNZoPX6y2riMT/JdgoFwwtFXIt6N/LGD99eyL6rO5Dd0TmhMiybeRDcNJSIa6trSGdTsPj8eB3f/d3VT0N4jPkKtDdYDTJWMWY/SUJSu5kjs
sSaJKMxmNpoVWqR2EEIXVdL7Maent7VcPjakRiCvz9ILvyXgDjXrKXm+DxeNDW1oapqal/nIVabDYbcrkc7t+/jzNnzuDs2bOquOvp06dx7ty5st89Ho+yCKg8i
DBfvXoVAwMDmJqawqVLl9Dd3Q1d36Q1u91utQNLHoLNZkM4HEaxWMTc3FzZYpc+P7EBFiBlUhf/TnOVi5CovqTwSgBS4hoytBmLxcpIT0YAkngD2Wxsm8dcEIJy
xB1kSLO2tlaVkItGo2Ul40ly4qKmouOiIhvSarWqjlkscX79+nXcunVL3afH40EoFEIoFFLYSCWij81mQ319PWZnZ9VOD+y8OPg5eRpkW8rkKqaGG8UY3bh586Z
iv46Pj5cl8e0kUkHJXJj9ug/SwnxdUkmp1tfXI5PJqFYM1cqeikHTtDYA/w1AI4ASgD/Vdf3/rmlaAMBfAegEMAXgV3Vdj3x6zB8C+D6AIoB/o+v6T/Z6IOIGjx
49Qk9PD65cuYKnT5/i6dOnOHLkCK5evYrHjx/jyZMn6O3txeXLlzEwMIDJyUlcvXoVx44dg9lsRiAQwJEjR6BpGqanpxGLxdDa2or33nsPkUgEp0+fxvnz58uy/
CwWC2KxGB49eoTJyUnYbDYFMnLnZ60A7obcGY257pIZSGUh8QO500hqMHEN0n35d8kUpHLj90lH5neYmFQsFmG32+H1ehEIBFRSWT6fRyKRwNramopi0Eoh54A5
FRwbFrNtampSCUp85pmZGfT09CCVSuHs2bMIhUKqQTErbwF7M/9aWlrKJq4xCUmKzIWgdeByuRRjkoqUSoaWFEFIyYqcmJjAy5cvcenSJfT19eHBgwe7KgZj9MF
YfrBaqYSlHESMUZxKVgsrP+1GAa8k1TxZAcD/Rdf1x5qmuQE80jTtpwC+B+B9Xdf/WNO0PwDwBwB+X9O04wC+C+AEgGYA72madkzX9R1HnA1cr127hkePHmF0dB
SJRAJXrlzBJ598gpWVFdhsNnzrW9/C4uIiPB6PqhRN0lI6nUZjYyPee+89xGIxnDhxAul0GoODgxgfH8epU6cwNDSEkZERnD17Vk2S1dVV/PznP8eTJ08wPj6ud
k8JPFIpAFtVjKkcaJLzb5yQPL+caNJCkDuf7F0JbKVh0xRnw1jeF1vSEQuhGyNDdl6vV/VXYIa3STiGVQKLMPGXZasR2MDGoKsjEzQujKZNtOA33rrLZWxWo1w
YjPhikAZralKdQz4OxVuLpeD3W5XWEsll4L4g3Eh5/N5/OxnP8PJkyfR19eH0dFRlT36OqXSAn4d1sJuikWOlcViQWdn577Ovadi0HV9EcDipz/HNU0bBNAC4Ns
AvvTp1/4rgJsAfv/Tz/9S1/UsgElN08YAXAZwZ6drmEwmLCwsQNM0vP3225icnITH40FjYyO6u7vVYgiHwwgGg1hdXcXt27cBABcuXMDg4CCWl5dRX1+PkydP4v
Hjxyr8eenSJTx58gQPHjzAhQsXyuoX5nI5PH/+HAMDA2rik/4r2XQsqsnBZpMYTkxWgeIOS9yA/rkkGTG0JklLEnzkbkKFwOsSeGREhPcoayrKDEx262YbO2PVK
IfDoVK9KdFotKyWI8FDACoiwWubTCZEIhHEYjHU19ejWCzi6NGjKsKwmxgnM60Mkqxk8hhFWlwS5GXmp8vlUlZepQ5XwFZPEIqu65iamsLAwICqMXrnzp0yC6+a
+99LjNySao43KhN5jPFzqWgqjROAfXfE3pctpGlaJ4BzAO4BCH2qNKDr+qKmaawE0QLgrjhs7tPPdpRAIIBf+7VfU8U+Ojs7kc1m8fHHH2NjYwMnTpzAxsYGBgc
HYTKZcO7cObS1tZU1lfF4PBgbG8PDhw9x7tw5jI6OYmhoCK2trSqCcefOHXzxi19Ui4nccroC3K2MfRiBLROWYdBkMqnixCyeQqCSu7HT6Swzc2UmI6/HlyeVgo
z7szcFj5cuDIFEl8ulmtzye7FYTN0Lv8/IgMPhULRmJi9JurdE3Pm/TH1PJpNwuVyIx+NYXFxEfX094vG4wkjkuFUSGY2hddDY2Ij5+fkyViiAMj+eIu9TsjPpY
hHfIX2bn1faYaXV0N3drcBq6TbQ/agEZO5X9gMsymN2UxLyPUllII/Z7z1X/W1N01wA/t8A/s+6ru8W26n05NtmiaZpv6Np2kNN0x5GIhFEo1E8fvwY77zzDn78
4x9jdXUVdXV1SCaTuHfvHsxmMy5evAhN0/Dw4UMUi0VcunQJmqbh3r17sNlsOHfuHFKpFO7cuYP29nb09fVhYWEBz549w4ULF1BXV6dM77W1Nbx8+RKxWEyF7zh
RZXozTXGZ2be2tqbAStaolHRpHkugENhKnDLyG2ScXyqEdDqtulHJPpVsFFtXV4eGhgb4/X4AW4tFFnshwcjlcqGhoQGhUAh+v19FFaanp1VzXKOFwHtxOp1oaW
nB0aNH1XMyMlMsFjEzM6OsqnPnzqlitbstADmBOXm9Xq+q/yg5B3Qn5OSXFGoSr8xms6pPwXdJEFkmWcnFQiU6OTmJly9fwmaz4cSJE2UsTCoFed/7iUDIcajWU
jCK8XrVXH+/EQ6jVKUYNE2zYFMp/IWu6/+fTz9e1jSt6dO/NwGgczkHoE0c3gpgwXhOXdf/VNf1i7quX2xoaFB18Y8fPw5d1/H48WOk02lcvXoVFosFz58/x8rK
Cq5fvw6n04mhoSHMz8/j6tWrsNvtePbsGdbW1lSz2nv37sFkMuHChQtIJBK4ffu2Kjn/13/91/izP/szfPDBB2UsQE4eRizkDs4dY3V1VRVm4XEsgEICD19cIpH
A4uKiWtScyPwuXxonnvSNueMRbWflpUAggLq6OgWQrq2tYWlpCSsrKyqSwTLz/OdyuWC325FMJjE9PY2RkREsLy+rIrdG5cQQ47Fjx3D58mVcuHABHR0dFbtosb
YBiVDNzc3VTKlt5rXFYkFDQ4OynOR98Z/8XZKoOGbS9TLyGvh+jfU5afHdvHkT2WwW3d3dCAaD6hxGpbAfbGC/x+xnMUtr0zhXjeer9pxS9lQM2uYZ/yOAQV3X/
734098A+M1Pf/5NAD8Sn39X0zSrpmldAHoA3N/rOn19ffB6vaitrcXly5dhsVgwNDSEiYkJXL9+HT6fT3Wyvnz5Murq6jAzM4Nnz57h0qVLCIVCmJiYwODgIC5d
ugS73a4qRdM9uHPnDu7cuaPyJ2TuAxWCDFFycsrCJdz5ASgGH5mGko9QKm2WZmNnagBKcRD5p38vw5gSc5CVnWSuRCqVwtraGlZXVxUQWSgU1LlramrUIs5kMoh
GoxgbG8P8/LxKj5b8CX7f7XYravnVq1fR29tbVuCG/TZZtMVsNivGIy2r7u7uXReCcbF/OscAAKFQqMz0533yOOPxfD8MXVosFvX8ZrNZYRBGdinHWCqH6elpvH
z5Eg6HAydPniyzSl4FJNwNaDQqDuN97SaVrC75t91+r0aqwRhuAPgNAM81TXv66Wf/VwB/DOCHmqZ9H8AMgO8AgK7rLzVN+yGAAWxGNH5vt4jEp8cgn8+jpaUFs
7OzmJ+fx40bN/Do0SMsLS0pJuTIyAjm5uZw584dhStMTEzg1q1bOH36NOLxOFZXV/HRRx+picLjuWDtdjuOHz8Oq9WK+fn5MkYgAXlT8DOyGGlFaNpmnUEy+CwW
C6LRKDKZjNrF5TMxSsFkI7fbjUwmg3g8XgZKUhkx3EmrQdM0RZpiUpZsLqNpWllkwWKxYG1tDcBWR2veD81imttMjXa5XGhsbEQoFFKhzUoiG5ik02l4vV6VsNP
a2opMJoP29nZFBDMSf/aaoKwnEYlElC9PN4/vhu9Fgmwy54Idw6gYZH1Ovksqfyog TdOU1cA+JD6fD+vr67ve707Ca+z1vDspgEqYgpyj/Gwnt2MnDGI/Uk1U4m
NUxg0A4Ks7HPNHAP6o2ptYWVnBX/zFX2BtbQ3r6+tqJ79y5QpevnyJhYUF/PznP8eFcxfgcrkwNDSEjz/+GB0dHWqnun37NjY2NuB2u9WOzUIjnCyNjY1466230
NfXB7PZjB/+8Id4+vTptvsxAlW5XK7MRWhqalJdgWZmZlTJOe7smUymLOQJbCkcKhEZkSBXAthK0pI7ujSXqRBkUVdaK5lMBktLS0gmkyrPQhZ3ZeiKx9bX16Op
qamslsNuYmwlR/9+enoaFy9eRCaTQWNjI4LBIBYXF/c9KWtqahAKhVRSGFB59zPulFSkBCEl4cnokvEzzhEZJZqamsLLly9x8uRJHDt2DPfv39833Zn3e1CAUlp
ROylVo1KoBDa+qhwK5mM6nVZl3bggPB4PHA4HvvCFL+Cjjz7CwsIC7t69C7vdrvgDLO7CFGGPx4ONjY2ycurcRYGtXfPjjz9Gf3+/iioYXwAXtMzaozDzcHR0dB
tTjguaSVcyVMn6BRJRr4S2S1CSi4Ol2STNmiFX0qBloVVN0xTfwOFwqF4ZXq8XPp8PTU1NqK+vV5mXu4n8Oy0f7s5cNMvLyyoCUiqV0NHRsW+mHYXdxKVClde S9
2VcPLTaGKXh+NAFpKVEAJWp6LwGqfl9fX3o7u7G2NgY1tbWdt3ZgVevlkShJSTPxX+cG0aFI5XjTu7KQeRQKAY+9Pr6OoLBIKxWKwYHB1XPgUgkopBw1gfkzuD1
erGxsaEq+/h8PsRiMVgsFgQCAWxsbCCTyahEn3g8jvr6ekxMTKjuwVLLU1Fwp5aNWIjET09Pl01cAnZ+vx+1tbVl3ZV5DEFOTdPKEqSM48DrsQQ9lYisFUnrgNw
GivSLeX0WyqXr4/F4ymL5O4m8N8krcDgcSCQSigdSU7PZ53NlZQUejwepVApdXV148OBBmUKtVjiOq6ur6niOAcUYWZALu1AolPXmoJvBcbXZbFhfX1fzx3hegr
Nnz57F8ePHVbGeSsphL99+vyKVn/Fc8t2+zmvuJIdCMVgsFqRSKZV+/Su/8ivo7OxUCVQ/+clP1K535MgROBwOxONxaJqGubk5NTljsRi8Xq8K4Z0/fx4TExOYn
5/H+Pg4vv71r6OzsxM+nw+RSAQ//vGPyywDiSmQ7CTZjVJzc7JSGfn9ftTU1CCVSqnmOABUoRYCYNKE5YIzliYjfZUMSTnxWedAmsZAuQllq8Lv96vkpWoJLpVM
YTlhCUDSCqM7MTMzgyNHjiCdTiMUCsHtdiMWi+3bFDeZNruUh8PhbaFKuTvSdZP3yjJ4Ho9HEZ74NwLEKysrKJU22wTwnHyf5KPQouzq6sLg4GBVVsOrLlBpGfG
dv07XYL9yKBSD1WpFR0cH1tbW8IUvfAHhcFgVXblw4QJqa2tx+/ZtvP3222pbtOxQAcVQ/+clP1K535MgROBwOxONxaJqGubk5NTljsRi8Xq8K4Z0/fx4TExOYn
cxMjKCdDoNv9+v0oTljkPLgICeDCkaTVuSnerq6lBbW1vGOQC2aM1yt6GpT7RcxtupkAgIyvqNmUxG5UDw3HLRSKvC7Xajvr4ejY2NZSnV+xGjuSp/J85AjKSmZ
rNr1+zsrAqX1tRstm2vNpVZWmqapsHv98NmsylimHHx0aIDtpikEkQsFApwuVyIRqOq3obZbMbq6iry+bxSChJ7oZRKJUxPT2NwcBBnzpzBsWPHcO/e3333Yp
O4kRTJQKT3JhKom0cA8KLFYjh0IxeL1eTE9Pw2Qy4enTp3jrrbfwwQcf4etf+hKcTidOnjwJi8WCd999V9Vk/MY3voGOjg7MzMwA2Jq8tbW1WF9fR19fH5LJJFZ
WVtDY2Kiae7IoC4ulAlC7OLEBuSPSFeAORTSb/jRLyctKTbKuojEsBmz1ypRWCLEJSU6ShVml5SDDdSzdxtRmujPVTJidvrMbu4/meCKRKAuzhsNhxONxBAIBZL
NZdHZ2YnR0tCyCsNs9SMuA1g6ZnMZ7MaLuQLnVwBoaZJ3S7ZJ1MnicMUOSx9++fRvHjh1DZ2en6mlSSSkcdHHKZ3oVJiXldSuJQ6EY4vE4LBYLEokEQqEQbt++j
ePHj+MHP/gBrl69igkAggFAohEuXLuGnP/0p0uk0/uqv/gperxfFYhHf+MY3MDw8rEwi8WC3t5euN1uPH36FJFIBMvLy/jmN7+pelwSrJPUV+48ABRRhmEvApIy
QYr1C6Q1wZ2cmZNkWsrzE2vgvTJ0CGwCsbJrttxFJChJ66CpqUmlNr/qBOWz7DVRWTmJ0Rc2nV1aWkIgEEAqlUJrayssFotStMYdcLdQpqZpaGhoUH0SJF9BjrU
MWcr/U6kUnE4nPB6PsuJ4rGwSTJEWBwlP4+PjGB4expkzZ9DX14e7d+9WTK7a75gbFWGlsGS116j22nsp50pyKBRDqVRCXV0dAODv//7v7vfv8Z3vfAcLCwtT
WVtDY2Kiae7IoC4ulAlC7OLEBuSPSFeAORTSb/jRLyctKTbKuojEsBmz1ypRWCLEJSU6ShVml5SDDdSzdxtRmujPVTJidvrMbu4/meCKRKAuzhsNhxONxBAIBZL
/1X+Py5cuqnuLJkycxPz+PfD6PSCSjY0N/Mmf/ImKMDDTDgA6OzvR0NCAyclJTE1NYWhoCDMzM7Db7RgZGVHdpWT2pKz1SByAZp9EiCVtV36fICGwVXjVyIgkr
iAzOaXZXGkRETuw2+2or69Hc3OzwjWqlUoTyagIqtm92J1K0zaTu5hUNjs7qzJe6+vrVdjSeG0jsFlJ2I6OPTzkrr7XM9HKY3aqLH8HoGwDkBEoOSb5fF5ZDe3t
7RgeHlb8kFfx/eUcMFovu7kJe1kreymJ/Volh0IxsMIwzdAjR46gvr4ef/Inf4Kvfe1ryGazeOONNrAYv6+/uRSCSwvr6
O2tpaRKNRrK+vl/EIjOAjsL0uABetND8lYUiGx4yWBgBVHo4TlMpCkpCMLgNNd5/Ph8bGRjQ0NKgqzPKY/cpBdhEKcQYAZU1b2GeU49nW1obFxcUyZbfTrljpGj
6fT52fzymflWMsz8fK3ysrK2hpaYHP5yvrswCgjAUpF4x0+wqFAmZmZjA6OopTp06ht7dXZV7K7x/UYtgJXKxmbCqNhVF2CvNWK4dCMWSzWXg8HlUZKBqNwuFwo
L+/H48fP8YXvvAFlRkZCoWgaRrS6TSGh4fxta99DcvLy5iamoLf70dDQwNKpRLu3r2Lup+forOzE2fPnkVvby7K7x/UYtgJXKxmbCqNhVF2CvNWK4dCMWSzWXg8HlUZKBqNwuFwo
Iw+6rquoBNN87XY7LBaLcnVoHaTTafT29qqmpHQbSFN2OBwIhUJobm6G1+stA0cp1U7MStGGancRjot0fxgOpF+uaRqYDBcKhZDNZtHW1oYHDx5sO1+1121oaFB
dwYy7qTwXd3y6iNzZg8GgsiAZCmZI01g0VrIi+UwkzlWyGuSYVjt+vF8jLlLpewfFC4wK/6D4xaFQDHa7Hb/4i7+I8fFxDA0NqV0xkUjg5cuXmJubw2/Rmg
/7Gb785S+rpKC3334bAHD//n1VtETTNIRCIfzSL/0S5ubmMDMzg7//+7/H+++/j6amH+++/j6amJhw9ehS1tbUIh8NlfRgo0pwnACldCFoJpAczdEjhd1nrkZWXZe1F2ZiVx
7Dvps1mU5gKSUj8jvy/WqmkEA4iRjouk7JYxIVm//z8PEKhEDKZDEKhUFk9R0q1k59duZj9yfuQIWN+zqgDw8sAkEwmVQVsY01/YyEX44YAbL5b8hpOnjyJ3t5e
3Lt3b9/8jEruTyV3YDf3odJ5dnqnrwPMPBSKwel0YmVlBXV1dfjVX/1VxONxvPPOOzh58iS8Xi9G2cxcu4O///u9x7do15V8vLy9jYGCgbLL4/X6VZRm
PxzEzM4ORkRFMT0/j/fffx5e//GXVqUqGqySRhzvITiYbi8UCW3UcGGqUxBlGFmSBE1KS2fSFNRJCoRCamprgdrt3JLTsJJVMdOmW7FeMVoJRnE4n1tbWYDabkU
6n4XQ6kclkMDMzg3PnzqnX0qFQCJOTk9vOXY1YLBb4/X4FHu52jmg0qmpgACiz4Nxut2pULPEdo0tBC09GLHK5HO7cuYOjR4+ira1NtR6ohtdQCSuq9LnRPdntv
FKMIfTXKYdCMaRSKdy8eRPf+ta30NraqqpAv/feezh//jwCgQAA4H/8j/8Bi8WChw8fKqVht9vR2dmpqKgdxAOfm5lTJsFOnTuH06dNIGkLkpeY
OSixCJqi0npgEpNMukomk2V+K90QgqSs13Ds2DEEg8Gqw4xG2cmaeBWlwP932s1ku3vJvlxcXEQ6nVaAZFdX1zbFsJ97CAaDiklaKSLBxUZuAgDl4hC/IfuTWBS
tPFmZi+6IUSGy5sTo6KgqN3///v0dowdG9qnxeYw/G4+vlifxKhhRNXIoFANbwTMP4erVq3A4HPjLv/xL3L59G42NjXjtI6CMuSFGUWJzmoVIPw73V8Jf99r0lKnIHKmOMUi8UQD
ofR3t6ucAbWxzwImu92u+F0OhGPx3ddCPIdEYshTsDuZJLQZmSjAtjmWlDBp1IpPHjwAD09PWhtbVW1IeW4EW9isRhJ7qp2Ae81Pp+1MpByKBRDsViE2+1WPjmw

WZ/h13/91/Hnf/7nAIDm5maYzWZ0dXXh6dOn+M53voORkRHcuHEDnZ2dOH36NHp6evBnf/ZneP78OQqFAi5evIi+vj64XC4FSs3Pz2NiYqKsoYrMtgO2aL4sE0+
aLnMriD8Q1IrFYqqugxTuQLQq/H4/WlpaEAgE9l2DzyhGhXDQLED5s9Ft2m3H0jRN4Qd0JxwOB3K5HObn59HZ2YlcLodAIACv14uVlZU9IxKV/m42mxEMBhXOID
ETyUeQ1ph0D2gZyNAlQ8SMIMmxk1YnsBXanJqawtTUFHp6etDb21uWecn+DSxIzHyM5eVlpFIpxeWQBXt47krvZK9ox+smR1WSQ6EYSqXN4iMsIvLs2TOsrKygt
rYWv/ALv4DZ2VlEo1FVIdrn8+FHP/oRvvvd7+LWrVt488034fF4cOrUKfzbf/tv8aMf/QgLCwv4wQ9+oLL9Lly4gFOnTqGlpUUtZO7kBP/4GX1Vk2krz587AF9E
oVBQk1XG2BkxoUXBqkYkIe33RVaaRJWwg4NaC68iBEapSF0uF4rFImZnZ8tctdbWVlU9uhrlYJRgMIj5+XkAUFmSvC5FXs+o4LLZrCKEMetSKgYJDFfy91lr8+7
duzhy5Aja2towNjamOmCFw2EsLi7CYrFgfX0dp0+fRiqVgtVqRUNDAyYmJpTSlFyKnZ6Z77eSsv+HUArAIVEMxWIRi4uLuHPnDkqlEt577z2Vwffmm2/i+vXrqh
xZPp9X3aSYLPXxxx/j8uXL8Pl86OzsxLe//W38+Mc/xsbGBorFzXbyf/M3f4O//uu/htlsRmtra1nSEnEB+SJISqJ5KanJNDElCUpy94vFIhoaGlTBj4NaB3KCv
KrLIM/5KgQdKbIKtkxtX1hYQDweh8/nQzabRXt7Oz755JOyxUuphgtgt9vhcrkQiUSgaeX9HHi8rPpkzK8guYk4ENmoslK3JK3RLZLYA+s1TE5O4ujRo+jp6cHw
8LBqmEypr6/H0tKS6qBuMplUERy73Y65ubkdiWx7jUU1rNTXJYdCMXCX9fl8CIVCKq2ZHadaW1tVhWjSZNva2jAyMoJ3330Xly5dwn/8j/8RPT09CAaD8Hg86O/
vx6NHj6Bpmmr0WiqVsLKygo2NDZRKW4U9jECWFIlSkxJNC0F2cKbbUFtbq0hVB1EIOymAV40uVDr/QUWGc+mK0aw3mUxIJpNYXV1V5KKmpiYVfq50rmquFwwGEY
vFtoVfpTKXIDHfFe8tm82q6A/T2angZUKb/CejFBJraGlpQTKZxOPHjzE4OKjS3wuFAiYnJ/Hs2TOYTCY0Nzfj4sWLqK+vBwB0dHQgHA5va8e301gYQdZ/KHwB2
EeV6M9SuCBPnDgBAKpD9Te/+U309vbi1KlTMJs3O+pYLBYsLy8rn83n8+Gdd95BNpvF2NgYisUiEomEciFYjIO7LxWBJM1wMlHkRGfzV+l2UCnQqmDyk/z/oIBi
JQXwuqILO2EJ+zmfPAfHE9iqhcD8iNnZWQBQBWO4OA4qfr+/rDaGEdSV9ySVNn8nmOzxeNS7oyVAfKgSZZrCv09MTGBqagp3797FgwcPEI1G1XfpKsTjceX6shd
KfX29IuDxnnYS44bA3w8yD/5RE5yAzTz/I0eOIJFI4Ld/+7fR3d0Nq9WKRCIBu92OmZkZNDQ0oLm5GUtLSzh+/DiOHTuGZDKpLIlf/uVfRjqdxrlz5+D1elEqlT
A/P48f/ehHiMfjADbRdIYRJSIvdyBODMlPkItCchbIUuTx8ufdRO7kr2MXr+ZaxgjEfo4Htk8yXd8sBEOEPpFIwOfzoVTa7FLFepfFYhHt7e1lBW72K6zQFYlEl
PnPd8KokvHc8p3K/hNMyeYuLMvf0XWQZrsEMlOpFN5//30MDQ0pS0LW3OD5JOM1n8+rdoL19fXbMoI/K3mVOXYoLAZg00rweDwqGkCXQdM0FU0gkaa1tRUdHR04
evQovvOd7+DixYuKSHPixAk8fPhQZWx2dXUpTAGASsYCyumpVAakMsvQFb/L/xmRYKUgmSHJf9WayMZy6bzGQcHESv/4N/l/tecz3pvx7wwxa5qmTGQCcgSTWST
W2Ol6v8Ky7kA5jmCsJE3hfdMdIN/C7XaX1bOQIKR0JTgH5BzJ5/MK67Lb7arupvwO/9XU1Kh7JtbBcfssRI6HtG75+37kUFgMJpMJR44cwdOnT5UpNjg4iPPnz8
NisWBubg6xWAxra2vweDyqSpPJtNnW/Wtf+xqATRfgo48+QmdnJ+7cuYOLFy/C5XJhfX0d4XAYPp8P0WhUZewZdwbZh4C7j5yIAJSFQHPUaCHImgo8vlJEwQgkv
QqL7bPcefaaxFSMnPSM7LCnRjAYRCaTQSAQgNvtrqryMie1rNKkaZpqL8CdWt6f0fIDtnZ6WgEs4sKybqR0M6TJHJdKxVt4bs4b9vk0mUxoaGjAwsJC2TV4X7W1
tWhvb1d5QLQa1tbWVIKYLAj0KlyUgx5fSQ6FYqipqVEdrdkH4eXLl3j8+DE6Ojrw6NEj1NTUqPBgqVTC8PAwQqGQ4gi0tLSo8m4//OEP8c1vfhN/+7d/i+bmZsz
MzKg2bLJAq8lkKvMr5YSTFGv+LkOSxp1e/ttpt94NTNzPCz2oS7CbyOtLM30vocnM2gyZTAZOpxO5XA5zc3M4ceKEWkyNjY2IRqPq2J3cCi5kuWB0fTM5ze12K7
wAKM9j2YkjICtBZzIZuFwuVcSFz84UfLqJVO5G/InXpMLJ5/NwOp2qqS7xjMuXL+P3fu/3YLPZEAqFyiJfdXV1eP/99wEA6+vryOfzqk/IjRs3FIM2nU6jVNrs5
m1MrzfOL6kED4ohSTkUiqGhoQFf//rX4XQ6sbGxAZ/PB7vdjv/23/4bfuVXfkV1lSK/3e/3o66uDo8ePUI6nYbH41FMx3A4jEAggB/84Aew2WyIRCIq3k76rtz9
ga0dis1RZa9J42DTNJOWg4xmyBDm69zJpTJ4HS9eirz/SgthL6HPzrR4Zq+yGzZL6re3t2NkZERdp9J9AJXBUYYkg8EgIpGIIqRVAliNSL48HynSLpdLVfmWkQe
6D5RK98l2ArQOHQ4H/H4/QqEQ2tra4PP58KUvfQnBYFBZJMReNjY2VDHj9vZ2BAIBTE9P49atW6oxUCQSUTyIuro61NfXq3qoEtSuFMH6/yuLwWQyKd+/pqYG2W
wWg4ODiMVicDgcWF1dLQOJWlpaFDU1FoshEolgdnYWv/zLv4w/+7M/g91ux5EjR/DJJ58owMjpdCpegiQlFYvFMrOQVOV4PI61tTVFvjIi4UargcIsydc5NsDBF
mw1YlyEB1E4VLxU3hyrtbU1RKNRNDQ0IJPJoLm5GVarVRHAGBUAtnb1vZ7R5/OpilE7hWErhflkbchcLqe4EbKzubHPJZUxlYs8j8lkUrjY1atXcfz4cfT396vN
zeFwqNKCyWQSmUwGLS0tSlm88847uH//Purq6rC0tIT19XXE43FMTEwod8tms6GjowMejwc2m03VGGG3rdfFR6kkh0IxZLNZ5HI51TH52bNn+PM//3OcPHkSGxs
biEQiSqPruo76+nq4XC5cvHhRgUqrq6sYHR3F+Pi4oqiePHkSQ0NDiEajyOVyZT6qzH0gcs5JVFtbi7q6OtTV1an7AqAyMmk1GCMVmrbJYzgof8GYp2D0nw96zk
q77+u0OCTOYDKZVDMaJq1RMbCprqQG79f8tVgs8Hq9qjrWTiLPK3/WdR3pdFpFJzY2NsqiGlQQLM0HbAHTEqzWNA1f/OIXcfnyZZRKJUSjUYyPj6Ourg7BYBCFQ
gH19fVIp9OYnZ1FNptFOp1Ge3s7zGYz2tvb8fTpU0XfN5vN8Hq9eOutt2AymfDzn/8cc3NzGBoawurqKlpaWtDb26vyfRKJhLJ+af2wv8rreLeHQjEkEgm8++67
inz005/+FBsbG7hy5Qru3LmjNCU1u8vlws9+9jP09vYiFAohEolgdHQUjx8/RrFYxPz8PAqFguKt19TUqLZwNpsNdru9DHHW9c3W7vQXga0d2mq1ora2Fj6fD/l
8XvWjpJ9rRHwPGgoEtqIkr2MXNx77upWBPBdLzkm3ge3rpqencebMGQCb2EFra6vKlgQqk8r2um4wGFSt6rmoeX5jPgU/B7ZcR9l/gnUleKzRnaBSkUrI7Xajs7
MTfr8f4XAYR48eRT6fx/z8PFZWVmC329Hc3Iza2lrV0yMcDqsCuq2trfin//Sf4t1338XMzAxcLhdqa2uRSCQwPT2NkydP4jvf+Q4eP36MFy9eIBwOY2FhAS9fv
kRbWxvefPNNnD17FpFIBEtLSwiFQkgkEspSeR2WxKFQDNxt3n//fSwtLSluu81mU0U4CW5ls1l8+OGHSKfTGBoagt/vx+DgIBYWFlBXV6d6AczMzCCVSsHn86Gr
qwvPnz8HsLnrs5uSyWRSBVNorbDZi2z9xslms9lUCTqWdU+n08hmsyqnQpqe+5HXDShKRfAqHIZqxeFwqNZyTBrSNA0LCwvIZrNlOMPjx4+3MRb3I263G1artaw
mBrA7O1D+jVYmwcx0Oq3eM0FIMjqN1p/dbkd3d7fqz7m2toauri5cuXIFo6Oj+PnPfw673Y54PA6z2YyGhgak02nU19djbGxMKQ4qiUKhgJWVFVitVlitVphMJj
x+/Bizs7O4ceMGPvnkE7hcLgDAl7/8ZRw7dgzvvvsuurq6FHHKYrHg1KlTmJubg91uV88nq1LtVw4Fj8Hn82F1dRUzMzPI5XKwWCzw+Xz4J//kn5S1jKdZ/+TJE
6TTaWxsbGB4eBgzMzNqMft8PkVHpv9XW1uLM2fOwG63IxgMAti+UzNfgwSaXC6H9fV1VWZeMiVNJpOaVCzMygIrxlCXUXbjFryORSsjIztd71Wl0nmYPi5xHACq
GzaVcF1d3YErWlM4P/icUhlUAn2NwDHvpVAoKBISz2W0GogrEPxsbW0FsJX4RzIXmx1ZrVasra1hYWFBFQeiK9XR0YGNjQ2MjY2pztxk5iaTSdV5LZfLYWJiArd
v34bValUh9idPniCXy6G5uRnvvvsu1tfXFYbGDGXOWwmKHwQIPxSkWWw2Y2Jioizk5/F4EA6HMTMzU7bQmNFmjBPLVvQ+nw8nTpzA6dOnYTabMTY2Bk3Tyur/yQ
klgcSlpSUMDw+rZBfuIPF4XLkQUkGQ8OR0OlFXV6eKysjSbVIqoeivKpVe/utyRaoVu92uwna0uog3yMxIi8WCUCi07/PL8aI7sdP4EQ+QUQ75M4WFWtxuN4Att
4YbA4FIHt/W1qaUv2RTrqys4NmzZwiHw7h06RJ6e3tVMtmzZ88wMjKi7retrQ26rmNxcVFZxrw3Rs3ICRkdHcXS0hKATWV47NgxDA0Nob+/Hz09Pcq1povLjmmL
i4t49uyZoqsfRA6FK6HruvIZKblcDv/pP/2nMkIMTT0qAGDzZbpcLnz729/GxMSESqsNBAKIRqN49uwZ5ufnkclkyjpDybAPrYF8Po9UKgWbzaZ6ZLKbkdfrVWY
niTEs4SatBP5MJJpFSmVZ+VcFFXkO4y5gPN/rwCaqFZbOZ/UmfpbNZjE9PY0LFy4A2FyMTFvmPe91D5VovU6nUzUfqqSAgXKehFTm5LKwVqXT6UQ0Gi3LkWGVJw
KSXq8Xzc3Nit1JjElSoWOxGNxuN3p6eqBpGgYHB2GxWBSPxuv1wuFwIJvN4vnz54jH44o7wbCm7EjG8QI2cbh79+7B7/cr14SWGN1uq9WK3t5e9TyxWEyxcP9RM
h9jsdi2dnEmk0k1NpVosCzESnG5XDh9+jTGx8fVZ6VSCTMzM8oVYS0HAo/GcA+RYUYo7Ha7Wsjr6+uYn5/HyZMnEYlEYl1cbHo86G6mpkZVSW9oaEAgEMD6+rjrW
8RlNWKPs9JJfRcm8DvzBZrOpwi2M7gCb5d7YiTqdTqOpqUlZFXvdl/xfSm1trVokMmoAlMf0jQxWKZLxyCpRdCslTVoyXTkfASgshUlYmqap++F3GHIny5FAOF0
JWimyUJAM4XIeAJvzkB2xHjx4gFKphM7OTnR1dcHn86GmpkZVSW9oaEAgEMD6+jrW19eVsq5WDoViYL9JyQtgKXBgyzS0WCz48pe/rDIoKYlEQmVYUqj1Q6EQfD
4fnjx5os5VKUTJlyuzL1nWPhQKqZ4UmUwGs7OzsNvt8Pv9cDgcKBaLCgij4jLWDAC2irskEgn1PZvNVhYWY2k0WiU+nw91dXVKGVYyiV9FXgf+wMktoz3A1i69s
bGB1dVVdHR0IJvNwu/3w+fzIRwOq+/xHnZK+qmkuAKBgCoAI+s8SkvDmDbP+yWHIpPJKLyINUBoJbDiNOcicz8YzuS8zOfzCmx0u90Ih8Po7u5WTFCz2YxUKgVN
0zAxMYFEIqHa6BHcJG4l+5tyLciNguH6hoYGRKNRlWHc3t6uOEBLS0v46KOPYDKZ0NHRAavViqampv290319+zMS+krSp6upqVGgC7A5cF6vF2+//fY2eujS0pK
qFE3h4rZYLPB4POjt7VVak4Mu0XqpJOQ/lnM/evQoLBYLAoEAPB6PSrhhKGljY0P5p0y7ZQiUrgqwNflZITocDqu+j/F4HHNzc1hdXUUsFsPq6iqGh4cxMDCgys
rxHK9DXhfYyWeiQuR5aZmRHq1pWz0oOFElMCixkkrcC6MQVzICyVLBSKUgr8H/mRlJDgDPAaDMashms5icnITJZNpWDk7TNhOk2Ni4VCphdXUV/f39KBQKyvJNJ
BKYmJjA5OQkIpGIytCV9yfJcUbgmPf85MkTTExMIBQK4erVqwiHw5idnS0rYdfe3o729nZVzGi/Je8PhcUgNTsX46lTp7C8vKyKqgBAS0sLPvnkk20FP7LZ7Db3
gmaqrLtIMxGAmqQkPBlNe7oFxspMpONyoAlmkmRF8o3T6VRhUACqZ0SlqEUul1M+K1HqeDyurJi1tTWsra3B6XTCbDajublCxTQOKvtVCkY2oRHL4BgzzMfFRLx
mZmZGjX02m0VLSwtevnx5oNAuxWw2q/LyfJ9cWNL95O/yfo2WgWyCC2xhB7KaNJUI/8YIDCWXy6kNolgs4ty5cwgGgxgeHobJZEI0GsXy6jJcLpcq7sL7lCQvzi
+jlcRrlUolhMNhfPzxx7DZbDh58iTa29tVVnJnZ6eyFIDNtTA8PLyvsd1TMWiaZgPwEQDrp9//f+m6/r9pmhYA8FcAOgFMAfhVXdcjnx7zhwC+D6AI4N/ouv6TP
a6hwiulUgknTpzAL/zCL+Cjjz6Cy+VSaO3q6iree+89tLe3q12Bi9Lr9apzAVAceP5OlpgRsZaUWQp/J7KeTCbhcDjublZcTQOKvtVCkY2oRHL4BgzzMfFRLx
FFRExWq1lk1gXhOA4uB7PB6k02msrKxgaWkJa2trarKYTCYEg0FcvnwZ3d3d+15YB1EKRn+9Ei5BDIVu1cbGhoqrLy0tiRF6Pw+12I5PJoKGhQYGVryKBQABLS0t
lnaXkMzL6xN/5HPKZWMiWDEKpUNg+kWAls0elVclzc87QVZybm8O1a9cwPDxcRj7i9eg+SMuVP3PuVnKhpAWaTCZx7949DA4O4sKFC2hsbFT5FsFgEF6vV1k7+5
FqLIYsgK/oup7QNM0C4GNN0/4OwC8BeF/X9T/WNO0PAPwBgN/XNO04gO8COAGgGcB7mqYd03W9MnSMrVwJ7prNzc0YGRlR/hkAVYdBFk2hZqb2lqYXm9VSI0tTS
lb3kRWBJLpNfw3Y7M/IUBDNNbvdrkguLFzLyANffl1dneqVOTc3p/AEhj+5kCwWS9nL5/04nU50dnaira1NKZ7l5WVEIhGsrKzggw8+QE1NDbq6uqup4ja8mUnnu
hkuwcItRkSQSCayurqpYu8fjUUVe90vAkcqUXABjjgOvKxebFFoNBBRJanI6ndt6j+bzeQUOEow0Yim0UNlIiJYiCwqR1MWxICuS/A9j8xsAZU2P5DMbFSCV8M2
bNxEIBNDY2Iimpib4fD4VJmV9k2plT8Wgb7412u6WT//pAL4N4Euffv5fAdwE8Puffv6Xuq5nAUxqmjYG4DKAO3tcRw3A2NiYojdz8b7xxhtYX1+Hw+Eoe8l8ec
bFReCIE1Sm6koAj7iA0Sfld9jrEoAyWeXuQ0mn06pzEWshTk1NoVgsIhAIwOFwqAWeSCRU67psNquQfNks1ngvXq8XXv1dSCQSWFlZwcrKCu7du6dy8l4zKR
cpBzHW6DPs5lgViadlks1mlZGdnZ9Hd3Q1g8721tLRgcXFxG+V4JzHeC3d9v9+vIgrGiJM00Y25E/L/TCajKkkz2gRAKQ1WYpL1IXlOWn90Q9xutwJdR0dH8cUv
fhHvvvsuBgYGFGsznU7D5XKpnqQET6ULJJ9Xrg+jAuTf6XYyGcts3mya1NTUpLCGaqUqjEHTNDOARwC6Afw/dV2/p2laSNf1xU9valHTtIZPv94C4K44fO7Tz4z
n/B0AvwNA7cbA5kLc2NjA2tqa2sFJT2ZoSQoTdow1FplBB2y1NZdmvfyf4KM00aRi4HeMf5Omnqz5yFL4MsYNAKurq/B4POjo6EAkEsHk5CS8Xq+aWKlUSjVIIR
5RaWKwnkBnZ6e6lslkKmuNt5/FLHf3ndJ6qxWLxaJ2YVqBTqcT2Wy2jKGaz+dVrxAAZdaaFCP4Vmn3l+Xl5Xve6Xnk/wQTWcyV1qCcI8QZqBhonkulw8VNejVbB
czNzaG5uRmrq6sYGRmB2+2G3+8vOxbYXu/DqCgrKQv5ufydli55JLqul22M1UhViuFTN+Cspmk+AP9fTdNO7vL1SrNp23ag6/qfAvhTALDZbDpfqFH76rpeRrM1
ctelZSDOjXw+D5/PB2CrkCfPwX9SMfBv0vzlTkKTU4I/6mG18joJnBR9fX1Ip9MIh8PKj2bdgtHRUQSDQfj9ftWYhQU7SBdmYg+tD6mgKLxWKpVCKpVSyUxut7t7t
MSewkOzEDXwUQNJlMqnAL6zOwO9Pq6iri8Tj8fj+y2SwCgYDy66VykmNbaTEbhc/MIjCV3An5vNJa4KImVkWlS4Cb36NVKfNA6GJwjlJ5kJNjt9sRi8Xw8OFD+P
1+xZIMh8OYnJyEw+GAxWJRaejG++az0PoyWrXGucB3x8855yORyL6xnH1FJXRdj2qadhPANwAsa5rW9Km10ARg5dOvzQFoE4e1AljY47xKs8ksSg4OMxtJMpFCE
1AKaaK0Lqj1eS0jYm3026gITCYTFhcXkUql0N7eXvaS5Hflc/AzLlqy0GZnZ5FKpVT/RLo3U1NTsNlsCAaDCqmemZlBXV0dPB4PNE1TDVnJezCGa3nvpNOy8CgB
NQJdlUTiNcYFVK0YJ7XD4UA0GlWWAxdgMpnE4uKiep8WiwX19fVKMXBiVxrb3US6E3yXu5XX42c8vwSx2efSarWWWZi0GmTpeR7H55MRGRb7SaVSmJqagt1uR1N
TE/L5vHpPsruWVFpGi4AWLe9bfi7vZSergtWg9iPVRCXqAeQ/VQp2AG8B+L8B+BsAvwngjz/9/0efHvI3AH6gadq/xyb42APg/m7XYLgQ2CrWKicK28ZLy4CDkc
1mVUKN9CvlOQkMyUkj6wnKpiM8NweWZbdYpYfnqSQ7sew4aTo7O1EqlVRRDobzMpmMyv70+/1IJBKYn5+Hw+FQZBaGJulLk3hTaQel0snlcqqyksPhgNvtVozOS

i7HQawE466u67pqtMKdme8zn89jdnYW/f396h6bm5vLGKsHtVT8fr9qWGw0m+W73ukZeJ+MQtD9kefI5XLIZrPbfH2gnDxFQJzfIZ+lsbFR3Ws6nUY0GsXGxobi
sFTCdKgQpBKTstNcND7bfqUai6EJwH/9FGcwAfihrus/1jTtDoAfapr2fQAzAL7z6Y2/1DTthwAGABQA/N5uEQlgqxwas91kohKRYtYSlDF0mm6SPQZsDSYjGMa
+kkYugdTIQLlWNrYvk2acfFlGUEyKVGZMIqqtrUUymVTViEjEMplM6O7uxurqKlZXVzE9PY18Po+GhgZEIhGlJIrFomLikWZtXFS811wuh0wmo0g1TqdTNeExls
bfSSr5tpWUiqZpKhxLVqGsAzk7O6siAJlMBo2NjQrY4/ESma9GNE1TCD+tDymymYwR4OPPVAykbrvdbsWhYdSAWASwRVeWc4JiLPpCS4P1MYmXsVhMPp/HyMjIN
pdCWgRA+cYj514l4FZaSZVwmb2kmqjEMwDnKny+BuCrOxzzRwD+qOqb+NTsZbYZzR4+mNVqxcbGBurq6so+ly6DfHCGKsmNMO4g0p814g7S1ZA+m5HxJl+WcdCl
IqBUqvhUW1uLlpYWtLW1IZFI4Pnz52pX7+3thdvtVi6U1WrF4uIi5ubm4Ha7FRee/jFrIRCTMC4OTpR8Po9oNKosCbfbreoJ7mSByON38/Xls9ISYh8PFsAJh8P
qXeZyOfh8Pvh8PkVtrnQt431UEnI7GOGRWICUSi6FJLExeYqAN985/0ZXEECZxUCgj0qOFijdYtLriSHRctM0TZW9W15eVhXM5eZkvH+jyyAtDTnPJHbGqtjVyq
FgPppMJjQ1NSnwiFpZanUyIuWLJtnEGKlgeImLQ5qEXMhSARDPIKIuGYUMV5LgRFBPKgmj1jZOxp3APKlASOQqFAqqIYnP51MLN51Oo6urC2tra1hfX1elyEmEI
iuyWCyqBrysPlUJB6HSi8ViSqmQ/cf6mEYFV+2uw4nP88qkoEwmg8XFRdTX1yvLIBQKVUX53uv6fr8fKysryo83sh2NYB0XjlxUspK01+tV2bp837KpLiNZFBk6
p6KgomF9EAkwc+Oiy0vyFzMjeaxx4zJabvKZZHYm+UHcWJibUo0cCsUAbNXyk4NpBFoqKYBKgCQ1t9wlOTmlWyD9RJbG0nVdVTnmuZjam81mVXs8l8uFlpYWtSM
A5VbBbq7FTvJLv/RL+OCDD5BKpTA3Nwer1Qqv14umpibVhau1tRXz8/MqdMZdnzs0wTEjWMYJQjfKSBGnQiFwabfb1Q5XyQLZS0jt5vPTzyc9+vTp0wA2lXtLSw
sGBwe3LTRgb2UgQTur1VpWSaqS1WF0/4wKQ9M0RZFmQyHp59MSkYQ3no/PRyuPC75UKimXQRLaCIizviQ3BkYwkskkEomEan1g3DCNG5K8T7kBnj9/Hl/+8pfxh
3/4h7u/NCGHRjEQUKM7wQVMf43dnqRIQFK+YHIYuCtSy0ucwWgxMCSVy+WUdUBwk1EB3hN3Vp6H9Gv+bhRjzBrAtu/ruo7p6WmVv6FpmxWrVldXkc1mUVdXh8nJ
SdhsNjidTgUoApvl6qhA2NaPDEkCgfl8XsXYOeGNviuFzD1mDNLn9ng8FbGMSkJTmbsllVE2m8XCwkJZRfBgMKgA5p3ANKmYJNBn/Lvf78fGxoZyJ+ScqaTcJEj
Kc8t0bO7itBokLV3W95DvlbgWFSIxFQCqMAuxHYmHkeTGnBMACofg2MiNii0SyX+R2ck8h9Vqxfr6unLDq5VDoxiAzUFl01HG/3VdRzQaVWwyaUUQKJKmLgfPyG
GgGGPZvC45AIzDS8ITyUsER1kohvdTia0oxRge5b1KxF7TNHzwwQcKjKOis1gsCAaDilPBJqm8R5fLBYvFglgshqWlJXg8HjQ3N8Nms8Hr9SrQkkqBpcAIDBIo3
GlBMiuQlGaaxLRSjACkfBc2m02h/JINuby8jB//+Mfo6upCV1cXGhoacO7cOczPz2N9fV2xSHcCIXezXjh/ZLjbaBFUehfyORhmpGJguT9gi0AlIzuMdtG15WYl
LVUA2xrHSHdGKhS6sm63W0V5ACg3h25NoVBQlkg8Hld8Fxku9/l8uHr1Ki5fvrzjmFWSQ6UY+MJsNhvq6uoQDofVxGRykvwuSTJS+IKocaWpD0AlrUhTWvpuzIK
U16FmppLgwMvvVHIhgHJFxO8x0aZQKODFixeoqalBXV2dcqG4iFh4ludg0xIqQCbjkOMAbBW9IUXaZrOhv79fhV1XVlbKiqkwls7nNlplUlh3IpVKqaKmjG6QKy
HHgsVs5K5Kc/zFixd49uyZqtPZ0dGBI0eO4OzZszCZTNjY2MDKygoikYgqNw9UXthSLBaLWix8xko+uRG1p/D5WdrNbDbD5XIpANvo59NqoOJgpTBGjrjwmQ7N6
xLPILZBRULQnN/h/NM0TVXHoiJiEh+xJpmQ5XA48I1vfAOnTp1Cd3f3ru+1khwaxSDNWqKodXV1irQyNzeHRCIBv9+v+OWV0q05aPSLGTIyUn7lguXkkRVzZG2I
SpRrTn4j00w+i9H8XVpaQiwWUzFru92urKJIJKKqQ3H3oOVE5Uffn+eTaLrD4VCEKt4ze4Bqmob6+no0NTWpkFtdXZ0Kd3Kc1tbWlHXErkdGnIcTm8VyEomEUkA
ej0cBtQyLcmy4E9J85sRmqbyFhQXcu3cPDocDTU1N6OnpQVdXF3p7e5HL5RAOh7G+vq6KnEisiPdHYY9ShkylFSM5DRKE5vkk5sIuZ5JVyU1CKgYuaL4Puq600A
CooiwMncuwO++HLgB/5j/iHtKNo0tDa0w2TQKAEydO4Jvf/GYZ1rMfOTSKwWjuceHwpRHNXl1dVaZ/sVjE8vKyMqk48ACUeUzNz2vInUIubGMISEYc+NIr8fkr0
Xj5Oav+sP4jO1vx/gAo35DPzN0b2Hz5Xq9XNcwBoLL7+LO0IOiP1tTUIJlMKsshk8lgamoKMzMzKomnsbERR48eRTKZxOrqKqLRaNmi50JgWfNKlGwK3ROmiRM0
lZWpCNRxZ5TgGL9DCyYej2NsbExZE0ePHsXx48dx6dIlVcBneXlZVbqiCc93xYxFab1Q5IKUz1Mp8pJMJlUxGM4vlqWTAJ90+6gMaM0Z3U++Y25CtDj4XglK0nq
VysuIqcjv0Oro6OhAa2urGiu6crtZWZXk0CgGKRxshlvoHxMRBrZSUhcWFrC4uKhAMiazJBIJuFwuRbXmbsEJQw3MSSsXuESTpTLZaXB5LF9yJBJBOBxWOxuJWW
Qj5nI5FRYEoMq4EQEnrwOAyijlwpfhJ7nTEOTirkMQq7m5WWExrAeRz+fx4MEDuN1uNDU1oaWlBZ2dnaq6EI81JgbRHDbWruA74zimUinVN4ELRtf1Mj4DrTqGF
Y3AMDeDpaUlLC8v4+7du3C5XGhtbcWxY8eUNVEqlVQ6+tramsqx8Xq9ygIygovGuWZUDly8JIY5nU54PB6sr69jaWlJLXaeT24aXLDSUuV3pTtlnOtG/ExaDow+
8ft0N4mLBQIBdHZ2orm5GUeOHFFVuEnPrmTx7iWHQjFUis/yZXJCAlsMPpkFJ8u00aw1mUx4+vSpOrcECOk68G/yHuQC5+8SGDKGiYyKgr+n02mFZHOCUQkxf4H
PxkxKgoEEm7761a+itrYWN2/eLLNC6FqZzWbV/JfjQ8uBVhPHrqGhAY2NjUgmk62qgKJmHz58/h9VqRTAYVAVWT548qcBGuhsAVNiMdGypnOSCkwuRytxkMqkeos
D2uolGNqocT76LjY0NvHz5Ei9fvlRl9rq7u9Hb24u+vj61iSwvL8NisWBgYADxeBzJZLJi+NiIPxh/pptKnz0cDiu8w4incPFJi5NuhASZjVEQPpuk78tzGdMDg
C2wvL+/H5cvX0ZDQ4MqBmusmk2ltd9w86FQDACUmckFaAzt0a1ghx2GwghucfGzHgBDTlyMABSjDcC2F8Of+TdJLNlpt5EKQk5qxqDJQqS2J1OzUCioSENLSwum
p6cVP58T8o033sDc3JzidXBnXV1dVT4lefv19fWIx+NKychJSMuKlaEcDgfi8bhyOaLRKFKplArxmc1mjI6OorW1FX19fdB1Xe2UPB9ZgLQkpLVmDB3LBWQ8Pha
LYX19HQ0NDdsyZKVIa4TjnsvllDVx584duFwuNDU1obe3F8eOHcM3v/lNvPXWW1hcXMTw8DAmJyexurqqFo6s8Wm0CM3mzZJxJpMJa2trAKAKwkh8g/cj54Xcme
kykdtgs9nUfOJ4yA2QFqrRIpOYCLDphvb09ODUqVOqlyXnK5mmHo+nrMr1fuVQKAY5wDIMKIWTm5wGqZEZM+d5MpmMQv2tVqviHMgXAJTXYZDAIWPgRuJSJZETi
ouAO3WxWFTms9vtxsmTJxU7j/0JyPoLhUJYWVlRtR4fP34Mp9Op0n/ZD5INT0g8opvCRSctKABKeVBIvGF1qGw2i2g0itXVVaTTaeTzeYyNjWFubg4ulwuhUAjN
zc04fvw4Xrx4gWg0WpbfwffGPAyClgwZGt+rdOE4YblIZD9Q4xzgjmkMQXL8yeAcHh5WWZvEJr7yla/AbrcjGo1iamoKw8PDmJiYUH0dpHVIjkcsFsPc3BxSqRQ
KhQI6Ojrg9XqRSCTKMA25wI3PS14MOQd8Dv4vFRGfRQKOXNScn3yv7H7G9SCTBLlhyL4Y6XR6x3D0TnIoFAMRYJrENCulqcZBNBYCOX36tCrssrS0pIAnl8u1bS
eXQB1QPrmkFqdwgUs02DhpOaGYgEOqby6XQ09PD9rb21UeflNTEywWC1ZXV8vwDnIDamtrVRRhYmJCLXwWEeFOy12L4COfVfr7vE/WX5Sgl/Tt7XY77HY7Ghoak
EgkVOFSAmHz8/OYnp5WCikQCOD06dPIZDJYWVnB6uoqksmk8qPZgYvAGPkfzD2QkSTey5EjR/DGG29gYmICz58/L6ugJEG3SovKCCjzfczPz2Nubg63bt1SZQF7
e3vR0ODs2fPQTd1rKysYGJiAqOjo5iZmUE6nVaNZRnGZS8MLm4+A8dIUqRppZrNZpUQJYu7SDdD4mi8b74z/p3WGOcKx5X5LlQYPp9PtT2QuBXvSdd1RbOvVg6
FYiiVNtuI02eWnxuBGroJpI62tLSgtbUVuVwON2/eVNmL+Xwe4XC4zEeWk0eel70Q+bkstcV+hFx0khdBv5e7OneFjo4OJBIJtLS0wOfzqW5aRiSZ9yArVXMRsZ
Oy3EFkspmR1SeLlfJ5NE1TTXfJBCUwaWzwQ3IZXTE+LwuYcvfJZrO4c+cOWlpa0NjYqKpITU9PY2FhAblcTi38fD6PSCSilF5NTY3CgWjhNTQ04Ctf+Qra29tx6
dIleDwe/M//+T/R1NSkeCxyEUklsRNHQW4IhUJBWRODg4OwWq2oq6vD0aNH0d/fj/Pnz+PNN99EMpnEzMwM7t27h7GRESwvLyMejysFJUuxySIuRheE40RMhe6E
JEMZQU7pmkgXl88prWFd36zvuLy8rNLAOzo6VOfuYrGoKmczSldTU6MqXFUrh0IxcGfjogSwbSClrypLoa2urqK+vl75U3a7Ha2trSrM9/HHH28DnowgVywWQzQ
aVW4Ki35sbGwobR8MBpWpbVQq1Nby5cqIhlGMjDkqBL/fj7q6OvVZNBpVbgiVCRmHdIFoPZBT73a7Vel63hfxA0nLZek5o+Jl1EMWz+WYc3LOzMxgenoaXq8XjY
2NaGlpUYS0I0eOqC7QwCbbj4VZaOUQAykUCmhvb0dzc7NyM06cOIG5uTlcvXoVDx8+xMjIiGoEw8iLzI+RC6hS1Eh+RoLWzMwMZmdncevWLRXp6Ovrw7Fjx/Cbv
/mbADazQEdGRvDy5UuMjo6q4q52ux2RSES9X0Z5OLcYKuZunk6nFVhoDJ8aLWKJCUkFQuUgvyObFi0tLakwKrEmujt0R/bq+mWUQ6EYSNChciCdWe4OxkXG9NaR
kRHo+hY7kX+jyUWpFKaSYA95ETJez5dm9IUJsvHl8x8/N4pxwspdmpZCsViE0+lEV1cXZmZmMDg4qFq1S2XG3YOTRC52Eo7IQWhtbVWdkUZHR+FOOtHR0aEWvgy
DUdj92djhm0JrgsqJACBDZwDQ19cHYDOHY2lpCTabTRV9Zb4EgTj67ETUGxsbcezYMaUkqbTfeOMNDA0NqWej4pKWl1E5VFIWnAcmk0klnUUiETx//hw2mw2hUA
g9PT3o6+vDxYsX8cUvflEltU1OTmJsbAyTk5OqTyXPyX8mk6msvkQmk4Hf71dzsxJuwvsxhn7lXOG5+d4zmYxyMUOhEGw2m3J/uH4ikYiKgBmrnO0lh0IxyDAMO
eoSMJRWA79PLVosFjE6OqpyKbjIge1ty/hSuIh5XQnUyH4PUpPzutKNoFB5SJdjt9oG0gTlvTB7c3x8XJnd8lqcKNw1jf0vablIHn06nYbNZsPo6CgcDoea3H6/
X4VIjVW32YdTUsWJb3Ace3p60NnZiVgshrW1tbKyYWNjYxgbG0NraytaW1tVN6ZwOKwsIbo2wKa1FolE4HQ68ejRI5w5c0ZZD2wEe+3aNdy4cQNOpxNTU1MYHBx
UrhFD2MSBpGKuZEFUijBxnNPpNKampjA9PY2bN2/C6/Wis7MT/f39OHr0KN566y289dZbiEQiWF9fx8bGhuoNWak2KN0E5jxIqRTNksdJ67PScwBb1cUItpNElc
vlcOTIEeRyOVXZfL9yKBQDADUBNU1TVXiMqbsStJEatVQqqd6SBCc1TVN02EqhJTngssMQtTh3f7k4KzEfge3driiVXog0CyWgyfLq4XBYmda8Ty4AANuqR/Nc3
JFopgNbEYm1tTWVTp3L5RCLxWCz2fDy5Uv4fD60traq8niyGQ6RcHbYIqXZ7XajsbERjY2N6nxkTzKkPDQ0hLGxMZX1yXsymUxlbQczmQxmZmbg9Xrx0Ucfwe12
IxAI4ObNm7h7966KLrC0e11dHcxmM958801Eo1HMzMwoDEdyVCQeUUnknKAYlQULtz569Ag2mw1NTU04duwY+vv70draqnpQxGIxBXbOz88rwBfYUtgS/+A8kJa
fDJnKOcvv8We+X2nZRqNR5PN52O125PN5TE9PI51OIxgMqmf9R0lwAqBMV9YQYDkzhr9oh1by22m+ySYz8pzGsBDFyEOQOw61vfTr+LtciASzpBshr2OMcsiQKZ
+jpqYGy8vLWFlZUSiy5N0DWxRqugEyrMt7IhIuy53ze+vr64oOncvllEURiUQoOzurgFxJZS4UCopIxPMAUCQfTdMU6FVfX4+FhQVlvRF4Yxckci8k4MZ7n56eV
ryEly9f4lvf+hYeP36MeDwOm82GhYUF5PN5Vczn6NGjOH/+PB4+fKiyTxlepc/PZKbdWH+cT8YolRRuBolEQllD7733HgKBAI4cOYL+/n4cOXIEJ06cwKlTp1Te
x9jYGAYHB5FMJsuiFvJdEgOQeAnfKbEGqUCAcsyN2AEtLFYW13UdAwMD6O/vV92oqCSqlUOhGOTL4e5NhmMqlVLKQZrTlXaDmpoaxGIxLC4uoqmpSdFjOQGpZSX
XXfp1RjDOaJXwe3LX5/koRhejkshrcGIsLi4qboAMRZKezM1DHgJ/J5jHseN1uXPL+yJIyRAiAUBg0x+NxWKK9iwBSGb38T0xKiKrT5tMm01xTCYTurq64HK5sL
q6irW1NbWDcuKTJ8Kw6fT0NEZHR1EsFjE1NQWXy4X6+nqsrq4in89jY2MD4XAYoVBIFZBJJBI4efIkksmkwjquXbum+nXI/BjJvpRKQs4juZPL36Xws2w2i8XFR
SwtLeHevXsqHNrX14e+vj50dnair68Pb7/9NpaXlzE/P4+ZmRksLCyoqIwUKnN5fRnJ4Lhz0zPiKPIzhkvZIJl1NV97J6p/COGuTFaapmloaGiA2WxGIpFAJpNR
oTRge4NV+TMADA8PK2aeNMkleANsL83FndoYI5efGU3UnRb/bn6dRJ2pBGT832QyKfPT7/croBCAIgdRIYTDYUVYIl5AP5PMT3IhSIABoAA/5lHIseRutBNgS8X
NmDmFbfvS6bRyTzo6OhCPx7G6uqryDHhdhmn5jhmKy2az6O3txcDAgMIPZmZm0NTUpNyjmZkZnDt3TimZtrY2nDt3ToUZnU4nVldXy9oLcMyICe30Hnfy6Y1C9z
cWi2FjYwMDAwOora1FfX09enp6cPz4cXR2duLSpUu4fPmyajo7NzeHmZkZrKyslFl5nFssykICk8zDoDKX74b8FoLG/O7q6io0TVNjvx85FIoBgNqFdH2T2cUiH
4wZk0Ysy7tJS4NCM2xkZERpYWn+G8EeKgdpnnHhGa0Jqc2lCc9rUKTZLc1B+TuvSZ+QLgStD/aa8Pv9WF5eVtgCz10oFMoKqJKfIBUhTffTp0/DbDbjwYMHZcQX
lurf2NhQvjCjM1arVZmmxl1K1zcTooxVgVhViiXyGE6zWq3w+Xwq25QEIN4nd8N8Po8jR47Abrfj5MmT+Lu/+ztkMhm43W5MT0/D7/fj5s2b8Hg8KBaLuHjxIo4
ePYqVlRU1V5qbm1FXV4f19XVEo1GsrKzg7bffxsszMDGKxmHJTpXtpVPa7uRY7fS6tidnZWczOzuLmzZvw+Xxoa2tDf38/jh07hldly+fBnxeBxLS0uYmZ
nB5OQkksmkYi3SUuT8lJEXXo8gMdeEDJ3zb8lkEoODg6rpc7VyKBSDrutqx3C5XKirq1MaVKLmsVgMXq9XDYTR/OPPNIOJzjNaIHc8YHNx2Gw2RUIiRiHNUKAcq
KQCqRQaq/RclX6XzE6mD/OcXCiNjY0oFotYXFwsKxNGpRCJRMpAKOIsjHJYLBb09vaqiEJnZyempqbwxhtvTgpqSmV0ykgGY+O0QMgNMWIjAFQylxFDcTqdCiuR
Ibqamhq4XC513+yCTYyG7tLVq1dRLBbR1dUFv9+PxcVFZDIZTExMYHV1FaVSCadPn8bKygqi0Sg8Hg/C4TC8Xi+mp6dx6MgXdx9epVtLe3w+VyqbDqF7/4RTx69AiDg4M
wmUyIRCJlVGhZMMUIVu81b3f7rFgsqqjFs2fPYLPZ0NDQgGPHjuHEiRNob29Hf38/+vv7VVo+Q6IsBstxlZgWx1OmCFBqa2uVtahpm01+WPJvP3JoFAMfsKmpCc
DmomXoTE7cfD4Pv99fVqsBqGwKypp89GmpLGQpt1AoBJ/Ph+Xl5bLMSmlJyPCdvE6lsNNOYowkEKGX4Ve+ZCYoscRdsVhULe+5Q8qSaZqmobOzEy6XC+FwGB6PR
00impkWiwWNjY04cuQIVlZWMDw8DADknaDCzeVyqnQ9q2FJbEPXN+nExWIRjY2N8Pv9KgnK5/OpHAM5GTVNU3+jQjDG5ru7u9HR0YF8Po9AIID29nbNMz8+rpiy0
YMiuXFhYUFiU0+nE0tISSqXNDtisMMXeps3NzRgYGFDKcHV1FbW1tYq4ViqVVCk2PqcRf9jpfe72HWlRsivV9PQ03n//ffh8PgVcdnd3q4K/V69eVXU7JycnMTU
1hY2NDWVV8n3q+lZKOzcMTdMU45H9K1iSbz9yaBQDsJlQRBOWroTb7UapVFLoLl0LACpuy4Vc6UVW8iMlYAZsWQ6dnZ2KHQeU11mQ5+Ui5ncquROVlIV0L6TwOi

zsAWxq/sbGRpw9exaNjY34+OOPVZkz1sBkWS+Sktrb23HixAlcuHAB6XQa//v//r+rVGRN0xTYx/6MtCSCwSDGx8exvr6uFAjHh/6/rA9JJcBwHqMSbIajaZut3
knLpjDfQrp4Esw9e/ZsGbZx/PhxPHjwQNG1iUeEw2E0NTVheHgY09PT6O7uhtfrRSaTwfr6OoLBoCJdaZqmmIFNTU2qA7ndbkdHRwdu3LiB999/H9lsFplMBvF4
vAx4paVktEqN73on2Sk8WSwWEQ6HEQ6H8fDhQzgcDjQ3N6Ovrw/9/f1obm5Gd3c3jh07pnqbzs3NKeo5NwvOH1oVMtmKyo41S/Yjh0IxAFAl22TTGcbdCRpxx89
kMqp3AokuxsVmDAFJXIBWAAeQ5CSG8dj2nouC55EiJ4fRapH/V4pyGO+Dvj5ZfcViEc3Nzbhy5YoqcXf+/Hm88847uHPnjjLDA4EArly5gmfPngHYXEjPnj3DkS
NHsLa2hrW1NbS3t6udhqXkACjOBy2R7u5urK2tYXBwUCWjMerAceFOxapGtOSSySTS6TQWFhYU92RjY2NbPJ4JW1TuMvRWLG71wwA2rZj+/n7YbDb1fSrocDiMz
s5OhMNhLC4uKgzD5/NhZmYGJ06cgMlkUiG6iYkJHDlyBL29vZifn1c9Ki9fvozOzk40NDQgFovB5/OptHSJIVFJSCvCON+qsSooRgxD13XE43EMDw9jZGQEP/nJ
TxAMBpU10dXVhbq6OoRCIZw7d06lAszMzGBubk7lTWQyGdWWcH19XUWaiKvsRw6FYtA0DaFQSCkAmpqstc+dkozIdDqtBoILC9hSAvyZplWl6/E7wJbfRnOa+RH
Hjx/HysqKQtHlsUC5tSDPtxfeIENmNFuLxaJaiCaTCRMTE1heXkYoFMKRI0fQ3d2tTN/vfe97+Pjjj1VPzaNHjypfPBAI4PHjxwC2yE4cV3ahpo9KFJs7KLM/c7
kcPB6PytVgVIMKgkg//VhjAdVSqYTFxUWYTCY0NjaqGp2susy8AwqVx8zMjNr9WJeyrq5OmdE8RygUUjktxAxoVczOzgLYVAZNTU3Kfclms2hubkYwGFS5F4lEA
g6HA4FAAEtLS7Db7aqAbTgcRl1dnXpO1tKgGOtH7Bbm3EmMADaPz2QymJ+fx8LCAm7fvg232422tjYcP34cx44dU8lrXV1dakOZnp7Gz372M9y6dUsBmcb5uR85
FIqBcXLSodkXAtjctZmI4vP5lPaWYTMJHPFvBLN2CknuRJiioqFWb2lpUUqmEjovZa+XIIFLXouVd6Spx8UViUSUFRWLxdQ4nT59Gj09PfjpT3+KDz/8EF//+tc
V+0/TNMVspA8KbIYn2d6d48VwYT6fVzs9W9U5nU5FKqJZDkCF0hj9kVWRZUWmfD6Pubk5rKyswOVyoaGhAQ0NDYrqDmy1EuQ7W1paQiKRgNvtRjabxfr6urIImV
/h8/lw7do1VTmcO3wikYDH40EymcSHH36oMBeef2lpSeUUUFmOjIzg0qVL6OrqwoMHDxCPx8uqUl28eBEulwsvX75UYVRmNMq5JMlme71/OU+M88UYdqc7EIlEE
I1G8eLFC5UiTwZmW1ubyis5d+4cfvu3fxsTExN4+PChyhRdX19XFl+1cigUg6ZpZQ1Q6admMhmFLdAsJNjEsumMz7MikYw4SAozB1uGHWWOu9GHlIollUrB5/Oh
trYWa2trCtDaDXSshCfQv5QYR01NDc6ePausIhllAIDZ2Vmsra3h6dOn6lp+vx89PT1oa2vDf/kv/0W5F4lEQo2BJL5wYTmdTqyvr6vPGNqSRCiGyehmsPsVQ28
yiYvKR+IytbW1CtSl0mFX5+np6W0dwmQuQTKZRDgcVspjcnJSgdLcEEKhEEKhEMxms0rVj8fjiEQi8Pv98Hg8GBwchK7rqsYHMZRQKITJyUnFCWGtSGaHLi4uqu
cgvmMymTA5OamK6q6vr28rE0jLlHPGiEHIOcE5UC1gzevwmGQyiampKUxNTeHDDz9U+Rx9fX1oampSWMUv//Iv41d+5VcQiUQwNDSEBw8e4D//5/9c1fWAQ6IY+
OCsmEzwhyExTshkMqmAQhKiWHjUbDaX1XIwam/jwpesP2lyVcIq2FeSZjXLvxvFyF0wYgwUaXnQ96cbQ5YgQTrWJAgGg+js7FQv+tSpU/D5fPj+97+Pn/70p3j6
9CkWFxfh9XrVwpThwnw+D7fbXdbgl+Mlk6CI2vPestks/H4/XC6Xqqs4Pz+PpaUl5f4Q5JI1ITwezzayFC0MGTUieY1WxuzsLLq6uqDrm1mCjM3T6kgkEqp0GSs
1LS8vo62tTVlgjMyMj4+jvr4etbW1mJ6eRmNjI9bX19Ucy2azGB4eRktLC7q7u7G4uKisNVoqdXV1sNvtCmQNBoOIRCKqVoN0BfmP770SFVtaAzspEM5J4+9GcJ
2dylZXV/Hw4UPlHrKMHzkkDJPuRw6FYpB8AU5qhiZdLpcCzbLZrHr4RCKhOio5nU7EYjFlOkvfTYJfvJa0GLhrGWPyUjRNU2g8FxjDZpIzYXwmo7Kp9DuPs1qtO
HnyJBYWFpRbwIlVW1urdgqbzYa/+7u/w+LiIi5evIj6+np85zvfwcrKCjY2NpBKpVRYk+EqKl3yQxiSo2XGDDwqLPaD0LTNQi91dXVwuVxIpVIIBoPo7e1FTU0N
RkdHVRiTSoSWBgCVFsxohgTvON68HwLEs7OzCln3+XyqNN/Zs2cRCASwvr6O5eVldHd3w2azIRAIoK2tDSdOnMDQ0JBijQKbOAMZfxaLBe+++y5SqZSaYyaTCeP
j47hx4wb6+vpw9+5ddV/pdBrDw8NoampCd3c3IpGIsowYOVteXkZrayuOHj2KmZkZNQ9oRXC+GlmWRiyMIsemkuzFraAFbZSd5vVusv8jPgPhBGH1IC56NjFhKI
l1G4i+ZjIZRcNlQVN+V4ok20iRDLi9YtYUamTmMbBKk+Q6VBJJa5UWhYxOWCwWnD59WmVXslIVd1vu7BsbG7h79y7++3//7/jggw8UyBeLxVSuhaZpqmAHozsyO
YoLiItACsFGKmBN05T/zvtmqbLGxkacP38ejY2NKjOS40H+A+tKJhIJ5fpRiFVw/FdWVlShE1YCJwFtbW0NwWAQi4uLzeMTDAbhdDpRKpXw9OlTJJNJ9Y64APP5
vOJe8D3r+majn4WFBQQCAcWo5L/h4WGk02n09PQgn89jdHQU09PTWFxcVBbNuXPn8LWvfQ1Hjx5FY2OjqgsiOSqcqwQx9+K+GJmYBxFuOgRNZeGdauRQKAYy1Ng
5iBTdQCCgzFMAqlVYJpNRmttms6mJIGPkVB48v5EOzTgwrQopeykHk8mkekaazWYEg0G0t7erAhnyPFIJAOUhTOlSSNITqc00g40vt1gsqth0KpXCj3/8Y8zNza
mEo1gspgq/MPxLXIRRBxJhuHBlyJUt3rgz6rquFAO/w8Q2FiI5deoULl26hNbWVsWZoHtns9nKCrPQjwegrs+xYPs7Rjuo3EZHR7GysqKwhVwup+onELQMBoMq4
lFbW6uQfL4LUsQJIOr6JvFtcHAQ4XAYKysrSuH7/X5VPNbpdCpTnIS7XC4Hn8+Hvr4+1UuU1yQoSpKZxKsIYO62ich5dhChUqiWa1Hx2ge68msW7paMwQJQYCOr
9LIcNjEFThoCTFJTE7Q0XkPuzhsbGxgaGior0yWl0kAa6b/MT6Af7ff7t4WgaCLL2LWMTEiLxZjgc/lkSVy/fh09PT1lBV91XVeVjcbHx1VjFSqMyclJhMNhVR+
SkR4ASkkAUAQpqXSoGOgCMApBpUyzn/4r3QUqyyNHjsBsNqO+vl5ZJcFgUBUslV22ASjAmZLL5VTI0WQyKcvEZDJhbm4Ojx49UjUYZERifn4ejY2NKrpisVhw4c
IFHD9+vAyvYihUluWfnJzE/fv3kUgkVN0J1rB4+fIlAODMmTNl4DYp1bFYDDU1NWhvb0c0GlW5IB6PZ1t+gpwvvHYlN9Q45/ajIKR7+ipS9RU1TTNrmvZE07Qff
/p7QNO0n2qaNvrp/37x3T/UNG1M07RhTdO+XsW5USwWVcEJ9lxgn0IuClbxNZk2Ofl MU+YElyXLbDZbGS+AWINMkc7n86r+nwTlKLuZexL5J9DDc5KLz3MA5a6E
PL8MUfFnIv+apqG1tRVXr15FT08PWlpaFBeA+MHy8rKii/N+SbslaYt+P0E12Q+CZe5pRdCSIF4jadH0nXmP7LMgx66mpgZer1eFPQOBABobG+FyuRAIBNDQ0KB
KovE8sp9joVBQOAOtMWI8/7/23i22setME/0WSd1FUSKpu0Tdr6UqS65yXW13XKl2fBw7mdjohpGejh+m0QgwD3NwHgZpDHCAeRhgZh4O5mmA05hz0GnMOd0Y9B
xj4nR33Gmn086k7I5TqYtK9xspkaIoiiJFSqIokdzngfr+WnuLUqkcJ5YB/YBAire99t5r/eu/fP/37+7uSh13IBCQOppsNovFxUXpe8nNxO12o6WlRSwwWqYMK
BMWn0ql8OmnnyKbzWJ1dRWhUEgUyfLyMhKJBNrb29HQ0GC6Z/v7+5iensb+/j46OzuFdn5paQlra2tyLdPpNEKhkNSg0HIjnPlpSuK0C13fZJ6WOn2aPIvF8K8A
TGn/fw/Ah4Zh9AH48PB/KKWGAbwD4AKA1wD8Z6XUU+ljUqmUVNKR/4/9/0iwmUwmkcvlBOSkR2F1E5GuAydDMRIVHURFpcPSZ6ucxuTjLlpVVSULJRQKYWlpyZT
31rEMuuLR4awcLy0ITjAdgOX1euF2u3Hx4kW5dgDEj2cTVdaF0B0htyaPScyGvmvzetIK0RWwXhVZXV0tFXwUpQo1EaRvy+fzGBwcRFdXl3RyouLQv6MXuZGSXi
kFj8cjixh4QsPn9/sBQAhn/H6/MCbrn6mqqhJzn5Bt7vBEHJIxTM+W8NxTqRQWFhZQXl4usR9apgcHBwiHw1hdXYXT6URvby8ymQzW1tYwPT2N+/fvSzbDZrPh8
uXLeP3119He3i4KgnPQbi+weDHIbk21n8Zq0GMXp8FVnCSnUgxKqTYAXwfwX7SXvwng+kfPvw/gn2mv/6VhGBnDMJYAzAO4etLv8wZUVFRIv0nGEEpLS6VclxkB
+qRMy9DE0wlLrDEFHVTE/9lmjX7r7OwsZmdnhVRTl5NMNP11ms8OhwPpdBqBQAChUEjy/fyM9abpTL46CQuFCDw9jjI8PGwKlgGFTs9vvPEGLl26IjqBFsjBwQG
qqqpMKE6mG63cFcxYAE96a+qEvXQ5GDegBWKz2VBXV4f9/X1pmJPL5aTQinRsepxB5xFgloSdr+rr69Hd3S0uViaTQTKZxMrKiqSrSei6vr6Onp4eeDwelJSUYH
31rEMuuLR4awcLy0ITjAdgOX1euF2u3Hx4kW5dgDEj2cTVdaF0B0htyaPScyGvmvzetIK0RWwXhVZXV0tFXwUpQo1EaRvy+fzGBwcRFdXl3RyouLQv6MXuZGSXi
kFj8cjixh4QsPn9/sBQAhn/H6/MCbrn6mqqhJzn5Bt7vBEHJIxTM+W8NxTqRQWFhZQXl4usR9apgcHBwiHw1hdXYXT6URvby8ymQzW1tYwPT2N+/fvSzbDZrPh8
uXLeP3119He3i4KgnPQbi+weDHIbk21n8Zq0GMXp8FVnCSnUgxKqTYAXwfwX7SXvwng+kfPvw/gn2mv/6VhGBnDMJYAzAO4etLv8wZUVFRIv0nGEEpLS6VclxkB
+qRMy9DE0wlLrDEFHVTE/9lmjX7r7OwsZmdnhVRTl5NMNP11ms8OhwPpdBqBQACiUEjy/fyM9abpTL46CQuFUFdXdyS+FY/HBaZtt9tx69YtuSeJRAJzc3O4d+8egsG
g1I/s7u6ir68Pt2/flmI7Bip1i3lvb0+UhF7781ndYODXwzH8ewC/q5SaA/C7h//DMIwJAP8NwCSAHwH4l4ZhnGjbMGJus9mkfpyTUi+s0uG3zK9zp+MOycWiKw
Z9AtLv4yLgjde/b9XONIsJHtJxCZRiN8EaGeZzmo5EKYbDYcRiMTkvfk83rzlOugacFGVlZfj6178ubsLi4iLu378vOwexDJyE/C29/Lq0tFQsJApjAbRUWOTGe
AB3J1KoWUupXS4X0uk0nE4nksmkZETofpSXl4slyN2aRK+M+H/wwQf48Y9/LCa8jpDc3d1FXV2dZLAymQw8Hg8WFxcBQCyD2tpa+P1+IZoBgIaGBumzeenSJVMW
q6amRioXGRjUlQZjIBwnj59IJDAxMSH4B849PhJv8ejRIxwcHKC/vx89PT2mzWN/f18qUqnA+vv7hXm6paVFeqlyc+CaoHKmEtctic8iz6QYDMP4qWEYbxw+jxm
G8VXDMPoOHze1z/07wzB6DMMYMAzjb0/xu6IUSIjJyaPTjll3Uubla2pqhFiEfQ6sv03RFyonGicFX6MPTtfl4sWLuHz5MsbGxtDc3Cw+cTFcOo/5tHgEd3MG8L
LZAtvwp59+ilAoZMqycBKWlJSgs7MTDocDV65cQW1tLbq6uvDNb34TPT09wngVCAREWdL8J3sTzVXWR/A601zW3QGdNp5Vrsw0UIjuIzCNwpgQm6Ds7OyIQqTJv
7m5KYpbb+umH5NBZVpz3KVpBTBNvL29Lf0zt7e35b26ujoJ+NKC4PyIRqPw+XwCxtKzDU1NTSay23w+L8rSClgjXHtubg7j4+PIZDKoqamB2+0WK2N/fx+xWEwW
fllZGV566SUT+TDnzdbWFrLZrJCzVFRUoKmpSbJKbrcbdXV14kZx7LSogIJVR/6MzwJ4OhPIR6WUCUfAWAEntI5DoMl5F8ymZSO06y8M4wnrDtUDAT4UKxpSz6
3jotNWYnyY9BvYmICU1NT0tKex9IXv55XLpb+1I+vU6L5/X65sZwwnAC0GDo6OoRcNRKJoKGhQaC4r7zyCtxutywaoh+p8HQmJ6WUMELpeASbzSadrh0Oh1gEzE
xQ6OrpQWPGNnh8AIIIZJyBx7BecyoKxkn0NLGen6eVwM7ga2trEoQMh8MCsSfIiz0zGLgrLy+H3+9HZWUluru7TY1bFhYWUFZWJm4Gj8uYjH7/9NhVIpHAxx9/D
ABwu93o6OhAW1ubLFbG0R49eoR8Pi91MQBklycuZGNjA0ChNJz3e2VlBaurq3LeLpcL9fX1w1ldDrFkqDLwcxJMQDfSXImFINuBXAHo5lMxQA8CSJyt9ODMlw4
ejQcKN6cxgpr5fcBMzcf6cYePHiAn/3sZ/joo49w//59hEIhWbhLS0tYWFgwIQ+LQaxPElotrCnQsyS/+tWvpFmINdrt8XhEWdH0PDg4QGNjo3Q/psXAVB/Lx/W
YADMTxxVTEUsCQJq9AE/Qj+wloQfmeGxeX3a/rqurg9PpxNDQEOrr6wVgZhjmqk6ep37vdCWZzWalu1ZFRQUSiQRyuRy8Xq/48XpDnEAgINkNh8OBpqYmwTl0d3
dLHAQA5ubmcHBwgL6+PrGaqPxpxo+NjYm11NbWhvr6etl8mAHKZrNwOp3SiOfg4ABbW1uYm5uThrM3btwQ5cNeKOxmtb+/jwcPHiCTyYh1+Omnn+KTTz7BwsKCb
IJVVVXwer0ydyh0q63Vnaeak8/06d+Q2GyFEtuamhrBJRDRqCsF0rzpaUW9wIjmv7WS0gpuoinI79FXKxYT2Nrawurqqk BkuZvpqautrS3Mzs4iGAyaukF9FuGE
ZqVfNBrFvXv3MD4+bsI15PN5tLS0mOr/m5ubkU0kkUgkhOyV8QPm6xnEZTaHAVEqXCpXug2M9RCLQUuOx6Xvzsg7ryH99XQ6LWXxuVxOmg+3t7dLuTPvDS0Eng+
VABWHfn9zuQKZKuMUDNY1NDRIVy+S687MzGBubg6GYYjbwOu7sbGBrq4utLe3y7FYUFVfXy99Nzkeh6NAg3/lyhV0dXWZ5g4zajo4So/DMM28tbWFqakCiPjkLS
uw2WzCm8k5tbu7i42NDaytrcHv98Nms+H27duoqanB5uYmHj9+jMnJSakpIk8Jn9Ol4j3+UioG+rR6zQPz3QzQARDEHi8+H/ldKhNGpa2pG+uOC0DMN91i0D+jg
5BoDdD/ZzdhclBGIhEBu/w6gR/AHKDMZrMIh8MoKSmRrtH7+/vSU/KHP/whvv/97ws6lCxTTHXpJjtL1Zl21IFKXPycSKSQJ+KRbgivGxcuS56tmYm6ujrs7u7K
oqVryKrNsrIytLe3m6wG3SqwWntU5nwtHo/LxjEwMICtrS0p09eLyEKhEBYXF4Xjkde3rq5OMCBf/epXZRyZTEa4JgYGBmTOUWk1NzejoaEBw8PDpkA37zkXKF1

jxr1sNpvQA0xMTMg11bET+iJeW1tDJpPBw4cPhWbv5s2b4v49//zzePPNN/HWW2/hueeeg81mEyvbZrMhFArJOJ+VPv5MKAZ9wdHnZrCRPiFTmVVVVYIi0y8C26
Yztz0yMiI32po311ObVAx6ykofj3WBUymQQ49l4OSm3Nvbw/T0NObm5sTU429a4w9PE95oTioWmuVyOWmQs7+/j48++gh/9md/hvfffx+ZTAbz8/OIRCLw+/2mi
QtAshcAZFLSvGawiqK7dEwLUwFTCSilBMXIACQVEVOZrNZkANLlcmFrawtAIS3K2ACvL39XzxbwT4cw7+zsiIIh7qCkpAQulwuLi4umAHYoFEIoFJJU8f7+PgKB
AGZnZ3FwcCD09zz2/Pw89vb20NXVZarr0DMNbW1tcLvdcs50BwjGYtygrKzM5DaRdWlxcRHBYFBg+VYhZV0gEEAwGIRSCnfu3EFNTY0o3VgsBpfLJV25qASIohw
YGMBXvvIVscxOK2dCMVjNd/r8NB3JTMSFxz8uUH0h22yFBjJDQ0Mmi8GatqQQFEQzUX9dd1WoBLhT6mkmPSrMHS8ej2Nubg6xWMwUPCsmJykJKraysjKZoHt7e4
LM1K0KmvjLy8u4e/euoCFpdRHIxAAmsyqElpMrgEIAGIOzdDWqqqokS0GznIFT/T4yAMnrGo/HARTiDOSe5ELWFaiuxK3uBK8x6ya4MFKpFOrq6pDJZNDY2Ch4A
AZHE4kE5ufnZX4Fg0H88pe/xPLyMqLRKOrr69Hb2ysLNB6PIxwOSxdw/R6x3qO8vBz9/f3yOjcgnrtenEaYPoFt29vbePDgAebn503Vufr1AwpArEwmgwcPHiCf
z0t7u42NDaRSKdy/f1/myKVLl2Cz2dDW1iaM4m63G9XV1Whqajp2jhWTM6EYAEg0m64BJ0EqlZJqMy5STmDi8MmUwyh0U1OTpMl0U1RH3ekTjVgIK7KOyoFKhzf
d6r7QBbLZCnDdoaEhXLlyBVeuXEFTU5Ps9roC4/lYrRL9ub47AZDdnTs0ae0GBgZkseVyOYyPj+Pu3btYXFyUdC+rLIkQZcAQeILM1N0B4jpoXdhsNimW0ingDc
MQKC+RnPr1Zh0DOQ4MwxCMA+M79fX1JtdNLzYjmIhjAp4ElPP5PNbX16UL1erqqrA8JZNJbG5uStwqnU5jfn4eOzs7qKqqwr1797C1tYVoNIqFhQXZUFgYdnBwg
JmZGdhsNgwODoq5z/cmJydhGIbwYOrKjFkPBv8IrtLbK8bjcfj9fkxPTwOAuHP63AQgzFd+vx+RSAR2ux1f+9rXRNmRwMYwDGGQonumN4LWFdhp5EwoBmpxHU3G
tA0Xt75o9ZsEmNOCTOPogRw9xmC1BKgcuHvqVgO/oysCujj6WPTc/8WLFzEyMoK2tjahHFNKIZlMSlDMuiNaU3LFzk1XIFzINIsJ421oaEA+n5cOR0xBMjiok6L
oHaqYLtUzPjqAiUqFkXvGDHSfmqQuevk23Yx0Oo3q6mokk0nk83kBHxFkxVgJhQ1feL9opvN66NF/UqOTeCccDgtrVDAYRHV1NTweDw4ODqRXQ21trbQqYF/Mg4
MDwQZQ2OOzs7NTrCJuUmyS6/V60draaho/g5AOhwMdHR3CNs0iKpvNJtwjOnhKL3rTXSt2xX748CFyuRy6u7sxNjaGYDCIRCKBhw8fyvUeGhqSMQPAwsICDMMwY
XtOI2dCMdTW1uLOnTu4ceMGLl26hObmZjidTtTU1IjWsyoOXVnoAZuSkhKZhLxBXFjWm0chcoxmqy76wtddE+uxdYVFGnh21yKvYDQaFXYla6GLrgyOi29YXS5W
cBJEwwXEOgd2o6KloDMyWYFKpOO3ugOseC0vLxc+DJZuM0ZRWloqGQDdxVBKySKsqakRd5B9KxhnYHUhhcqF56O7anoqmdH8RCIBt9uNnZ0d6V9ZX1+PpaUl2Gw
2DAwMiMJcXFxEaWkpXnjhBSG5DYVCQlvf398vGYZ4PI5gMIiqqip0dHTI/AIKbtXCwgIcDgdGRkaOpFWBQvyks7MTw8PDJsZmgr8SiYRA0lnHoQcyOaeYiWOa0+
Fw4M0330R/f7/0IGU9Sn19PZRS8Pl8KCkpwczMjJALP4ucCZbo8vJyXL58GcCTHYHpnt3dXezs7GB7e1uam/KPpBY6jx4JZKPRqCgSwNwxWE/76W4DiVOt6U2rE
tK/a/3sxMQEXnrpJQwNDcl73d3d8Pv9ePjwIcLhsDA6swEKLZBiCLWnBSy549PK4k7Y2tqKdDqNiYkJtLW1SW8MBlsrKysFHwFAdjIrJV51dTVWVlakUSyvsR5o
Awr4hkgkgq2tLbS1tcnYyJ/h9XqFk9LlcqGurg6xWAwdHR1SOk33hPEDxkKs8SHGGAijXltbw9DQEMrKygS23tDQgHv37mF7exuXLl3Ce++9h52dHczOzuLll19
Gf38/7t69C5/PJ2Qs3JAYbM3lcpienkZvby8GBwcxPj4umwzfu3TpErq7u+F0OiWGwmtDxVBXV4fOzk5MTU2JAt3f30c8Hofb7RbkptPpFCtZ3yiy2ay4TOPj43
j55Zfh8/mk9NztduPBgwe4c+cOHA4HBgcHMT09jfb2dszPz+PBgwe4fft2saV3rJwJxQCYiVFptut4eu7GwBM/lPhwKo/x8XHs7OyYWIq403Dh6iapLvrCtO7M1
nSnNRahPzIOoKe3KioqMDQ0hJ6eHqyurmJqagpLS0tYWVlBTU0NPB6PZFeeVXgejNEwGq7XFjAASteDjW2Xl5eLphz5mlJKrA9yYaTTaUGCsr8DAFNmQgcpEYTG
hRyLxaR7EisKbbZCQ6HV1VVx29gGj/ed1acUXYmvr69jdHQUtbW1CIVCiEQi6OvrAwCEw2F0dnaip6cHs7OzCIVCWF9fh8/nw8svv4z9/X08evQIi4uLuHbtGtr
b21FfXy8MUSsrK9je3kZrayvcbjcikQiAgnKKRCJYX1+XBrSffvqpzAMqTfYgGRkZwdzcnMDRabHt7OzIa7Sk6HLpczUWi6GpqQlTU1PCP8kCt9XVVUxOTuLy5c
uoqalBY2Mjpqam0NLSgkAggJmZGVy8ePGZ5tWZcCUoVtMcOLpbc+KUlZWhqqoK9fX16OjowNDQENra2iSNqZvEFF35cBeyugr6gi82rmLxDn2cet2F9XdKS0vR0
dGBV199FW+//TZeeOEFKKWwvLyMWCxmKg8HjsYbrMLX9eMUS3GyRwebn7KpK3kslFKS3WBshr9J64BwYgYgWTXJz7FpDN0NPe5C5VJWVVYByJqaGhkLTWA92Kgz
OukBSIoepKSpzXTj4uIidnZ24PF4sLS0hPLycly4cAEAxJ2orKzEyMgIhoeHMTw8LDBkZnJ4XqlUSn6jp6fHdO339vYwOzsLpRQuXLggFg4lm81ienoaBwcHaGl
pkZQl3QcqBwaDAQi1oXUd7O/vY2NjA8lkEpOTkxLopeW3urqKBw8eyDUnroOW4717p6VTOZxHz/Tp37IUSy9a39cXJ8t8WfFmRXxxMumpRuviPk5JWF/nI3dpfk
4varEen4rD4XCgsbERv/M7v4Pf//3fR19fHxYXFzE1NWXq+Kwft5hYrR9dgTBASVOf9QIAsLq6Krsaoeh67l1Hb+oZF6CwCJVSEsfh5zihWfikX9va2lqxLhj74
eIg9oFdpwCIdcC4EAOsevzHMAyJIWUyGakXKSkpwebmppzr8vIy9vb20N/fL9iH2dlZ4c0sLy/H2NgYOjs7JWbQ2dkpwTrDMDA3N4d8Po/+/n4ZI+cSMx0tLS1C
AkNhwHNtbQ3l5eXiXlJp61ycvE8kqLWC+ICCUstkMnj8+LHU0zA2EwwG8ejRI2HTYjbM5/PB4XBI9uO0ciYUg3VHLrbwipnZ+sKjBifRBYtsaJIxNcbP6hYDx6D
HEPRjWC0Zq8VgHb+uHGiWW5UOz8vj8aC9vR2GUeBOnJmZwcrKimnXtspJWQxdeI4EMBGLPzMzg48//lhSvgBkJ2OcQleWFRUVEluglcDFzmOQIIdWhX5va2trsb
29jdraWqH2t9sLFOtk22LEXr/u1rSl9XroEPX19XUBvnGxuVwuAQH19fWht7dX+C82NjYEcm+329Ha2io1MMwqAYXFzeh/U1PTERKWzc1NBINBlJaWmkBEHNfe3
p5wQvb19Yllppf0s6Sd7uTo6KiJZl+3Gtje/uOPP5bqX6aKl5aWJA5it9sXNDSEdDqN7u7uI8Hup8mZUAzA0ei/dZEWUx765xnwIS6dfQMA80LSA3xWxaCbboC5
AtP6Hd1tsCoHa06b1on15vB3HQ4HGhoa0NnZiaGhITQ3NwvC8ri0rC7WoKU1HcpjVFdXi1nPnfpXv/oVQqGQLO5sNmvidaR1wMwEMR/kc7SStuTzBYo9/XqyZyb
fj8fjsNls8Hq9UlzlcDhMZc7cCfV7QnwLr52uOFhaTWbqubk5NDU1weVywe/3o7q6WgBAm5ubWFxclMI1u90uMZSNjQ1UVVWhu7tb7j8zECUlJRK7YAyJ7gIxDX
RFeO339/cxPz+PVCqFmpoa+V29TR6zMMy+3blzR9wWbi68rxsbG9jf3zfB7plSDgaD0rVbqQJ0O5vNwufzfTkh0acV6yLUhfwIZJnWEXzWhQqY+wdaLQG+bz2m1
XI4KfZAU1gpJX67zt/Az/E4V69exdjYGPr6+qRdvE6SchJ60uou8bGYi8GgLnfkaDSKn//85/j5z38uhVW6O6OUEmQh+1fqpi+h6jqYiakzXh9OeKIwY7EYbDab
pBiJVdEVA5UAg5MATK4Ez4/uxvb2ttC42Ww2pFIpieQHAgEYhoGOjg7pVrW4uCiFR/wtj8cDv98PpZ40s+Wx9IpLHaWYz+cF08BSa/3aUQkvLCxILILBdZ5XLpc
T2r3q6mq0t7fjq1/9qsmq4Fxhepa/AUCU0e7uLpaWlkRR2e0FyrvNzU10dXUdmTcnyZlVDCf51sU+S+AJ8+7W+nPeBC5Y68K3xgOsLoZVcViVhP49nUVKKYWlpS
XMzMxIcMpqInLBMLBaW1sLpRRCoRDm5+clmk7fHXiCdSgmepC1mDDYRQ6IdDqNYDAoEXTdRbDZbHJNWW3JeguWY/OcWDfAeg6Kw+GQ4iYGIImHACAZJAbnKGwky
/PVlaluXjM2Mj4+buKHCAQCKC0tFValnp4e+Hw+ZDIZLC8vIx6PC09FOByG1+sVajyPxyOLPJ/PIxKJIBaLSQMdXelub29jaWlJFr6+uTAWMTk5KSXxjY2N4rpR
dnd3YbfbZVO4fPmy9LHQ55ZhGEJQzOtns9kEORmNRvHgwQMpiGtubkYulzMFTk8jZ0YxHLfzHufPW19jPMHpdJpMXOCJdWA1sU9yJazjoBynRI6LQ4TDYWxsbGB
ubk4Kn1hVx+Owd8LIyAhGR0dx8eJFvPLKK3jllVfQ3d2NyspKxONxzM/PS3UlRYdrF3OXniYMduXzebFsWOpNXIFODEtXg64Dg120LJQqoDz1ACatA5rTfJ/AqM
3NTXE59DgDA8X6/dLrJuhu8ZzLysrQ1tYmZeTr6+ti0aysrMDlcqGnpwdOpxNra2sIBAImOr/a2lphWqqoqEBfX19RQNPg4KCMgfU6zD50dXWhrq5Ozh2ApBQjk
QjKysowPDws2SPOI51aj/1Tbt26ZbpXPCZJiZidA8xWA6HW3GgGBwel6/dp5cwohpPEqgSKvUbSFSvFOWB2G4rFGKw7uNWaAHDEWig2Bn6GABVO1sHBQQwNDUmP
Rdbp86+lpUXauDFaX1lZieHhYfze7/0e/uAP/gDXr1+XfgRLS0uyI+jjfRbRv6PUk05XAITR+O/+7u9w//59WXw0bRlDqK2tledKKUkVU/np16aurg7JZFK6VKV
SKdjtdlOcgWxMXCzEM+hK2Fotyh2ZAbi6ujphr0okElIbsbS0BLvdjp6eHgwNDcHr9WJ+fh7ZbFbMctbZ0OwnOxKPw2wGlbVe97K2toZoNCoEs7pw0U9OTsru7X
XMzMxIcMpqInLBMLBaW1sLpRRCoRDm5+clmk7fHXiCdSgmepC1mDDYRQ6IdDqNYDAoEXTdRbDZbHJNWW3JeguWY/OcWDfAeg6Kw+GQ4iYGIImHACAZJAbnKGwky
/PVlaluXjM2Mj4+buKHCAQCKC0tFValnp4e+Hw+ZDIZLC8vIx6PC09FOByG1+sVajyPxyOLPJ/PIxKJIBaLSQMdXelub29jaWlJFr6+uTAWMTk5KSXxjY2N4rpR
dnd3YbfbZVO4fPmy9LHQ55ZhGEJQzOtns9kEORmNRvHgwQMpiGtubkYulzMFTk8jZ0YxHLfzHufPW19jPMHpdJpMXOCJdWA1sU9yJazjoBynRI6LQ4TDYWxsbGB
ubk4Kn1hVx+Owd8LIyAhGR0dx8eJFvPLKK3jllVfQ3d2NyspKxONxzM/PS3UlRYdrF3OXniYMduXzebFsWOpNXIFODEtXg64Dg120LJQqoDz1ACatA5rTfJ/AqM
3NTXE59DgDA8X6/dLrJuhu8ZzLysrQ1tYmZeTr6+ti0aysrMDlcqGnpwdOpxNra2sIBAImOr/a2lphWqqoqEBfX19RQNPg4KCMgfU6zD50dXWhrq5Ozh2ApBQjk
QjKysowPDws2SPOI51aj/1Tbt26ZbpXPCZJiZidA8xWA6HW3GgGBwel6/dp5cwohpPEqgSKvUbSFSvFOWB2G4rFGKw7uNWaAHDEWig2Bn6GABVO1sHBQQwNDUmP
Rdbp86+lpUXauDFaX1lZieHhYfze7/0e/uAP/gDXr1+XfgRLS0uyI+jjfRbRv6PUk05XAITR+O/+7u9w//59WXw0bRlDqK2tledKKUkVU/np16aurg7JZFK6VKV
SKdjtdlOcgWxMXCzEM+hK2Fotyh2ZAbi6ujphr0okElIbsbS0BLvdjp6eHgwNDcHr9WJ+fh7ZbFbMctbZ0OwnOxKPw2wGlbVe97K2toZoNCoEs7pw0U9OTsru7X
Q6i7oTdDsA4NatW4IT0ecYYw0AxN1h+jOXyyEUCuHTTz8VI6y1tfVIB/inyZlQDNaF9lmEuH+SjzKXDsAEh7b63nr9wXHHLjY+61iLZU1oQufzebjdbhPQR/cfi
2U76LezKOZrX/sa3n33Xbz66qsCtIlEIqYbfpKCOI3yIKUeKcG2t7cxMTGBn/70p2KFkQ4egCgGa2aCtQu6sE8FWZoI0/V4PFL8ZbPZpN4DeNLwltdDh6zzNeBJ
+fjOzo64H3x/Z2cHqVQKoVAIu7u7wvE4ODiIVCol7QkikQi2t7fR0tIiWaHy8nJhfGY8JhqNwuVyoaOjwzSniGkwDAPDw8MmFjGgYDWQdam6uho9PT2SUuZYeY0
nJiawv7+PxsZGXLlyRSwnzg273S7gKLp0AKR8PZlM4uOPPxYKOYfDgbGxsafef13OhGIAjroSz/JHP5nsR+yDoKcn9UWsQ6L5qE80XYq5L/p39eyE/h0eP5fLCQ
koYdt6RPkkAJP1+HV1dRgbG8OLL76Ir3zlK6iursbm5qawS1l/j1aLHtV+miilpGJUqUIjGoKvZmdnhe6cbtve3p6YwIzuc+Hr15QUcDTbCcem+c7faGxsNMHYm
ZmhJabfU45Xr4mJxWJCtc6dNRwOY2trC+FwGNXV1bhw4QK8Xi9qa2uxuroqGZDV1VUBXsViMVRVVQnKEIBwXSilMDAwYDq/XC6HhYUFpNNpNDQ0oLm52XRded3m
5+cBAENDQxII1qH6bIAbDoehlMKrr76Ky5cvm6p8eV9paenkM3TFkskk3nvvPblX1vE8Tc6MYrAurGf5AyA1AkQ9WqvyGLixRupPa60Usw50K0NXNtlsVqL3pPI
i+7VhFCpAicAjas+KrSjmnjBy3d7ejoGBAdy8eRPt7e0m3knrmPXzPu358dwYf3A4HFLtChQmXSAQMPnf/A79a/It8BwYVGXjYsK0qTCSySRstgLFH10a3SLQx6
hnJ5Qyc3QuLy+brt3Ozo4USzFFSTBWY2Oj9KN0u90IBAJSxr+4uCjuBOHe+XxeCFx8Pp+pa/fBwQE2NjYE0zAyMmK6nsRWTE1NmXg5eZ0pBIhNTEwgl8vB5/PJe
7pSYFpYp/W32WxoamqSStDFxUW8//77z4xhAM6QYqAct/Ct7+mvGYYh1YNE31mrKakk9Iuka3w9vmDdwXXr4Dirwkq4GQ6HEY1GMT8/L6W/ehMUcgFsb29jY2ND
UIjHnTvTb2tra1KdSSWUz+elTVowGDy25+bTINbFRKknvI5KKYkPkByXfSQJ4mJGhRTo+n2rq6tDIpGQ9CerUGtraxGLxaCUEvNdv296mpemsXX35P1OpVLY3d0
VglsAYh0EAgFTi8OWlhakUilBLi4uLiIQCMDhcEgpdmlpqcQZyJxFy6O7u9uUeTg4OMD09LSgJPVAKlBI7YbDYaytrcFut5uCkBwrN4ClpSUkEgnBNZD9SUfuZr
NZSf3Saujt7cWLL74oVutPfvITKct+FjkziuEki6BYFkJf1PTxCBrZ2dkxIQetu2WxhVHMlThOEQFm6LNVNjc3kclkBKLNNB4b56ZSKeRyOcmps1KUN7/Y2CorK
4XxOR6P4/Hjx8jlCqzIpaWlqKmpQW1trSwkHVily3FK4WnKwmazSZ9IIhxDoRD29vYwNTWFSCSCfD4vjMikXdOvI8+3rq5O8vvMyjCYxp2cUlpaegSTYq2bAJ7g
KTKZjPSqZDlzIBCAzWaT/g9EYjJ9Gg6H4fF4UFlZiXv37qGhoUHATjptHABpYgsUulvrY8lmswgEAtja2oLL5UJ3d7dpjERCTk1NwTAM9PT0SOs8/o6edSAZzMj
ICLq7u00uB5UhM13EpjQ0NOD27dtizaRSKfzFX/yFqZL2NHImFEOxBVjsM8X+567JRagDiWhNUHhBrb+nK5/jgE36+Irx8+nCYFBtba0wPvM74XAY+XxeKuPs9i
fNWugn0zLR4eBkV1ZKoampSZqbZrNZjI2NYWxsDKOjo+jp6RE/38rhaJVinA8Uq3WhXy9G8RlbCYVC+Nu//VvcvXtXqOr1hc9xu1wuwfczmAcUApCJREIUgK4Yy
EXJcVih7RTGGQAgFotJvIn/z8/PCxNSeXm5oEtLS0slY3Hx4kWEQiEsLy8LxNhut+PatWsCvsrlcvD7/Uin01JxyWvJ+BHdkJGREZPiMIwC0SyJaZkSVUpJ2lEp
JTyi09PTUn35rW99y1SLweMRJk0sg8fjQWtrK27cuCHzORAI4M//M+PnQfF5EwoBl2KmepP+xzNcKfTKWkfLjBdEehmXzEX5TgpZk2cJISoAkBPTw+2traED8H
j8cBmsyESiUiHpqampiOFR9bxZLNZQcW1tLTg1VdfxfDwMCoqKoRPkBWn9KEZ42BVJXDUMtD/twZE6b9TgVjfpxVBhqiJiQl8+OGHQuJiJQghqQxdBioGZm4I5f
V4PCa/W3cVKPoOy+tDNzEajYrvbbMVOCmDwSB2dnbg9/uRz+fR1dUFp9MJn8+Hxc1N7O7uENSoTzBYo9/XqyZyb
fj8fjsNls8Hq9UlzlcDhMZc7cCfV7QnwLr52uOFhaTWbqubk5NDU1weVywe/3o7q6WgBAm5ubWFxclMI1u90uMZSNjQ1UVVWhu7tb7j8zECUlJRK7YAyJ7gIxDX
RFeO339/cxPz+PVCqFmpoa+V29TR6zMMy+3blzR9wWbi68rxsbG9jf3zfB7plSDgaD0rVbqQJ0O5vNwufzfTkh0acV6yLUhfwIZJnWEXzWhQqY+wdaLQG+bz2m1
XI4KfZAU1gpJX67zt/Az/E4V69exdjYGPr6+qRdvE6SchJ60uou8bGYi8GgLnfkaDSKn//85/j5z38uhVW6O6OUEmQh+1fqpi+h6jqYiakzXh9OeKIwY7EYbDab
pBiJVdEVA5UAg5MATK4Ez4/uxvb2ttC42Ww2pFIpieQHAgEYhoGOjg7pVrW4uCiFR/wtj8cDv98PpZ40s+Wx9IpLHaWYz+cF08BSa/3aUQkvLCxILILBdZ5XLpc
T2r3q6mq0t7fjq1/9qsmq4Fxhepa/AUCU0e7uLpaWlkRR2e0FyrvNzU10dXUdmTcnyZlVDCf51sU+S+AJ8+7W+nPeBC5Y68K3xgOsLoZVcViVhP49nUVKKYWlpS
XMzMxIcMpqInLBMLBaW1sLpRRCoRDm5+clmk7fHXiCdSgmepC1mDDYRQ6IdDqNYDAoEXTdRbDZbHJNWW3JeguWY/OcWDfAeg6Kw+GQ4iYGIImHACAZJAbnKGwky
/PVlaluXjM2Mj4+buKHCAQCKC0tFValnp4e+Hw+ZDIZLC8vIx6PC09FOByG1+sVajyPxyOLPJ/PIxKJIBaLSQMdXelub29jaWlJFr6+uTAWMTk5KSXxjY2N4rpR
dnd3YbfbZVO4fPmy9LHQ55ZhGEJQzOtns9kEORmNRvHgwQMpiGtubkYulzMFTk8jZ0YxHLfzHufPW19jPMHpdJpMXOCJdWA1sU9yJazjoBynRI6LQ4TDYWxsbGB
ubk4Kn1hVx+Owd8LIyAhGR0dx8eJFvPLKK3jllVfQ3d2NyspKxONxzM/PS3UlRYdrF3OXniYMduXzebFsWOpNXIFODEtXg64Dg120LJQqoDz1ACatA5rTfJ/AqM
3NTXE59DgDA8X6/dLrJuhu8ZzLysrQ1tYmZeTr6+ti0aysrMDlcqGnpwdOpxNra2sIBAImOr/a2lphWqqoqEBfX19RQNPg4KCMgfU6zD50dXWhrq5Ozh2ApBQjk
QjKysowPDws2SPOI51aj/1Tbt26ZbpXPCZJiZidA8xWA6HW3GgGBwel6/dp5cwohpPEqgSKvUbSFSvFOWB2G4rFGKw7uNWaAHDEWig2Bn6GABVO1sHBQQwNDUmP
Rdbp86+lpUXauDFaX1lZieHhYfze7/0e/uAP/gDXr1+XfgRLS0uyI+jjfRbRv6PUk05XAITR+O/+7u9w//59WXw0bRlDqK2tledKKUkVU/np16aurg7JZFK6VKV
SKdjtdlOcgWxMXCzEM+hK2Fotyh2ZAbi6ujphr0okElIbsbS0BLvdjp6eHgwNDcHr9WJ+fh7ZbFbMctbZ0OwnOxKPw2wGlbVe97K2toZoNCoEs7pw0U9OTsru7X
Q6i7oTdDsA4NatW4IT0ecYYw0AxN1h+jOXyyEUCuHTTz8VI6y1tfVIB/inyZlQDNaF9lmEuH+SjzKXDsAEh7b63nr9wXHHLjY+61iLZU1oQufzebjdbhPQR/cfi
2U76LezKOZrX/sa3n33Xbz66qsCtIlEIqYbfpKCOI3yIKUeKcG2t7cxMTGBn/70p2KFkQ4egCgGa2aCtQu6sE8FWZoI0/V4PFL8ZbPZpN4DeNLwltdDh6zzNeBJ
+fjOzo64H3x/Z2cHqVQKoVAIu7u7wvE4ODiIVCol7QkikQi2t7fR0tIiWaHy8nJhfGY8JhqNwuVyoaOjwzSniGkwDAPDw8MmFjGgYDWQdam6uho9PT2SUuZYeY0
nJiawv7+PxsZGXLlyRSwnzg273S7gKLp0AKR8PZlM4uOPPxYKOYfDgbGxsafef13OhGIAjroSz/JHP5nsR+yDoKcn9UWsQ6L5qE80XYq5L/p39eyE/h0eP5fLCQ
koYdt6RPkkAJP1+HV1dRgbG8OLL76Ir3zlK6iursbm5qawS1l/j1aLHtV+miilpGJUqUIjGoKvZmdnhe6cbtve3p6YwIzuc+Hr15QUcDTbCcem+c7faGxsNMHYm
ZmhJabfU45Xr4mJxWJCtc6dNRwOY2trC+FwGNXV1bhw4QK8Xi9qa2uxuroqGZDV1VUBXsViMVRVVQnKEIBwXSilMDAwYDq/XC6HhYUFpNNpNDQ0oLm52XRded3m
5+cBAENDQxII1qH6bIAbDoehlMKrr76Ky5cvm6p8eV9paenkM3TFkskk3nvvPblX1vE8Tc6MYrAurGf5AyA1AkQ9WqvyGLixRupPa60Usw50K0NXNtlsVqL3pPI
i+7VhFCpAicAjas+KrSjmnjBy3d7ejoGBAdy8eRPt7e0m3knrmPXzPu358dwYf3A4HFLtChQmXSAQMPnf/A79a/It8BwYVGXjYsK0qTCSySRstgLFH10a3SLQx6
hnJ5Qyc3QuLy+brt3Ozo4USzFFSTBWY2Oj9KN0u90IBAJSxr+4uCjuBOHe+XxeCFx8Pp+pa/fBwQE2NjYE0zAyMmK6nsRWTE1NmXg5eZ0pBIhNTEwgl8vB5/PJe
7pSYFpYp/W32WxoamqSStDFxUW8//77z4xhAM6QYqAct/Ct7+mvGYYh1YNE31mrKakk9Iuka3w9vmDdwXXr4Dirwkq4GQ6HEY1GMT8/L6W/ehMUcgFsb29jY2ND
UIjHnTvTb2tra1KdSSWUz+elTVowGDy25+bTINbFRKknvI5KKYkPkByXfSQJ4mJGhRTo+n2rq6tDIpGQ9CerUGtraxGLxaCUEvNdv296mpemsXX35P1OpVLY3d0
VglsAYh0EAgFTi8OWlhakUilBLi4uLiIQCMDhcEgpdmlpqcQZyJxFy6O7u9uUeTg4OMD09LSgJPVAKlBI7YbDYaytrcFut5uCkBwrN4ClpSUkEgnBNZD9SUfuZr
NZSf3Saujt7cWLL74oVutPfvITKct+FjkziuEki6BYFkJf1PTxCBrZ2dkxIQetu2WxhVHMlThOEQFm6LNVNjc3kclkBKLNNB4b56ZSKeRyOcmps1KUN7/Y2CorK
4XxOR6P4/Hjx8jlCqzIpaWlqKmpQW1trSwkHVily3FK4WnKwmazSZ9IIhxDoRD29vYwNTWFSCSCfD4vjMikXdOvI8+3rq5O8vvMyjCYxp2cUlpaegSTYq2bAJ7g
KTKZjPSqZDlzIBCAzWaT/g9EYjJ9Gg6H4fF4UFlZiXv37qGhoUHATjptHABpYgsUulvrY8lmswgEAtja2oLL5UJ3d7dpjERCTk1NwTAM9PT0SOs8/o6edSAZzMj
ICLq7u00uB5UhM13EpjQ0NOD27dtizaRSKfzFX/yFqZL2NHImFEOxBVjsM8X+567JRagDiWhNUHhBrb+nK5/jgE36+Irx8+nCYFBtba0wPvM74XAY+XxeKuPs9i
fNWugn0zLR4eBkV1ZKoampSZqbZrNZjI2NYWxsDKOjo+jp6RE/38rhaJVinA8Uq3WhXy9G8RlbCYVC+Nu//VvcvXtXqOr1hc9xu1wuwfczmAcUApCJREIUgK4Yy
EXJcVih7RTGGQAgFotJvIn/z8/PCxNSeXm5oEtLS0slY3Hx4kWEQiEsLy8LxNhut+PatWsCvsrlcvD7/Uin01JxyWvJ+BHdkJGREZPiMIwC0SyJaZkSVUpJ2lEp
JTyi09PTUn35rW99y1SLweMRJk0sg8fjQWtrK27cuCHzORAI4M//M+PnQfF5EwoBl2KmepP+xzNcKfTKWkfLjBdEehmXzEX5TgpZk2cJISoAkBPTw+2traED8H
j8cBmsyESiUiHpqampiOFR9bxZLNZQcW1tLTg1VdfxfDwMCoqKoRPkBWn9KEZ42BVJXDUMtD/twZE6b9TgVjfpxVBhqiJiQl8+OGHQuJiJQghqQxdBioGZm4I5f
V4PCa/W3cVKPoOy+tDNzEajYrvbbMVOCmDwSB2dnbg9/uRz+fR1dUFp9MJn8+Hxc1N7O7uENSoTzBYo9/XqyZyb
fj8fjsNls8Hq9UlzlcDhMZc7cCfV7QnwLr52uOFhaTWbqubk5NDU1weVywe/3o7q6WgBAm5ubWFxclMI1u90uMZSNjQ1UVVWhu7tb7j8zECUlJRK7YAyJ7gIxDX
RFeO339/cxPz+PVCqFmpoa+V29TR6zMMy+3blzR9wWbi68rxsbG9jf3zfB7plSDgaD0rVbqQJ0O5vNwufzfTkh0acV6yLUhfwIZJnWEXzWhQqY+wdaLQG+bz2m1
XI4KfZAU1gpJX67zt/Az/E4V69exdjYGPr6+qRdvE6SchJ60uou8bGYi8GgLnfkaDSKn//85/j5z38uhVW6O6OUEmQh+1fqpi+h6jqYiakzXh9OeKIwY7EYbDab
pBiJVdEVA5UAg5MATK4Ez4/uxvb2ttC42Ww2pFIpieQHAgEYhoGOjg7pVrW4uCiFR/wtj8cDv98PpZ40s+Wx9IpLHaWYz+cF08BSa/3aUQkvLCxILILBdZ5XLpc
T2r3q6mq0t7fjq1/9qsmq4Fxhepa/AUCU0e7uLpaWlkRR2e0FyrvNzU10dXUdmTcnyZlVDCf51sU+S+AJ8+7W+nPeBC5Y68K3xgOsLoZVcViVhP49nUVKKYWlpS
XMzMxIcMpqInLBMLBaW1sLpRRCoRDm5+clmk7fHXiCdSgmepC1mDDYRQ6IdDqNYDAoEXTdRbDZbHJNWW3JeguWY/OcWDfAeg6Kw+GQ4iYGIImHACAZJAbnKGwky
/PVlaluXjM2Mj4+buKHCAQCKC0tFValnp4e+Hw+ZDIZLC8vIx6PC09FOByG1+sVajyPxyOLPJ/PIxKJIBaLSQMdXelub29jaWlJFr6+uTAWMTk5KSXxjY2N4rpR
dnd3YbfbZVO4fPmy9LHQ55ZhGEJQzOtns9kEORmNRvHgwQMpiGtubkYulzMFTk8jZ0YxHLfzHufPW19jPMHpdJpMXOCJdWA1sU9yJazjoBynRI6LQ4TDYWxsbGB
ubk4Kn1hVx+Owd8LIyAhGR0dx8eJFvPLKK3jllVfQ3d2NyspKxONxzM/PS3UlRYdrF3OXniYMduXzebFsWOpNXIFODEtXg64Dg120LJQqoDz1ACatA5rTfJ/AqM
3NTXE59DgDA8X6/dLrJuhu8ZzLysrQ1tYmZeTr6+ti0aysrMDlcqGnpwdOpxNra2sIBAImOr/a2lphWqqoqEBfX19RQNPg4KCMgfU6zD50dXWhrq5Ozh2ApBQjk
QjKysowPDws2SPOI51aj/1Tbt26ZbpXPCZJiZidA8xWA6HW3GgGBwel6/dp5cwohpPEqgSKvUbSFSvFOWB2G4rFGKw7uNWaAHDEWig2Bn6GABVO1sHBQQwNDUmP
Rdbp86+lpUXauDFaX1lZieHhYfze7/0e/uAP/gDXr1+XfgRLS0uyI+jjfRbRv6PUk05XAITR+O/+7u9w//59WXw0bRlDqK2tledKKUkVU/np16aurg7JZFK6VKV
SKdjtdlOcgWxMXCzEM+hK2Fotyh2ZAbi6ujphr0okElIbsbS0BLvdjp6eHgwNDcHr9WJ+fh7ZbFbMctbZ0OwnOxKPw2wGlbVe97K2toZoNCoEs7pw0U9OTsru7X
Q6i7oTdDsA4NatW4IT0ecYYw0AxN1h+jOXyyEUCuHTTz8VI6y1tfVIB/inyZlQDNaF9lmEuH+SjzKXDsAEh7b63nr9wXHHLjY+61iLZU1oQufzebjdbhPQR/cfi
2U76LezKOZrX/sa3n33Xbz66qsCtIlEIqYbfpKCOI3yIKUeKcG2t7cxMTGBn/70p2KFkQ4egCgGa2aCtQu6sE8FWZoI0/V4PFL8ZbPZpN4DeNLwltdDh6zzNeBJ
+fjOzo64H3x/Z2cHqVQKoVAIu7u7wvE4ODiIVCol7QkikQi2t7fR0tIiWaHy8nJhfGY8JhqNwuVyoaOjwzSniGkwDAPDw8MmFjGgYDWQdam6uho9PT2SUuZYeY0
nJiawv7+PxsZGXLlyRSwnzg273S7gKLp0AKR8PZlM4uOPPxYKOYfDgbGxsafef13OhGIAjroSz/JHP5nsR+yDoKcn9UWsQ6L5qE80XYq5L/p39eyE/h0eP5fLCQ
koYdt6RPkkAJP1+HV1dRgbG8OLL76Ir3zlK6iursbm5qawS1l/j1aLHtV+miilpGJUqUIjGoKvZmdnhe6cbtve3p6YwIzuc+Hr15QUcDTbCcem+c7faGxsNMHYm
ZmhJabfU45Xr4mJxWJCtc6dNRwOY2trC+FwGNXV1bhw4QK8Xi9qa2uxuroqGZDV1VUBXsViMVRVVQnKEIBwXSilMDAwYDq/XC6HhYUFpNNpNDQ0oLm52XRded3m
5+cBAENDQxII1qH6bIAbDoehlMKrr76Ky5cvm6p8eV9paenkM3TFkskk3nvvPblX1vE8Tc6MYrAurGf5AyA1AkQ9WqvyGLixRupPa60Usw50K0NXNtlsVqL3pPI
i+7VhFCpAicAjas+KrSjmnjBy3d7ejoGBAdy8eRPt7e0m3knrmPXzPu358dwYf3A4HFLtChQmXSAQMPnf/A79a/It8BwYVGXjYsK0qTCSySRstgLFH10a3SLQx6
hnJ5Qyc3QuLy+brt3Ozo4USzFFSTBWY2Oj9KN0u90IBAJSxr+4uCjuBOHe+XxeCFx8Pp+pa/fBwQE2NjYE0zAyMmK6nsRWTE1NmXg5eZ0pBIhNTEwgl8vB5/PJe
7pSYFpYp/W32WxoamqSStDFxUW8//77z4xhAM6QYqAct/Ct7+mvGYYh1YNE31mrKakk9Iuka3w9vmDdwXXr4Dirwkq4GQ6HEY1GMT8/L6W/ehMUcgFsb29jY2ND
UIjHnTvTb2tra1KdSSWUz+elTVowGDy25+bTINbFRKknvI5KKYkPkByXfSQJ4mJGhRTo+n2rq6tDIpGQ9CerUGtrax

EGDm8WTLAc4D0uOnUinMz89LfKGqqgqtra2SGRoYGBDmsK6uLgQCARwcHKCpqUmCiWxpsLy8LMhWXZEeHBxgfn4e6XQaXq8XPp/PhCkhMnRmZgb5fB6dnZ0S4NQ
h30xdTk5OIp8v8Fhev35dNoMbN26gubkZjY2NsNkKhWRsgQcAbW1tuHDhgjRPfhY5U9Rup5Fiu73eiXl9fR2AGbegl8jqN5CiL3TdZC4Ggy6WudAfAQidut1ul0
KebDaLxsZG8U0No1DFWFNTI0Ey3W9MJBIIh8NIJpPo7e3F8vIyamtr4XK5JPugj5U8C4lEAgMDA6Z+GNlsFjU1Nbh+/Tqef/55BINBjI+PSyBOD3wdZzVRTluHw
apFgroIGSY5LM85EolgcHBQUpl3797F8vKyWEe6RaLHHYCC+6krA7oMAMTndjgc2Nrakh2TsPR0Oi3nTirAjY0NtLW14dq1a3LsUCiEeDwOr9eL9vZ23Lt3T6y4
2dlZ9Pf3Y2BgAB999JHA1Pf29rCxsYGVlRX09/fj4sWLQpTC+7u3t4eFhQVcvXoV1dXV6O3tlYrP5uZmKZlOpVLw+/2IxWLwer24du2atAzM5XLo6OhAKpUSZZD
L5fD48WWMDQ2hsrISN2/exNzc3JcbEv0sn9UXM9maSDemKwNrFuK4Y+mKQd+ddAVhtVZ0xcFjAgVs+sHBARYXF9Hd3Y26ujrMzc3JLpnNZpFOp4V0g1kUwyjQt0
ciESEd8fl8qKqqkkms4x105CfrCljKTFOefj/TWlVVVRgeHsbbb7+N73znOxgbG5M4TTGleRqxFnXxXBhtJyPT3t4eotGoqW6AaU72B52dncWFCxfw+uuvmwBEg
DnzYE1b0qwmOnJ/fx+zs7NCBKPHQOLxONbW1iSt+sEHH2BpaQlLS0soLS1Fc3MzqqurpUqU7gTxBgwyrqysIJVKoba2Fq2trULyyobExDT09fVhcHAQVVVV2Nzc
RCKRQDQaxdbWlgQhBwcH5b51dXWhra0NnZ2d8Hg8SKfTUkrtdrtFcTQ0NEhJOy1ZNuGhVdTZ2Ym+vr5nCp4DZ0QxUE5yGazv838A0vqMqEeax7owG0E5KfhoPe5
xvvhxSqaiogIejwc+nw+dnZ3CEbG6uorV1VW0tbUJYzMnBzMUyWRSTNFQKCRchCRZ1Svy9DHs7u6iqakJJSUl0mpeKYWZmRmZSDprdklJCZqbm/HSSy/hwoULWF
hYwMrKiglMZJXjXAfrdbLGJJi9IJVZNpsV/zoej2NmZgZ//dd/DQC4cOECrl+/joqKCjQ2NprcQF0B6TBo3QXKZDJiTbGwiEFI1nGk02lZkFQI5eXl8Pv9yGaz8
Hq9mJqakoAvsxNerxeGYSCVSiEWi2Fzc1PaAHZ3d2NlZQWBQAB+vx8rKyvC01BdXY3R0VHpX8LMRCqVwvT0tFgJ5I3kmJUqNAY2DAOzs7NSml1fXy9EyOSzYC0O
5//4+LgAyG7evGnKjpxGzoxi+Kw1Evl8gdmYDXAZfGSKi1F4wBx5tyoga27caqoXG6/+Ohcig4NerxcdHR3o7OxEVVUV7HY7/uqv/kqak3ACkFWJqTVO2uXlZbn
xqVQKZWVl4ibpjX75SGIRNpGtqqpCLBZDQ0OD7NpWa4vX0el0Srn13Nxc0b4XPGf9mLroWQ49QGr9Pvs0EuGXTCbx93//97Db7ejq6hKodEVFhYlGTT+ujvfgsX
m/renVeDwuLojL5RI+UL/fj/39fbS3t6OiogKJREIo3BoaGrC6uopPPvkEP/3pT7G8vIxEIiHp8EgkIk19ZmZmkM1mMTAwIEzbQMFlicViooDq6+uF/ZluXiwWk
wyGUgrXr19HdXW19KtMJBLY3NwUchbWWbBCdWlpCYFAQBC0yWQSyWQSe3t7WF9fl6xXZ2fnl7MTFXCyiX+S9UDzjcUo9L2s8GXrhLFG2ItZDMXGpAOQgOIxB/qn
k5OTuHv3LuLxOK5du4aenh7EYjGUlZVha2tLOjTV1tYiEolImoxl152dnXA6nWhsbERFRQUqKysxNTUFv98v3Imzs7OYm5tDKBQCUIhc07pgJR/HxMWoK0vgyYK
hwllbWxNotVUJHAcL57Updo+swqpRLtj9/X04HA6srq4iHo+LIrQW/hRLQ+sZGgAS1yAK0u/3IxwOi1I6ODgQjEIsFoPT6cTy8jImJiawvLwMv98vvA6JRAJbW1
uIRCJYXFxESUkJxsbGZMMhniGRSEhrQh14xMWczWZRV1cnFaZ0J+PxOJLJpCAh+/r60NHRgWAwiM3NTWEPJ8s3szssEWfsgRZIOp2WhjO0Gkizf+3ataL37Dg5l
WJQSvmVUuNKqQdKqV8evuZWSv1YKTV3+Finff5PlFLzSqkZpdTXTnmMp2Yg+DldWJlHNpt0On0ksm7dvYql3YpNYOtreqyBUmz35EIkS1J3dzfi8bhAaAmbpUVA
xCaLinw+H9LpNLa3t1FXVydt97iQZmZm8KMf/QgzMzNYXV3FxsYG7t+/D5vNBr/fj4WFBUSjUbS1tZlo4Zi5oHXC8yAYp7u7Wzomd3Z2Cjms9RyPsxiK4USOU/j
69aEFwZ3xvffew8OHD1FZWXmE5UgHatFdyOfz0jAnn89LTp+7u9/vF4VOVGYkEkEgEEB1dTX6+vpgGIWK0Lm5OeRyOYyNjUnxGH32g4MDPPfccygvLxfS3PX1dS
FwuX79uoyByM5gMIhoNIqSkhK88MILJgwJ3RIyTZPLgZ3LSBdfWVkJwzAQiUSkWe/w8LD0wAAgJQFMbZMcZnl5WTIazyLPYjG8YhjGqGEYVw7//x6ADw3D6APw4
eH/UEoNA3gHwAUArwH4z0qpp6IrTlIMVvdBX6DsQF1VVSUBLhJ36L+tp9+OyzjoKSXruIr59cDxFoPdbkdvby+qq6uxurqK7e1tdHV1IRwOw+fzoaOjAy6Xy4TS
pPXAxcv0GmsR1tbWkEgkZHdYWVlBOp2Gz+fD7du3UV1djYWFBQQCAYyPjyMajeLg4EACj7qJr+fAJycn0dzcjLa2NjQ3N8Plckn/R2ZQSAJ7XHDSCpTi9TxOwet
CC8Jut0uh0QcffIC/+Zu/EXg5u0/pvUxzuZyJ94A7Mgva2MKPPTXdbrdgBtgQFgDGxsaglBJkJGngvF6vpAFJBdfU1ITOzk4T6nBubg77+/sYGhrCnTt3BA2azW
axtbUlYKgXXnhBsAgtLS0S96FyAIDR0VF0dHTA7XZL8Vd1dbVgXSYmJpDP51FTU4PXX38dra2twstAoBPnSCaTwaNHj05kHD9Ofh1X4psAvn/4/PsA/pn2+l8ah
pExDGMJwDyAqyf90LMOmt9hFDaXywmnoF4nYRUufKtC0D9rNVWPS92dtIty4pLTYGVlRViVPR6PmMjxeByLi4vY2tpCe3s77Ha79AwIBoPwer1wuVxCIsIWZl6v
V1iARkdH4fV6kc8X6vPpt7e0tAhPIa2TYi6A3W4Xv5+LiaSk5GBkBShhxbp1oF8f3c2wKoOTriOvHU1kohRnZmYkrsLOS0y7kUyGbhdZrD0ej8lKYl3Gzs4Orly
5grfeegs3b97E/v4+AoEAUqkUhoaG0N7eLm4UO4QNDw8DgOz+TD1fvXpV4kP8zsbGhvRara+vh9frhdfrFYIWtukbHR1FdXW1kNow5UpOSJfLhbfeegvf/va38a
1vfQvNzc1SVs25RCi5zszkdDrh8XjEKqRyXFlZeWZaN+D0OAYDwN8ppQwA/6dhGH8KoNEwjDAAGIYRVkoxUtQK4BPtu8HD10yilPpjAH8MQPwi3cTSH4sO6PA9T
lSdwdgaSOTzYpj/w7EcyYnzdf6d5HrolgyF+ezq6mqhbaurq5Psyc7ODiKRiCAFmUnhax6PB/X19chkMmhtbUUqlRLXYmNjA6Ojo+jt7ZUy54cPH0rEvb6+Ho2N
jdjd3UUikYDH4zFhOqzi8XhQUVEhOAlaDGwfv7CwgIcPH2JpaQmxWEzqPqydl/Rro4ORrBaY7upZhSxS+Xxeqgx1ujdrMBmA5PUJ6uJ1IF2dUkoa0BCkZBgGwuE
wVlZWMDAwgKtXr0pX6bm5OYyMjODGjRtSspzP57GwsIDR0VGMjY0JqxXn4Pz8PBoaGnDlyhWhw2PfkM3NTcE0jI2NSepRt1Sj0SgikQja2toEIn1wcCBYFn6efS
oaGxtNv0HcyN7eHhoaGtDQ0CBxqPHxcbS0tBy51ifJaRXDLcMwVg8X/4+VUie1tSm2ko9sF4fK5U8BoLe312AW4KTd2/J9AE9IQrib6h2M9JZv1kera2H9jDWCf
+Qk1fGFVfl8XqLKH3/8MQzDkAAjUNgZnU4nhoaG4Pf7sbm5ifLycrS1teGtt96Sprfl5eU4ODjApUuXEAwGEQgEMDk5KbX8gUAAOzs7aGtrQyaTQUNDA5qamRu
fO3aNeRyOXFZdBwAxWazSWCq2PmUlpbi+eefx6VLlxCLxTA5OYlHjx4hEomgvLxc6MSKXT/r5H9aulO/F+RpoLK3FlXpACiHw4HS0lIJrvJ7SilBN2azWSwuLuL
q1au4cuWKoA4XFxcxPDyM1tZWeDwe2ZVTqRR6e3vR0tKCeDyOfD6PcDiMeDwuL10Efb29jA/P48rV66gra0NLSt0tCAaDsNsLPUE3NjYwNTWF7u5uKaza2NiQOU
TuR/ab5HnZ7XZ0dnZiaWkJyWRSgHILCwvSp/Lq1asIBAKoqKhAKpVCc3OztAvkNVtYWPjNkMEahrF6+LgO4D0UXIOIUqr58GY2A1g//HgQQLv29TYAq6c5ztMCj
cXe29nZgVKFpijs58cLS7dBR9Adnofpt62Lv5gZXCzWYB0Pj8cCHb/fj0wmg4qKCni9XkQiEfmdyspKeDweRKNRaRTLWAl9S6aqstmsTDiCoNLpNJqamuB0OjE3
N4fV1VU8evRIFENra6uJS4AAqWLnqcdvit0D0rE1NTXhlVdewXe/+1380R/9EUZGRmAcQnz19LA1fcj/rWjGkzIcQAGTwMVApcOaBz3OwGMQp6F3JAMKQdeysjI
Eg0Hs7u5ieHhYipHI2sR0I7EVJGPp7e0VN4uU9A6HAxcuXJAUNftKRiIRlJaWCgELGaX29vawsrKCra0tlJeXY3h42HTd3W43urq64Pf7hZmb887j8aClpUVciZ
KSEhOs2+fzwefzSesEpkwZ/9ja2kImk8H4+Pix17mYPFUxKKWqlFJOPgfwKoDHAH4A4N3Dj70L4H8cPv8BgHeUUmVKqS4AfQCeWvOpT9KnBSJ1857gpsrKSuE+1
HcpqzWgIyGtMYZi9QEnBc6spjDz6+l0Gh9++CFmZmbQ39+Pb37zm+Pb37zm6ipqUFTU5Mw8JAkhAuZlN/cKXhuLNUmn2BXV5fceMMoFPM8fvwYgUAA29vb8Pl8uHHjhCo
c/xcNAw88vlJ/+vZHP29yspK9PX14e2338Z3v/tdvPbaa2hpaZEA4nHXh6Ir7pOQlkQr6uXGDocD6XRaFA3fY2WijpPgmA3DQHl5uaQXvV4vGhoaYLPZxISvr6+
XPg57e3tYXFwEAFnkAOT1/f199Pf3o7Ul

```
    "source": [
     "# Transformata DCT a unei imagini\n",
     "\n",
     "Transformata DCT se extinde la mai multe dimensiuni similar cu transformata DFT. Pentru un semnal bidimensional,
 precum o imagine, DCT-II devine:\n",
     "\n",
     "$$\n",
     "Y_{m_1,m_2} = \\sum_{n_1=0}^{N_1-1}\n",
     "              \\sum_{n_2=0}^{N_2-1}\n",
     "              x_{n_1,n_2}\n",
     "              \\cos\\left[\\frac{\\pi}{N_1}m_1\n",
     "                \\left(n_1 + \\frac12\\right)\\right]\n",
     "              \\cos\\left[\\frac{\\pi}{N_2}m_2\\left(n_2 + \\frac12\\right)\\right]\n",
     "$$\n",
     "\n",
     "* unde $n_1$ Č i $n_2$ sunt poziČile pixelilor pe orizontalĂ, respectiv, pe verticalĂ\n",
     "* bin-urile rezultate corespund poziČiilor pixelilor\n",
     "* spectrul este ĂŽn continuare simetric Či par\n",
     "* proprietĂČile transformatei DCT-II sunt respectate Či ĂŽn cazul celei 2D\n",
     "\n",
     "Ă n Python avem rutina `scipy.fft.dct` pentru 1D Či `scipy.fft.dctn` pentru generalizarea la semnale $n$-
 dimensionale. Dimensiunea este determinatĂ automat dupĂ forma semnalului; tipul DCT poate fi specificat prin atributul
 `type` (implicit II)."
    ]
   },
   {
    "cell_type": "code",
    "execution_count": 4,
    "metadata": {},
    "outputs": [
     {
      "data": {
       "image/png":
 "iVBORw0KGgoAAAANSUhEUgAAAUEAAAD8CAYAAADpLRYuAAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjMuMywgaHR0cHM6Ly9tYXRwbG90bG
 liLm9yZy/Il7ecAAAACXBIWXMAAAsTAAALEwEAmpwYAADZAklEQVR4nOz9UahtW3MeBn41xphz7X3u/WVbseUWkojVoIdI/ZKOcQLuh9Ah2O2kI9MQUOh2q8Ega
 Bxw6ECQ42eBOw3BT3kQSWh1x2ljcCAmGIJRJw95iG0lcTrIQrFsx7bawm47kf7/3rP3mnOMqn6o+mqMte85597/1zn3bv93Dzicvddea6651qxZo+qrr74SM8PL
 elkv62V9XVf5qk/gZb2sl/Wyvsr14gRf1st6WV/r9eIEX9bLellf6/XiBF/Wy3pZX+v14gRf1st6WV/r9eIEX9bLellf6/XBnKCI/H4R+WUR+RUR+ekP9T4v62V
 9mevFrr/7lnwInqCIVAD/PYB/HsCvAvjLAP4VM/ur7/3NXtbL+pLWi11/d64PFQn+HgC/YmZ/w8wOAH8awI9/oPd6WS/ry1ovdv1duNoHOu4PAPg7y++/CuCfXp
 8gIj8F4KcAYL+v/9Q/9sMfY1jBaRUAYCZQiD8XBjP/2QAUMQwr/osADGaLGAwCVUG8NF9r8Rvid3+uv4+ZQGRGxCLz/W7P2eK5yONYHjX+j9fxeDz2m47nj1kcz
 z+HLJ9nPlEAuX0e1uPjchZ8nA8BgPJ5Tz/Qk+cBOP6H/+8/MLPf8ZmTfVnAF7Br4LO2/b0//A10Kzg1bBsCtSe2Hde9iEFNYHFRzPzySNg2DGm3tCuay9PLudqc
 hL3jDXbIv6+voQ3K8vQ3PTZf89Roxe2u2GcfQzyuy4FK2C6fvn6o9cPZ8ks+Jss9gM8eID7b8bfebNsfygm+6Zu++ZbM7GcB/CwA/M9+7Hvtf/f//P349fMeagU
 aTuqT84IiikMbmig+7TsKDEInCKCK4rFveRHPUT/z/T2cDVtVDC1odeD1dUctiloMasDjsQEA7vYTRYA+Co5e0aqmUQJuoADQtaB3N2gRP5/zrNBRUepArQazcL
 AqKFVhJhijoFaFjgJVQQkD4eXjZxi9QHuBhGGYunFINUhVv2F68Zum6Y3j1bMCY154VAPOcmt0XTwHEAM2uzG8v/2Hf/pvfZvX+uu0PteugVvb/r4f/cfsD/zf/
 7f4Vr+g67Ttbx132OrAOdyOHvp2Y2uA29unx469dagJhhYPDgzY28D1bDh68/thFNxfDrx+vKBWRSkK1YLjqDAt2C8nSvHn0Q5vPhhtu1eYSp4nAIxRoEdF2Ybb
 IOCBRth4qQZTfnaBnQVSze0WcDszgRSDdXE7VHHbNPjPYv57gTvKwb/TmcZjCogJrBqkx+ZRDBLvJafAmh/XNvPnq8CK4W//n/+NN9r2h3KCvwrgh5bffxDA333
 bk4cJPu0XvO471AQaDq5bgWrFXT0BAFsZaShnXKhaFSKGVhTX3jBMUMUwlot4v3Vce8Oldbw+NtzvJ45e0UfB1gZeXU6oAaoFpwkubaCrn8Prxx2tDTcgdcezOk
 DVaVBt61AVjB4OuimGeqQ5ekUperObGncwE5gYTAtKUUg1FPj/etQZ8XYBEA5NDIibgudiKpCqMCtuWEOADmDTZRf1Q7jB2TSwp9Hly3rT+rbsGnAb/rTv+OS8p
 E3xmp2jZjR3ad2frwWP3W/Lrahv1mI4eoNmxgP0UVGLYW/dHVjzx+4vB85R0XtFrYp9HxDp7jxVsLUBwB2bLZGYhIOEiUefxe+zUty2yz7csYy475piHBVSFXr6
 fSF1brR2FrcxsenQxICK6QARPzcFenFbjHtWeoHV4b+XiBBrRH+nQLq4w9vdjs3cOequ7vTCwUpkhfIO2/5QmOBfBvAjIvLDIrID+AkAf+5tT1YreBi+Ex7aoBA
 89A3nqCjh4O5qx6t25A51307ctxPX0dCK5i67xUWrYtiK4hwVx6gYKrj2FtGfYG8DY3EgtRi2NrDVgVYHWhjgto18joZDa21g24bvgmE8ranvjgA0dr3RS0aDAN
 BjV2YqI2LuqMWgveRumllsd4cnLf5QEGkDYKN4iszfmcYc1Y2xGuS+ZzoiLaK+tjg/LkaNCyTwst64vi27Bvy6HJEGX0eDmeA6Gg6tUAhaUXy0XX2Dh9vDXeu4C
 6d41zrOcJ5F/B9t59orzlFxPTeols+kySLmm6pYQi1cpRhqU7ef2EARTq+UsMvcvAOKEbc7EYMOSduyo9yksuUyIJtCqvrrhsTf4wSqZVQHMXeA8ONz8zamxxrR
 31nyONYMVg16txhxPCY8jzikNfNjvWN9kEjQzLqI/KsA/lO47//3zewX3/Z8NUAhnmaGkzi04r6dUBM8jg0ftysex4ZWFHvp8wMUzVSia0ErikvreOwtUwszQau
 KM6KxrRjOUXC39WksYqhFYdZuMMK9dXQtECDTV4/oBNs2MrUQMbSm4RDDcVZLjK9UhTVBP2tGgaWo4z8aqYIKzscWhumfTyJCBHx3tqPkLiolIkUgIkM3TBvxuU
 fgpsUypebvNzvv8UIX/SLr27VrgHZd0xYf+oZjVNxvJ87hj+97x3U0FDF8tB3oWlDEcI6atv14NtxtHa0OHL2iJD4smVbTnpid0I5b0XyOATd/673G/5GFFAPs1
 uYYAMCAsmm8b9i0CrApyqYJ0dCpGbORLRztWaadSmzIKu4ACoBziRBLOEp+92IQOkcgHCY84qOjBdIRyiF+hQY+N9T7UOkwzOzPA/jzX+S5aiUiOQePhxbctRND
 S+x4DddIEQ6taGXDpXaco6LGhS/i6epeh6fFWqCLI1OT/LTnKNjbQA2w+OHYcncVMTwcG84wjlodW6lFcQnDPc/5tTm2Nz9Lre4IfRe2jBQBZGrhO2lEciYJCku
 NXWuJ7PSokOapMQBIQ0aWNgI3BKaTyzByMbQhbphhwJme0KAsUhIa4Mt66/p27BrwrOAIJ+gZScFd6xjh6IYW/IOHj93RacG1N2x1YITNEdJhZjK0RCrsafK2OV
 RUosAHMX99wDoPx4YzHKUAGFpwnhVmQGuaUeO+D6gKei9QOsB4b42MxyJVNhW0bUDV7a9sEfFVRSnI54iKB39McffhG3MPezvnJu0fAjOiLMxYJP832qcB0qdDl
 GvxKDWwQBg8TbaJB74RzY31wZzgt7NEDI+RDnMnfOgbzCSd3DEq7lpgG5FSqAk+ve6OB0bRgynuOQpqMbzaTpxhcAjDsQq8vu64209UMew0lgCpVQt6LxO3AyDi
 O6xHgB3n2cJJWhY5iA1mgSMKICJLOq1elBDiGEUh5sZXmqYzFHhEJ/uINEQSr8HpuyuLJLBId2kjo2Ta7B8oDEk8Os2qocCjQGKG1/rhL/bXbAkMp1YUGL6xX3F
 qxWNs0q0oDMgob2gBigKjYpjg9bmhFsURG/LRa8I5pgVbHRkRbnXke5qJQ28G1OIZ0BglccF+VkgxnIdv1r6RFoxe0LaB41oTF2TkyCzoPGs6xCx4hH3bkm+nfT
 eD9QJpmpu2ber2WMdMlW/gGczUWMIZ8oOyChxYtgyZaTCQxRIZgbMzeDjf7gWfhRNUE5zD099DazpA/o076OtzOsYauKBWL5Y89oa7AIkfzg33W8cwwWNv2OvAE
 SB01+K7cKS0R+x6jCavR4DS28Bl67ieLf/vmFXhUhR7G3g8Nuhwh9miAs3Ijzsno8E0HqahNqtwbe/+e0HihNwZVQuEaciIXRSOGUqkAzYko8KMDokD1UhFugAX
 lvEQqUr8rsvPL+u9LTPHou/bmQ6QqXFXZyEAwNEbhgqAir0N3G8OBZmJFzz20+13VNxtHX14xLaFbXIRElITjNjUaXvuwBS1DVwuHdfHDdvecR4NFjbXu2co+z7
 QzwobgmEVZe+5icuSQZgCEgGdPlZIsyjOTYin3veAaHzTzteHzRGPBJaN+yzAroEdLoWVeJ7t8PvgsQIFCAIQbIuqsXrgslaR37aeBRhkEHQr6FZuCh3XKIwc3R
 +rgdtpOLdPzz0dZCuKMxxcLYoWqQPgTuWj/QDgqS/pMTRA4ioGTxG2bUAEiU/2cGytOPWgtYG7MMp967jc+c9MoVkgKcWxld5rRpFJlzlrUmEghtF9d25tOGAtS
 FwmeYEmCU4rcZchMEaRGelhFk0QqXLTycVq6mnygiNi01mAeVnvbSkEw9y+H3vz4LvXjO66lqRq1bhe17Phk+sl4aDL1nH0mvSYFlEfnemry5HHIntiaEFlKt1G
 2i2DteNo4Sjd/lrThG8ulxOtDbRtoG7+2h4ptA3JAiHTXv5fLnFeR4UdtG1gXP3cSzOUGnZJu4tIMp3fkIkFHoFb0wECk1YTmKFdwpb5HDFPi8WpMygG2+Kxt6x
 nEQnCnC5wqR1NNAsV197wKIYWDooOjlHitbfg8w3szau1TAo0IsYRlIO71rEVxf1+Yg8jOos7plMFtRha7TjDQAFk0aP3ild3h2MnYVCAG62ZZfTn9Bl3TqNXbH
 u/4SwSfymVvBRABwAT1DYwekXbOsaQ4BoqdDjVgZVmptpSI80oBsOs7qEY6q5evSOGXAx29Z01qQsaJwU3SCEn62W932Ue5e115CZ+jIrHs0J6DZxOMoIbUeUdk
 cKW4oUNZhmEbEQsqDMVe3PeIHmwRYBj1g4TplEtbhfwyKlWxXlt2O96HJNFk6VwpzVt2roX7WzIhF/MK3/kBZZNoSKZnUAF9TLcMQozlKByMWMins2ITTDxQBOn
 eQXjgYFAPtds8l5vbjZMjJH2/pb1PJwggGNUXEfDVkZGZkdUz9xRkSjqfxvBm2p1oI+aFWAgOkdMcI7JoztHQYlC1OtjgwC4bB0jHCCd62XrYXCSUaBENMrUFrH
 jEoP0ypphDN/VRuzygKfNo9fgB7pj1ASWBaVOvFAiIqxRXTZ12kwfC1dwAYqlajou6wshmpW4tfCxq79mUzfOOv8mUeXLNOVlvdd17RV7q9ij4LHVgR622erILI
 HFEmYgIl546ygYJhMqCzoYj0V77qPgerTEp3k1GRHW/cTYJOGa82iQajiPhlFHYs6MFmXJUGxIkvGdvRB81GLQa0W5DI/yxCCbhH+MiDHI+9oLyqbRMBD49ooJE
 gd80k0iR3Hi83CISI4CC/zceYZLeg0EGwKTf7gEBG9az8IJMqy/9oZtH9BoK7rfTnzz8ZLOCXCH8Hg63+84tyxKtIgehxac8WVsVXGOuXtyMd3+9HFPULeIoUfV
 mI4vn4tZ4GAaMKKzpQePynfbin561wgQUWEYswEJTHNnNpvGjvh7psbkehWgSOzkQxJ/BBD4igKjAE0xO0ucqwXD7DwhwMzUg8Y2HGR/qQx/mGVw8v453AlqbOS
 XreObr+8g4kUN4niMCLsWHEfLyKwVxQh8GGU6uIfrljQsESTufL22cGqEYBzqAbjpFtSmqICnulpQ27iBcvrZgOAaGgr6NbpGChKOQZCRHZ8es2UvHieNJhkNvW
 CIzSKJAGD3ymMN2gymAxODbXFQcv8uI7IejWgRc8NnlFiw8A8jgnjLehZOkBf0iIjuUjsKKg6t2R60gr++YzqxuYsbCy+shCPso8C27iToSBGu3Zn0aKzclixwH
```

KTgLJU0EcO+u/MtZXKqSlS+PF3RNDwRQ9sGzJDGRN4VgWYSTxlV9u6OUUdEixq7qJVsR5K6bGQmMPYbq/eYWheg8r0E45iOFYBjfYbkDUp1GFkEvqNGUcWOl+rw
+17unILn13ryA6+jZsHsMLd78vcGnVcxHIfzB3Xz31UFx7FFJ4jlBtx7xXk0tOS+wukyreO4OgXsPFpu4iJAqSODgDEK7GwoEZmqehZTcsNdYZYl4xiOBerhqb0
UJ1LXNjDOOp0l4BuuANBwblHwyPZQOsC1UsEqNDA3b6bE6+LmnuFy/L90sbxtPQsnyFPsoySbnqmok5g9ShsmgY8MaOAWAmDf/cJ3OqKgBZyj4hyTsuL0GM3ozX
mBSAD6ONoCEHsHyHk29LPi7t4LK2aC3uXm7Pl7i53UDXqSTIsY+lnd2bGNbkTvsIlHc8FJHGfNXVTjuCMqbXOb9V3QVFCaQuIq6rkQXAOjERXoYzi3gsBiIjodk
tiJnSWrzi/r/S/VglMLzmPPgt3eOg603HSJQTNjAJylUIomNYW81eMAakTvuRnX4ZkC6SmC4PL5a8g59OisQEeFDkHbu98PZcIrAsI67vMYkRIy8TY6gQrbnDwQ
6Ef1SDGyr9LU+46bQoN5AeKJvXhazULIGRFc4NSIDTq5rqTMbIEDDkkqzGcWe+MN04m+ZT0LJwhBChbQYV3jS+zR8qbmaQX7LwUzjW5F0ePn9TlMlZkecPfkzne
3n3g8tozq2AECINJad4S1jTRCALlLk2/F6i2Z+n2pOgPhlGBhHEGSFv+ZNwCFFWrzIogw2+gzjSj7QNmCcBp4iB416TNA4DkmsEkby92RlAU/Nzg+eBTncgleOk
c+wBLxwggxZ89U/Bo4zixpJxbwCgsTjPQmeTkcHknMbNMcFVLI5bPchEcvGGGbFFQAABvVMTOZ2YMfb7m3dGYTIlFobIFfRjSWffDF3MkxoyBE1wtkYGLOF40Wu
7A9RFbyWJOxIGfxqm6X6BE0p8sAM+XNaNA5v3nSwHR6ZFPwdUv3ydP1PJwgZrTGosilusM6IpWo0Qc8KQCSDoeOjdFjXzA1XpDWFBQ/qNXpAtlqpCVb3uiI2uIQ
2f8rxObCuaoJikUxoyrGEIzeovpLQ7Lc3ZkanWdcORo/kM3rqo4D0kgtqmt0XrUpTlJi4BVpYwsc+YBwI4MsbXaGTLczbajmDpAb5f4SCb7/FZFT2OhWFF1qVnE
fju2my4g2x64iEb0pVoygyhCr43NNC/qYj48xJeI8RS3BJUVEbdEDfFRgD0cW9xbt3YBZgBOBYfYIe1SIpFVJNWdcnfE+lfczgFHcDoGM6kwFoEjCHu16RQMjjK
znFCSgXnBruwqIlRRKyOLHU1/Hv79jPYutX2D4aD9hJvj02G/khPY6UItlYUR5YZnJFacKCNzBFbFUfdnayCiv9xKG5s9z7t40FA2+U4lolCobJbh7pU6OILtE9
r07SXoRU2DVd+7S7D6xVJgp4RhrG953jKAxyIzUAAAWUlk8VrQ0bXc9HGWkw1WjYZ0ef6rV3LDvycGKooidi5KITcN9We9vCYD7PXrgjy3tl+yCrQ7sIZawavnV
qmmLJZwYgLRDcll11MDw4rUq8XtJ52i0R4m+9xF2Uwzbq2MKJixpI/l8ElJtKb0l7qDMxCu8i71a6AfWu+E2ma2eCtl1RnLE6bZgLIQtQgUSBT0ATuwvNnmATws
gPCUNVRmV2Rli8fdIm291DW/Xs3CCAHAmFcVZ9eybLOKFjevZsLeOu60nPYgfa9U+O6KAQhHJ3uuMvOBafVTVoHO01bGKG6A7Kf//DNrBeVYcR8N51qzgUjxh1Q
zMnkyVOAZb5oKYGsUTINKeomnkVP4o1Yml1A6UYplqjO58L5cxqpMU3b2zpLDXWDBVZPYxmfdMD9YUQT4fQH5Z39li+ns9G14fG/aoolYxF/YYNZSJehb4mJUAy
KzmuLYbKpM/Z2Y7OmYKq2fB+TA7ryaHzu2qhJ1piCr0o6JfG/T0Y5Y6QjzBHWI/amLwxNNLRIEWsAzgmcpnRYHjrZtFH7zOfnhWjgPDNqrFDHF4hvjhOfFrPxi8
O2QIbFNY9N2zuFKuizIN/71lPYt0mK1BfZQoejgHqgdx9DEcG3l+BiRA3HuBVWTERtFI4ncOLM8uDsjs9QWci6fBeSIOsoLQI9JjOsbjaLhczjxvbz7vuF69js9
U20xgi7wW36/3ijGQEkUlsECm9IrZwG7qRoXGDoGKca25y5qK79TESK4Fdjdg4Rh9B54YolxG8Amx7CAI0MfP92W930Xay3m2SY1CiP+a4PFsSZvy6G2qFDlGGI
Tprc9UWAFjOlyXuzsqs57yBhYXmz2AtBMpXhgRYKbVG4LOFXYYUBHCUXIRe5QArVUCbxRgHFHoWAR/QZGjJaMxlSToF7bUWThAQ9BkYlPO+xaxUccXeBe8xi6Lg
4//uriDNIFRoeYdG/zzcIIQ9FFyxxtagDqSM3W3dTwcm/dLBngMTGB4BHYC0DkKjqPeVGgt6CSMpugImXKsHCsWPdhDSce6tYGPXz3ik9d3UYXzKI9FFeJ9x0JY
dZ3BguvjlmmQmafQbEyXqG6f58Q8RSwNiE4RALZXB0avSRfIXVcFuBs3StM0LgCYBOrli2e0GCnOu8Djl/WdLeK9FNSl7uX1bNHp1HE9t6RssTOon04shhYMBWo
b2PbusM5Zk94FILuDJFLYVZoNmLCak59Lsg/a3qPrCbi/P6AqeHzYoadXc9lxIWLY7kYwHApGd7K/hK1qkPrXjbmy2hwrCyqIinFwAPUsk6nATZhO8ixTOYZYYY
/okM0BxAvBYghg+6xyMy2WdzjBZ5IOuxI05cPp7GqQRr0dyMmifdXrEyyOZlHBLdT2Y3U4MAwtMw3VmW6oSgLJZkgHCHhUWKtiawNnrynFvwUeOIYf97Kd3gnSJ
m9wjMlh3PaOp/28TMtXTmLbBkz9nPQsQWR1J65D0K9tAsAlZIyKp7gi3O2R7zE5VjK5VHScBJN5s7wIKHyQZcvGPUbJ9rZzTGfmG60E7KFoe+DFWfyYFVuplu1v
iMgN8J5dPVz0IO1Ln3SB8I4P7JABwOPDjuvjDgCol0V92iRsUhK/ZmGkhz5nqSMrzbLY+ISXPEtre/f37QU4CixUi9he5xqXYZPVYPdj2i+r2HR8p8yq8VgcHuC
Oe20bjej5bet5RIJhJJfARADg02PDNy4HPnm8YG/OC2wUM40+zHPUrKo95Vex35HphMn8FjztnOKQFlwq4n6Af3GswjmxuSS9hc7UtCS+961P79LxEkekAbNa/d
H9gWukP70XHNfNN7Jlx0yWfzg4+jsDsn3JIg1I4HkFiy2OcRTHAeMzOM9QZgoBJDCdkuj6TPbE76YVKe2+RyukeUX4fj9xPb37Y4qg1tzgz6MluZ5ULVKxsoUto
3wEBjyxaGZVMNxUem3ZhPUsOLrDPYagY1k8RwVld1jnjI18xHOBySHUSKvv7g+HhKKyrL2gW524IbMbMUAL5G7kuafoL1vcyBEs5hhYVeTcEYFHiNywDc5q6Evx
Q5/I63/O3v4snCAQ1JFREw8BAFwO1EWs4KRjCzCXVTRGa664MbL3kpEdaS+s+q6p79wxC051QLk0V/VgZFXaosEHpKGquWGoOTBcPzomtsNUuReMAdSK1DpkOxL
gDnAdzMS+Yu7CpVgWcwBkKrP2c64agTYKyuY7qIssyE3bkn+ZC3ItmGnISzr8wdakWwGc9c1rXouiL1Jr3MhpS+wuIrSyyrDpUVGD/zpQIlJUJFeUQRKFdZvOyL
84d5X2JXVGlSYx8iGi07pZFD3C/gSJPwphJDGcjy1T8yzQAcCYmGTqEFaFXutthrIOXwImYdoEHC9hxSNPcDPn/8F6yCKIwKW03lUVwbNJh32NUVJtpYhlxZgXZ
muTTiBwAYQaMxQ8uvJ0tRVPX7etR0ox531wsV0I6Rh5YSxlxi2cItPmVMgNI2ibU2fu7w/UfeA8lj3Foisk2Pksqri8vr+X8Xnd34MUGymW7XUajq42nbQFsvbD
KJkCZSsTU18AZPnTINfXZ+pBLcIXH/je1xTYnfgcwMho/p0FNcAd3rb3xKsBRPcSGQmWVBkUQ39sEzd+QnPJawwAOVMEXkQ5nTTN9/CoMe6/sJVGeawxe5BzsFK
ZoxyOo3m3SERwSes6fVKdO8UQAo7lQ8TccUkzp9GwMLLpxKl7FExId4kI1+flYDo+ASjGkOlwcRHXd80ZeTaRYOJxEalRyp4SQZS/etB2I3ya3RaBrdztJ77n7u
qtc6Pim48XjxQjVTUtEBmJr9RqGOcM18uizCIFKJvjNRhIQukI+asShY0ximN+8DSGjhUA9lcuwfX4uGFcPT1gVKpaUCOdzr5OOLF2FWyQ6BoodaBVd2xairfJx
Y4q8R0Ss1kZ/abiDetUvqZBLN0Cibe8rPe6DA4zhCuLgpkPSaohhEDi9OPZ0g7a1p3gHK8XAK9eXfHqcqRQyOtjw6dndQaAehZgJahVfH/igSaf1YsUgz621OJj
1KbDWQkcG1Ej9TwftrQZG4K2D5zHBi0G/XRzJ7tH9BcDk+um6Nd6OwuHPcSLvRWS+5sf2x7DQTad0St7i1VuydP8Oe1aYBRXIC7+Dg7ss3GCLVpyvNLaccSshb0
O9HAO56joo2LbZo/uyknamxOrPz0c4KVc0eXScb16xRbF+yvLgiGWOgUQVlxsxer4XC2Y84dDD86VOkZwqjT7NwEHnEsdkWbrTTSqQ1Lt13qBhpMaIulwSwxr6m
dFPxpsCOo+Wfr2hjQjR2+mI/X3Y8XQVFwsIcRbSV94VwXtZX2HKwoLIxSFAFdvbg05+pWzrskZLZFpQMwLtCbYLydq0SRcUxC1VPPRly2GHfF+IDbI9FJunUCmq
YWybe5QPLorGJibZ9lHYtQaXSl2FpzDZfP1oS16f34MPavbZlWArXAFcM+4pN4C6GPF+NaWc26kWOB88Z0RplmHMPH/gIduZOOYTovNXPcd+/uzcIKs3DItZWh/
dJe276Ogjz0J0GvxY73JH65bDl+6bB2v9jOl90lb0aAP+M9RcSsKCy4UU1QAOXdVzUHkJKmGxhpsNm/3o2W7XduG8xfX5vXm6XXifUtrEQC0S89Jc1JDe23vGUX
43GNn+o/rQpDmxVYCNfC0AshjsQrsQHkURmhA1VKd+qVj5MOsMSS5q4RWDpUcqPRwlMnni82MdCkAWZxg0W7fB+73E9iAow18ondpj2kXUUBbb/4UKhDLrhGDeJ
V22SB9ju+0B71WYHcJrdIUJgJFyWowozqpT7qQmKZu6sTnLjHPxt9Du3Ney2U4BCgAriG+uu7HBuf+iU3twC6fnV1s4tPlBB4xNnxuUQR4Jk5QxHC/n0kc5bQsw
A2AYqkj/raFkCqraufpVbXzaJBt4OO7K+5aT3Vq0mpcusp11o7hUucTdxlOCg2cMHX4eI7Jv0IY84wgdXgIryI4tKUiR20jW/lQFL07duMOR9NAqeaRs13j750Y
Yzi6PIc6h9YkxsLNQGQqTmuQRUNEVWxuGHzMnTFud9OX9V7X5dJxBQATVxsn8wCY5OToXy+7D/Hqh8T8DYdBxlnRduep3m9zULtaS6HecVaYUXRvRnuZEaxUEhb
TFhpVTjsEpgR+RFU2CvSQjDhrZDc5ugFut7kW+2JVN51iFw86qsGudabG58xmMnqNv9mGoNFgQjhj/Xni4By+hBET7z6nCeBZOEEzwScPl+yTFDEXe9SS4zGvIa
Ta2UOZgHNJpY0SxYdP5IJPcAGApBE87RohCXTODUZGmgJky5AyeiKmJsHRCrzOB80wDQDYkSJWYcrh1+58Sqg6+4jCiGqP2IXD8dF5rTpsTGlSjnyNIrljZhrEa
t3yBRMwBqkygHVMgwTc0J9Xney7YpkB10fnls4BWA7jOObdU8uSIxqAcEiphuSqQmMUPB5bKB/Jcqz4OdJTGjFJ03PA+uS/0mb9hYz+4BFbtUyPKU9vPGZ3Qrcr
GqlnSLTPM2T3Ywaxt73pLFogjp/vi9toLiAZW2eK8PzWnzPziceeOE6rcWzDVKB+7umwiGHbZtV3BKveTCK9NVzPlgWT6+ndF60NV9AFVXPduB4eN1wu/WZYNRC
SRkFb4ZdZxHBeW1RfHc9bG8Zvqm6xm1LlxXjCYKQI3+GYGsBBbTrCUlyNI/XeAGDHFKY8S/D/SHFYMR2+t90YeEphcScMNRkOrzGmDUNgwRPMVCJS5xtS9ct6r0
tkOj9u1qTGjFEgm+G4OgyybS7ZpiGXRTqXp5zumB4f9pwWt0VXFdtHyz5uNCUB5O8U2lgdo9Hpkr83xDG0sB9nHMDtjxJwoTpEmSywECOW83191sjwud+9OM9vc
age9ZXYhMNREtJbmQsCADYjO0YoSbvhzRfP5XsIpjNN5/j2a/RsnCCAvOiUoPJihfOoWtUYgtRy9+SuuSo7s42t94qrGF6H/Dhb2jS6UYBFeCG+37VhfbLpLa5P
4Go6cRdGeFOJBfm/DgHYA9zC8IDZSkQeY2I3lmz4JJZWwM6CEj2/yQ1kmlHM01+VOT6zYgLiYnNYu2ARpsRMc6hEYeL9mi/rvS5ZNpckPAPJUjBzkQ3Sq1ob0OK
2yoFGGeRHsUzVB6hPJSRMZfLY3LPQZyWFNuplQIdHc6aWdB2YhKDpk+vPiuzyuy0DnKwAGAKFZr9yvo4bMUfFRtYBA3AxL3wc5fY916xm94IK6IibTX1BCq3Spg
U3YzWthSRXPFdMZvvdG9azcIIewd266lXi6hp6gg/deyzlQuXnSTB1QqkTP5mSckYDCdjsKik2W8zGKGj7yMgzFZ77nOpFmgpTTe3zaulRUe9YYQtAehFOZYRlQ
yJa95SEfqhu3tXhiry+0zrWErs0sT33d+H4DGX3NMOW6I/pdg5d4nfK9CHS9Rtj66E3SA7Zy/ogi5SptFtxHcqjt2AlYCkMekHOKuEWt0s9aqR3QMdsEABmAQ/V
HRI35xTb6EgOoAFZnbWzLikp0iasLCkp09Yuk7PHiEwcyvGsaJHfImdVBbjGe9DxMRMpdiPtlsW6GAoGMYiWm7RXriVHamZvseJ2pKZFWi1AziR+R6bzLJxgMud
DJJV6fFReGdVxwW0baFVzlGYSSSlPHikyO0GGVpRyhlqvpGHQ2UkxLN10cTIy1Z8pN07MZcVJIp1w7Ab592xaZxFDnrwOmkZtgcMZ4F0qQ+a1EouKcqS9TCuo3k
sCN5A0gHTAAKgi4inxTJEYLfiQG09LpKoD1C+9w+990e5ajFQ1jXm84ShICTtrwx7qRKo1CfmqAguNvJUCo0eF7EgbpYiBZxeYTQbcB2tMiou0mMfIVcKzcfPks
CKquaz4G39m+twlUtoSbIm1RTVwOQYETGvpSO+GD1gii+EyZgQocJsUOF44BLbbhKaW7pccq8lIeLMZJR4yhzW9YT0TJ+j9ldtm2UO5tpL14fOGVYtvHJHGmgm2
UGM5rttsOTInMkuJ2R7xfIoeMC0W84jSq2uO3R3XLVVnKFNE41qLEwKEVJFjhCyWyIJvuDyQG8qKA5oiK9FjsC3PnzOeSNy78bpT9n7gqVINzhBOA0UaeCp10BE
zCjyr44N0ePyf+MnLeq/LFYtc5UhClqqG4Iepdwu1JtkR4mIDIQhSB0px0Qy/F4AswEExjgqIwyS1qcuwPQRGXLxjpDbnxSrVoVep+jIdRXZmsIJLeISTlqjyQh
tRLNw8zGhOKYkVgUZANOnYgFl1NgF6tM1xxs05N/GbFdQcF2O1KRhyltlJopjKNyN6oM0fk3e0hD4LJwh429D1ccvOjkpMAZM3SJksiTAXQESNMxyv1XDExHv6o
hZRJNONIpakZ8589eP6HAUZxUdqkkulHF4jM73NyA43kuJmSLHIEuob/EeV3qQN1Jlely0GJ22zuueFkkgHeIHVeX71fvigeRoU8ZDgEtqQOXs4Km+kJbCdaD4u
E7R+We99CZxbSjEOYKrBsLq77d17yk1TMIERHoAssIzHlnYF+DGo8lKKwi5I6kt03ft9EX3HKjHng3ij4NbhsEj2RNYKQI7A9Igt/k4sbnVsQY9BUmgsMDybxxy
L3dLslJERiQPyuPwil6FLZp4SexXYbonRwdMPPAd+/uzcYIW0RvAeSDRRhfzO0iCHoPK0XOgkb9mLM5spiFMKR5eX0CSKAsHGsgwCzHAlOa62gaNSLyFmoYCSU
MQscT+zDBxEKbbgE+BEzrFSEtpRASuVYDTizVZvQuKworxsSpn6pVkOltbdubSFFamY84dHgiWPrGahTcmcIcYNKGX9WEWsb0Vd9UYqEUBkBJTB/35ZUb8MqcHJ
ozSSz52fLp7YWOzuVkC4QgVJeQnqVg+ZI7ClMDmcgbIFoosAflkpEhc2SQ343RYMKCXidHRsXFwksWNFN0iN0IJfB9uwrtNB/k0ejO4MPCDt6ZKRI3GbhWmw7HS
Aa6jJ96wPpcYJiI/JCL/mYj8koj8ooj80Xj8e0XkL4jIX4v/f9vymj8mIr8iIr8sIr/v894DcKc1Ag8kVxBATmE7ono2R1ZOTPDpUKWs6g4HllnkcCPzfsapMwi
c1xaKzyUxSQoZKKWrEGAyB8swvTQ6lDkUPYed83vnrhWYHgpc5ir+hqC46KIdCGAWOcJRJe1lcOLXxP2kWXaSEItcjYi0G6YNVOSVfYRT/yJX6btrfVm2nbM4oi
DGVTgPWrkZe0FMlyJKKY4NU1BDlhQ0h2wZIKG9J6tIgQJ2FGiXjDiBKaxgFEJg2kqnx6iNWKBElNUihW6ato+IOlEsCxb52pWmskaUcf7psFjUUMx5IGKZmgs5h
Bf17Ib4ocJTXmZPdJ4RYVpT/9uQ6eTfsL4IO7YD+NfN7J8A8M8A+CMi8qMAfhrAz5vZjwD4+fgd8befAPBjAH4/gH9HRD53qjcvBjX9fPbv6uTYxjY9OgnQlJwi
jlibSwu13SV35g7qBsOBR7ao7BKkntQcDp9xI/bMfMqPj6OkmKn1mSYnNSUc49Nuj0xbjzlfOC9gGJadxf+tBY3FoREbWlMiTpIbjy0iPBprvIaySExNCoAtKnt
Hdcmtr9/IzS/FtoHpvEYvk0kS6SIVjnLzNm/l7GddqC6SY0BoFx8Zow0n9dhwzMKi00yixbFf+dmzlXvRuLADtEsdBWyH5ZN/GYmTS8LfjidsvQYdMToTpZ/QG
DSZb4egdXROapMsdTFYdqmToH5pM10fTN3joXnM+8tbHEvHgXyUCdm+Jb1uVZvZr9mZv91/PwtAL8E4AcA/DiAn4un/RyAPxg//ziAP21mVzP7mwB+BcDv+bz3u
aGkqOD6OAsU7N4gQToFI4GM6FIdOkZuDk6XC9C4BDWAdJcSacDNLF71Hk0a5eXuDEXowH6Hd3KYkasXu3AMN8p0e5HeYhO6fzZMQ3taJas2DYMRp2A6cUaIEQ2Q
G2iBR2ZFL94nRRXGNCoJ3DF3zFMm5vJ0p/4arC/LtlPbMr5jtlkm8Z0Ur6pztEIyEqbtcdPmYCNhBASk48lWymJrkRZ2FoyjZCtmKZq6k3YW4MpiBmaRjGnrTQo
bNvKm9NIw+XiMEleTelp4o/2TPyhwegwr0Cy2wP9mFAEOmo01gxwzmkwBkO4RaAqrrnNI3rC+ra1fRH4XgH8SwF8E8DvN7NcANyYA3xdP+wEAf2d52a/GY0+P9V

Mi8gsi8gvjm59mRNfP6QwZ9Wkw288YuNT7HDHo8vYsPszHa5staDTCIobt0nO8YFkquYy0qJarERnWqtgvPuFOMsKTxBb9xfNir3Mesr935ezZckGyEhf/SJamI
12xkeG75A09Jiph/r7qO2BEgfnZiuXELjtDcHU1ar5HYCdf1/UhbZsbDXl7uohV3IhyhPMbJPTrrfOE+jWkMIZvgCWPW+9j+FDgynl9l75aWyJCKUDdNSq4Tzbl
YtM70E5ZEV6fu2YoNV5jmA44Ij3hBh1pbJKbed+sleM1WGAAQAdYZhToWGAci7/zePrkeO9YX9gJisjHAP4sgH/NzL75rqe+4bHP+GEz+1kz+91m9rvr93yEGoK
SfoRwfktkwgLHOscDQFaR1aKyu6QdiY3FsTQ4gKM7V0uPmmdb6CjiTB0nLMEx9F2a7UEUX5WmKRR5I2clt7NEHNsLzJJ6Byu9AECKQ3bJnVF44fm8Mm+CdRZDRo
n55S6/r5LlBuhZJx7D5zxtQ/qarQ9r2x9P2tLi+JI1sMykdlgncMDiQgVlKZLRWSUmLJj4G+DY37W4EssxMeqUp4LfR+OhOnWMG38xl7unXY032AYQZHvgZp4v/
9lyPtx4FdPRRUSWrXXV8ndZYSFgngMAuZbb45QgTIu308nhr5URc0WW40lfebdvv6hfyAmKyAY3kj9lZv9RPPz3ROT74+/fD+Dvx+O/CuCHlpf/IIC/+67jTwKv
pmABHRYrxowGOcWNu1mtPoiag9AFmJUvQbzGx2WmYxCP6ihcYL1gBK2GjrBUZ/TrKFms2fbuzi84iClFvkZ3wBIhYhqLhOPjbhUVv89QBKJ3k1SYz1AJurjgpE5
nebMjV8cos6DCAg2t4bq0IjFa6GXys75m60PbNq+da+yVm82KWC7tZ51fLeLYdm0joZbZ+ogsvnEzZtaBXdNxpf0c3pOeHL7FPk39HipNAy9eeKPsInqqDsNVMD
fvpx0ZdIS8RxZnKj0cFm2agcHi/GARHRK/ZmR5lHSkM9qM5x8CIa49AGsGDSpPDmV/w/oi1WEB8O8B+CUz+7eXP/05AD8ZP/8kgP94efwnROQiIj8M4EcA/KV3v
kk4PSrgAu5IyJHySq3z9UY6JQ09wQUTjN/b3sGpWhYRIA2L0WV2cch0akwVXBx1gH28bxpApGcJwVOmBnLDHcyUhFLhsetn+spdNytpvCJPdmO2Mhmm8a4Gt+50
uvwMLOC4BWZIx4jbtJwR7tcME/xSbBu4UQVahQ1KsRTItdj0SZLOSYhj2gwQ2UFs7snxBAANyk1ES2kDK8wRnR1yGTeFNw5L8jfw4666hNgmdSfT5JWTxyxofd8
hkNNpMxx5aW0WM6yYq7WPpa/XwlnpTJuT8EzbXCX1Vw6gN6zM42SkHFHiO2z7i/AEfy+APwTgvxORvxKP/ZsA/gSAPyMifxjA3wbwLwOAmf2iiPwZAH8VXn37I2
Y2PnPUdUWKmRc+S/kjsRIWOY6jYdvm4ZIsHY6U6YSGGECpbhypdBGtQxmZhaOTojdVOz8vPzeDKztTTl8xuYM5x3Vd7Mct0SMc5NE0rP4kfV2dElPcKO1jp4EIX
OAgDG4gI8Y0viHAIY4N0rERN1ydLJiaxDn02HGX+Q9fk/XhbRtAdu2owDQw76YY560ohtvYEj1xf1XArOTkNgXcAfD/mCxo13pLU2GkJZhtcL3ctLF5am2ABE/V
CuS+T9yZlWI6mzVj4IbNvysmV9DgLXQ1HF3QYIzZ0PJYOig6ryA6r8oxohLtb5a3gO1eNeaw9WzJ4iC7o8zvcu0tfrI+1wma2X+Bt2fU/9xbXvMzAH7m8469rtp
G6qlxnjBVlTmEiDNNKYjAf1TSoAOkwa26ejQkaZ4aa5G5Q5u4ES2tbyVmmmRkFzhbbQN7pCy9F99+oheURgogv3zHgyifxL9FJHpMDuCNM1si4sQZbfkZmLvhuW
x/jPzWdJdOVTCrwQLY3Zi4It/zaxYJflm2DSCLXgBuKE83qkSrbQPZZyxR6U2MO20DaTMWnRPEH23UaQNpC25jLp5wu+GR8VBjjvD5sN1SV9ipsStyzgeAG/J/R
HWJ/a3RIp/LSFPnc9nGyccs8HkxAZXb6dhY+BNEREnbHo7/abTpyYO4LoBICqy+9dJ8G5fxg625S4aO30Ls3Daf3WHAjRYb8ThOb6vVsMcsBMBTaBKZUwEmnGiP
KVdCcqhMPT7rxWcenDWdjoajZcrOkZ0iMYSGUV44kySxAslR9JMtM+JTgdyNmLAlt7fikMnaf+pYI51IvHGtonHnD6cqr2vwssL4Xw1vd1qrwsQgxW5lk17W+1k
sFCwOTKKYxyHn5IYyKwE8exh9sgsabVsCA+TmldVUOO/zqIuKECb1iXbXlxQamBQuQ8y08XOqlxHdJPCsZM02uPHSfiL6zJnGzWb3Cn/PN4xKceDZVswd4DkLID
IkaS2eUi82z6+Vz4E7Qtt1UmJYLDFkxfozQinLejZtcyBR+rGF8rJzozpq4h8cOpQyW1E44bBzp8uUlCti5FWruuMTwE5JxRZAkmHv4T9TyGkkXqlblGm6H7dWx
b53HEfzOQnUTeOuSMlxnY7TuGsyRE+qS9wo7J3MHRgeadLgw4BMMKO81cmyusxoj6m0iidvdRrmGhn432fq8LLe82I2Et0OFh0Mmi1ykkUyQ3Q2DW7uTpr2ls3Z
Yw4gifkcmgX2inODY+8tz4E/D/E7XzAltRToV7/3WEjEJlCZrZ0zrbaZhWSm4feN9CXyehp8RbSYVeHsOw4nZeKq0IwY40dryELHlIfzz0RqjW2hHAO4pma1xAi
tGLC//fI8i0iQBQUD0gEaJu5GcjNvUeKArhLTcFw3L54wzTTxGa7mUaDaEzn6Jzw6TwW8v7Bdhu+CxbmGlN5fCyy912yzq1XRgkeoQb3BQpi+0ehj1AXM1IW7Iq
kGa0rK6m2myJgXeu3vXAspK7cLSNoAbIkAaKR0pCtZ9WW93xVR/poRmIoXJ9hqGbSqpFNRVv+hoYfqORsGLPBtOkAA06boH3admnz8ezGXqareIldjIBiDjdzkD
y8+pthIs+wvThvJTROxac/3yMotgFnQA+ScEWA+h5Eln14BGcgIj6+XY7HrcJCZMjMFJ0UmXpd4ZBfU12Wm029YzyYSZOTmDgcABCbRMgRkddjTXwALr5DtRkx3
EVGimWSP7BpdAu6w1nGCBi+IWDynNMXoBcfwQTb7pSdew6lf1EB0wQfXH+xHg6kFG9+NlpHslB4qU5aIESB9ZVkMOvEWzLSnKeRaZ9WMNIKVSkM8cq28AYtMUTy
2vga4STde1ntc4Qjmz8wUptw9MwaNIp2FvaQYr8ALVxJ8wEhhySe1UabIaV7XGGiuM92mffWjpZMs+0gBkrXPPnmG4rw8fQx3wR7iLi6TZbFDF3c8U/benR84yI
vvT+fIjEYxhVKT+OzvQ4ywPJYZCcZ9YSG2UG6EVskX9GPanaEc5R8NKS0jITJWqTHA3CbJtFbFQMkCSDZ/x4UtxVK8UqI7REfBOEsOhCmRjpRqQB3Q4e12OV4wU
ooi3m53f39gD4fbR8Hr65bHlGq4uz+St8gK3hguhlBCnMCOICj34gYbYpAJHpOTtcH7d2kw7OcsuKkG3wyPoTE2m5U8fqcLuTsdaqTVAOZjFK58iQQ/yOJIy4zU
2hQ4TYcYf5vdTMAYQAm9TFMfczmuFWUbKG24M3ysMIv25RXiAKZwAHl2o2Q/uRTDfn/mbJ/eK45r86jwKBjiiult8w4rXZybXIsX1gTxXkva/QS7S4krQ6g9u1N
yv2m3BUF4fFAGUM44ZAnHGLQcKxo0m+VNZNnwM5hwPBHBFZT+j4ATBJBS+RCkJFaJUZkjZpSCu1XIOfMzEyfcNp2tRuvfR/EvneTrHmKmI3bgM95vU7StZwufmT
s/RqqtDdTLieNoGL36mM+oXO97j/cS6LXmwHUP4d0RGS8GUwFGbioz/aVSBnAbQXKxqrumytzpVgD76Wv4d/6NEcMisf+y3vOKaCelsHCbGpeAfICZNUhIqLHSO
3qNjV9hW7yelr2ry9eLzU0TYTOHO4GcH3IZiSmykaB37x7ppysQbZeOUd12tQs6GtrWgVFgH5/QhznbJ21nXXR2hGNMYEFdkasAVSbtMb4HqwZZsD4llr2YsO6K
ci2O7a3vH1F06YEd8mvvEhFmOMjtyT20rGfjBKVMx0ecpLCXsnvkxbYiYnMGD9tHtBFte0+crltx46kjZjVYfmE5lFzMh8/0klwlM+A8mn+x1ZKec385fOA1fFQ
iscERxpMzhouhbo4pUsKIDigHJAG3FAOTydFj4UQxAeLVgdEpEgcsyzEEMyrkY7a8lr8LQp4Is3LH1Pplvd9lCLXxuK6x4bAgQYl7n+c7PEIknlUMevWIsexYen
7tVvWFa+0XruZMANpP/K+PznoY0a3C3vhvfPyAIsDRKx4MrnB+VIxheS+WYrDLcK4jCyWs6PL+YWtgbNQJxyg8fTVM3qDACdNMq5c92Nh2p7IUTSLbie8Hhug+i
QjykYUVzCyLhcan39WynokTnBdX4Cnu6uhY7HBHBrDFLgUNVGAFs1ARA2iu6pSUUhwboRSRFOJ/NgdUR0qsV68i10vosxXLCPXoDUP9f3atoAr0LDiPCr3zAklt
A6p8Hz9e2UfOGJaIDtj4zqKFrV8H/REjx5X1Xy1TCz/5me4mt2rlABpSgRcIrIRgN7B0p7w4wfe+DGA3kW+86mT5Ebs9o6FRIOUW5waQ12hEQWS/6xi9oEcRJWd
4mEzh3F49Ctz1NkPgdd41x0DQsfZRYYDrdppj4goAR8E4dujdyF5mvXdiNtiKdtEpw9YUn5lfrUiB0yQ2ByF6TWW9aoxwegAKUK5RMGGdILIfOfy5MEAbfPwnv/
JwgHK68zeBR5FvWc/DCRomDSYqYcUM/WheCSsh+ihTPFVNAmrwKMxi8hyrthYVYo6ztOE7LhU8pGoIKGg6C6YiiJ1QBLDqqh5HqWhRLd5bh4jhqA3HEU57REM8f
BdszSPQUx230cGv2p2U7JqyYfGw71qbugGzqst0mRlQ7OippmuI3dGjQoMlKJ7EaSAY9UjQGPC/3TjTFx/4QVayH4Y7Qtmnwjlj9izU0cbZjllCZZ0Q0RFztn0I
V0Rd0RWFpbIsnADHSJ/OMJSj7fTuEi1TOLhtA7V5ZDhawfHYPHmIZoTxGFHppl4oQcve5LTNhQKWLaKxMSe25/0DWSBhpZcOzgTZYqdx2yR7S+a/dHxBzzH+HUC
5hpNUvzXs7T7weVBkKEIKQXaNqJbPtBBhiQwFCI7g5A5yrKFGerxOrMvqcX3DDS8ehXoFeabMOe4yuH+tDeyto0XqShxw23uqfVA2i1JcqdBhcMwtdin2EWcHAC
kvq5L0OvhmaXxPOsCyY958nviu8rMxhRDkiELJqjNuI8+X9X4Xv9dI6aYaOhKyYNdSaj0ibLw4TITFjtNxxHVLxegF6kCzOUiL4y2znQ5IcQMAeHSp/f3uxOXux
L71xB+3S3f6V9UUUc0ee3V9yhyczk2a57B2tQws0laYWQptl0EIK7wadJoY7g5g8v4iBU7MUTH1AotHgTICd+R3vzrMN6znEQkCk+CsyEHSbRvoR81oEPC0AAbH
CBHtdbQP9UHWQyXpK6u4aqp1VFf0kPUCFsdnpDhOWMR7Od1BurE9vL7g3MZUAi6aA5x0TDFMQzhdYBYvdsptIQsimSLxHFZsD/isWgZTpxxAM1uV5iAm+FWNyDr
xlzXVjWqzmEwH+qQ6/7Le31ojkSQ6N4U9tCyClH04FGOhErSRQYzg71WUTZPixQJHirMyUiKJmQU2EpuvvrnKZQANsNfNn3PnKjXH4+Yze0zA6YotbDvxx17cTD
KQsMhAwm4j07Co5M7NdokOeY4sDvHhLhBIFgTZJWLhwKzhxiGSE0tnJxwKX2TC4cXPT0Ko4W3rmThByY4OpnLsFXZnQ1Jnielvy27ZDKUAOvx1Y3gExtRYgNxFS
/U5HKY2xU4RTk6RuNx4bL4JBVCt6iByaYprd2L23f2BrQ6MSMNLcafpTfGAXn3Q6XbXoQVAVQeUyeuLXd+Wz3wzbYsx+imT7Hqz4/qfE4g28VQ40mUutiQ9JbEa
0+XFNl/WB1gGZwSwW0QY/cd1a4oU6Gf0tHA7BcgeeO3O95NNU+SjNMWN2EFlhC9Bu1o4hNUcy1u7SIa4rVbD+LShfHyiBW8QAKRXWHRcUYYrBYg3SvvXrMZ6i1q
kv8QBmXFwkwYmxLPaYHSRWKA72QY3ym3ESD7kEnEKwlHGbWIh3CDqP2t9u6E/EydoWbBiXogZIViNkiks0qx1Hi+V4A1cDmnCjDq0+GRocXuBuCmgyPni5y3+M
zNjOFwSnXzL17gRZvzrDiiiuwHDmyFqhxAEq5LGGCRAUW9rfwS+wMmJ5BR4Zrm8nlxnjfpBv+noWF9LDA/W46FiAJDh81KGOw7Kmgv6zexTIC7keRjip2soh0AZ
vEioIoUT4jozsw3/RRSiCqxMbvYdG6ifOuHNivGfJ9dfXNl+hp9wlZKzCMxHCHrlY6H4rzkpzbLiXdoBitjkv4zIgy72g2U0/LobeKDJpZFi3UMFXHC2RWF2VK3
3HMS9mtVbqrLsvQhA+bV5Les54EJAoBgcqECH+FcEQ5SJ+ZXiG8AE2Mp6o6OnCujxL664nRdnOx6rxsmFkOsg2H3mEan3ec66FGdB6iebm979/eJsLwswg1m/pp
xTpXrwilzpM7QgNc5CMvnWNPn1BdcS/4Ek5+KHzDye+L8+F0/lSmyd+yUL+s3sQS+AQYezK4oKZhCqMBtSyMwCcZxD6RtEHKhs+GoVDo6OqqAS9Kx8k5foRMLez
qLV3djwBfhnlImvzG1Mbl4v1AvkLqZuMXsAGCV058NApiOkSnt+hlV/DnFIiVeVKKLzSCCIg1MwZdsB5EWc6N/23o2TjDVogOLyD5geLEk2+Uk0oLuOJzGiEKmv
JTUynRxGWGo4UyEvZcEo8VuozBgGhIwJbL4HqTsmOQ8En6GmwvDSnQhlSeMnU5s5f3RKA23kuYWgpASRlbgOmncDRfnmTQYpkNYPg/5hMIUIwxVkWDyy/owS5aU
dU1tyfdLKfyI7uasmTJxYyCzHJAas+K8tBv+A25TTyCdTY5cIHimi5MM+yyFRhxZF4t6PA7fs1iKQuRmXd25kTS96gVmdEYM2hAqMJHehsOUpd9Y+D4ACuXgbr5
gj/yyGBJ/LiSJZ0T45vVM0mEkX4ny+utjgON6Ob81lvdcRmQIZBTn4gpLphhRmxXLSi8dghQk9piT2+h0Anso1TAsyNPmzu3sBeMyvMAiDlRnlTuaUzhw3bbY0W
MmiZXuFUG+DxVcwqAY/gPi6hk0Vqav1ads2R1jfnemttNwMQ112W3ZXUVStTSPICl1Lu/gUr2s73DJFE29yToWCEQ2m/qSjOiY2uZx/D9biwwqM2W2sqSKdvu6v
BEwycZ0uHyN2KLmXHDqNonQS7dLwjQAOPzLN+iIFAect3gUlKOk/a0tbSYGkcURzq8qU+eVP5iagIwa+fxsA41IkGl2fFZdKuJZOHnDehZWz3kKVHfO2R1Apsak
AtRNXcNv2ZUYDdZVzirww9zRyMkjMZkOVpeuDlIAeGimA3FMDRoLez31saI0Rbs7fRZEONbUiSsANr0ZqkRqQ+78KxhOwjJ3VeI2BQtn0P+5A4xFY4goIluQltc
Yu1CAaGq3m5vD6PRf1ntf65B1T4uRnMAUNxgCedUh+5hFMCDa1wJ7i3k4iQuudC9G/+uMXTpUpsVLVTVtid0lUcSwap5RLFxVdrNI1TlAqS/HtLBVRl6A26AhZf
VXebipFxj2zW4R/gNyJsjNdLrizAiJe0IiKCjn7CrRaJMrjCa/gELSs4kEqfoCxPWXBQAGAhtEOiSAaSmA4PiZCcbZ3MlEmWh0x/CsFNSmkbp6mMh0NVV5g8AMI
B6jMemcERu7erYuSbwHeyiZ4iamN5VsbDjZNNOLIbCLTaFKGnPOLcYt9kdMkIKV3C2bOjl2BX8jkhQ61Mvi4AhOswBUF223l/We17SDdcZ1pqKAd3owojnq7UtV
UC7DAwEKj1a/q7OoQpI9oZUVclkXMw86ySXNnGRqc5bBkLAzgX7aprNjKstq7eD8DpmMg2KwuwGrxWWweM5hr58RO1hN8xBYg5P71R20K8MsmYxhdoxIwEwMFCI
F1x1ZgMxU+S3r2ThBRnrC6jCjs5w2F+koU7suM0wPRySL4zT1qNHMSZ3ZhhSgsmR0ZQ7qAn7Bw1jXSCkpCExxLThXBIIj0irNHOuhSsw62SudaAFkno+3JxVgLE
aWO/Zyo3CX5O4d53OjKBM73lrksDprbjS+xAANEMgsqjyLvOC7b91QungxSGniRhQ8PDSdCuSB31IByfvCAbtW5/stSyAp2orNgBMzAvQnzIjIwhYAt7OYZzMfw
yyCCCbXlc6sWeKKqe68ChSQBrb7zBIA2cKWXU2Y6azBbiCbdJBLVdsKbjbqpN3EccwMuiEjQqjNfYbZ1FvWszB7SuZTGis3TzrDp17cZrGCCi4pvhrS43rUpMZo
LzmMqTZNSS3uzv5eJbmAySEMnC613XgR4m82vCF9PE6SKekEOa+ErHpGcV1cVfihuQzSKDefK4FtOkBFOt+b7YyOeokWy2OZfC1zwyMonSMHV4ymYFIRKmb73Mt
6fyvS4CT0MzJnOghMeIR4+Ep+pp0KXBCBG516cZBjKQBA7hfgi060RHob70NxDdsXSIlOOguA8dhRbubS3KiZRzFvVXQWQjh87VMCfmzUHI5E8QN2eliZG/i0S4
/kcsLdjGXmZ4qIOTf5aiin8w3LKe9smQOeUSSoEZmM5YyzybuXTHdXI/An+X+mmDhJj9cKnwy/8MCsFEfEtspu5fHiPf3Y5rNO41DS1P9GGXtWx47iMj/C1DycO
LUEF1wwd8qIaPNC0sjWiV6CaDrH3MnTeJEXHwrXTYtqsjWbbUgJeIfjjBkMFhsOd1hZnezLen8rC1+YtsBNEb5Rpg0uc6r5u1WDlrDXEPQV+tAhUziV78P0mLAR
IyqmyhEp5XvEvQcI5JRUavZBRnHOJ6YzDChHTrm1MWD2B0tkTLwFm+sIomPes6R3FRZKZsubWDiw6ucgLMDEshbR4YgCSDhSxzYBZbTJ73gtMj1Zz8YJ3qSeJcR
PFS5OurmiS5Kb2ccY1V0SoWtcnIGa4ql5+IUDSNnw0Z0XBcCPx11okSnKFCNCamPxggOSuNs1y7Ymii8AuBFCkEoaQEQCdHx8b7EgpWKmvYYbTl9+V4w0l6jOz8
+mzNCKvTAt6Ev6K/hsU/vLer+L0f0azRvckVBAF5gb6hrhtOnI1vGwaBo4c2xuhF1KQDu0I2KATyu6iVvzvcJAaAPhtObf4vEaGQ2HiFWbE+KIK1dEzy9u09Aoa
lhEpjLcMek+2QnZGx/RplXMWSTFoIFr52zieJ4U8486BLYFc6LChVmD/fAuJ/g8zD7SgAR/bTo2gsnKGa0aw2aGRPdIpLKj4Dzcp0t9QoiOSGu766lSrSt4zJ0p
qm85RD1ScQ68zlRAzKO1sTynaSr9ItIfuzrGIxywzYrbmiYE54sCmpnmrpPkChaNQHh6E5/JxLLhPLlQUYGjAeVYwieBXmIy6833st7/Yvq7OiXe+MumjhHwDBk

CdGSM8gAkpYVpM2dtUMW8L9kHixnc5J5mJEBUapeILXh9ObB8wZ/l8UlWs6SvN59zyS7Q9JbQT1sumDhfHEdsOjgw0o1zzE2EBcGFTwgApUe0F99r6cgDiOGzzQ
TLeh5OEIhihbnTKHarDh0Rm+YYy3hRL3PuATmDZUroT4UNpBGxIKGRYtc9+H3BpLchqQYtVWNXlUlKJqbDiwJ4dHWN3kriOWfJIehk46OYpykEkWP3y2HsglvSr
CENMrXbeA6GGZ3WwGXC+U2j8p+TJsCIkBVw3kAcgvP5Y8Rf1ney1kiHd/Za2b2WdHhr9rJGbUYOJykq4QyZvSRdhg6PWQadHyNQOllGTiyU0c6MaeVy/izYrT/z
fQ+ZKs4Xdaxx+ZirY7wpNhJLLAAGZutcOMP1vdeUu5wC6R5BemQJJE8Q/h583Ej9efp5nqznkw4Tbxg+S0EWW8jJWuq4CNVeiGlZF6C4wfSQIh/aQHChbDqH18T
xRG0OcQqnyWZzdq5Q4tx4fivtgL9T6JVGvdmC+YWh3I0s+DCatVI8amQKnjv9cqxqMOodjmlZ9nQmSKQzKaYQUWBiO3wuDR+YqYogBtZgOvWX9UGW9CiQrE3EJr
MQtmYATFd7yTTPRpmMCEaIDTcFAzq83MC3OA5LpUuGkSR8/rzaFEnXdUZitCcn6xd3oBedoRTHzF7rjN4iorSwNwk4JgVPn2QhVuHEZm7YxWCQxP9M3IGmo30S4
TEV5vOz7e7ZO0HuDvzg8IgsK6RiQIhF3kjAx3XKsD8fp3z5Il8FoETKad2rsr0X1HRQodBBYmfQAVaDQwiu+sFsnp8t58NIUSwncaWSMM8tok+ww2NEFLYy4i9z
6PxKaE1DWmk8JKaOJ+cShrtSCRhdrumFYBr5y3rPy+amNDejZSMFZpTIx9bNbFMvToQjqbtiMKsIfE6iH13ihgeQajOJPa73h8rEG7nx8VSCZ0c9wmx9o52P+dx
0rCf8nK+T42hRyS7X4OAuUU2mxUkHQxY1xADdHMYpHT4aQ5AYYkZ8gRn6c5BFGlaboeEsQ636XZb9PJxgePwkky4RG1j1XflOS5EEwBxHGOmExta0KvVCozIsUR
gJBY9MrcVjatNIy0kTYCi9UHeygkesbQWbudaiCeBN9Ls7Nnax9KtMJ90iXyWmshyKu6LvojqHx7whfRUV6P4kpKPhGLJNLmc47BFh90mneVnvcXGjVpmcziFTy
SWd42JLsYlaDEjPNkqV6H83T58jI8ghYiXk9XfcBgsWldxIVdfixk36rHCdSRZJgGXT9C4M22ZHkhxlprQCIOwbYo5LhiNica48lqTTWAguyDoNTywiON/ss3Nr
AKWLp8CCpL+s1WuKrooiZxdrRIOyOu43rOeBCWYov+yMQJb8JTh6T0dsrlQCqlBzGFOlagfThkGxg+AMDgnZKydh102dgGqMSC07Q1j9TWMp8xwnzoYZ3cWQ63S
eXYDTizumcN1BfjZW3JjyEkdUmXMb4li2RLzWdCpM2zwP3fX2qq60An5Ha8Sn4qx+YHIJX9b7W8aUz2Zh5CkZng7rBmsr+XpEq11Witk2yuIcMWVyBqNAYFFMRN
MYryDLhm5zg18qubbZrR0UpJqLXjQzCyuRCgPpoAGE3da0x7VdU+909qoDmdmQqJ0ZinlKzPQXYCoesUqNc139fM04Zn5vjBzXbO0N63lEgoD3RUaKyXGAlKoHk
N0ZOXGrBht9eLo5Fp6VLhgiScwuXDkLJk6IHhF1MVrkRZipK3uF2SJ3o9fGXRlYMBwAm8W84eIpAh1lnGOpPhdFxEeJdh0z5T4xjXKNOANAXuXwM00pjoVkZNxn
CpO9yqTLxC4r15LRBytndveSDn+IJRo47NPNkxXelb9H2yUWogIExmZB0GeLXW6c/iY5pyejR0aX1bwjaYjf8Uy5acv8nWwBDkJascbECC3tSB7Lws9DdryUmEn
sTIsC6SWwOpuFmHPaa35Pw78TRm45dInfF+8/Ph8eIY7LFG4lHlgwMzcx+Nzkt6wvHAmKSBWR/0ZE/pP4/XtF5C+IyF+L/3/b8tw/JiK/IiK/LCK/7wu9QVZdJZ
VeqOrixOMS/zyCK6Fqu+rmSWX0BxczWLo+AGQzOo+hZ73ZIaRpYIJ+vJwvsp4fIy/u6Gu7EI2P+myAR4V3A3LfvX2vAG3rIQJbMKLIU9g4z5vAlmOSqsCWpXgsa
TBMH2I4TWq2rSuMJInT2xIx8ub8GgaCH9yugSknxY15pbgIHNfLrg63qayIkguYG6FMOwGmM7zWmeKSQ7oKkza7Lbws9C5GjjdyU6vTMGQ2ItcCOUpOjUs7EkAu
LtVPGpqlXSr0btpb0mdIaQl2g2bqPCO3tWeYjlPUU2ISq8sJ1EfHE+k0LZ73eX3DwLeXDv9RAL+0/P7TAH7ezH4EwM/H7xCRHwXwEwB+DMDvB/DviMg7/PCTRQf
AnYVEUEZcvXhquTaax27G5nO91qkSQ4dKMmmxSYGJKV89XlfDiQKYFWmLtNwweVnA3CVplGtEuER9iLkRAILmIzivDcfjhtELtvsT+/3phrOIxeZ7MFJY0or5GD
LlSGfIG2AtktABLgUUGnwWTr6+QeAHt+tU7V5vbtKuWHmlw+KIBX/h7WByhd8Phul4GMUxRWZGUiLreWhTsIOOdMkY0vnJTNsZrd0U27iBkvISPL01erXXDXqt6
A/Neb2botx3yGUJ3zA34vU81k4T3b0PmH+vj7MLCoDfz6TAlKDDFKAcEvjh8mZB5v5Nk6VF5AcB/AsA/t3l4R8H8HPx888B+IPL43/azK5m9jcB/AqA3/P5b2K3
xQU6nSQqL46wuEOxo06jADK8l+bUl1INhY3mpKtUm7OAq6WKjIajLWEsmY6zu4OpBvXKVmcNzLSDToy4JeBtd0dN0rUUYLt03L06sO89VajRxSt51JXjICju2sS
PNHZYVvDYKkdnuZ4XeKMAcvXXCY8hy9+/nlHgh7dr4HaDkeX/jMTd9iWk04QUkzGj/fX1XgiB2+laMGQBpcQm/qT6K5vONJgVWT4/dfgm8f5GIZpOp0bfcQw5l8
C7V7GGet+x3Z/YLn1OyYO/5xT+9fcr3TcAY2SYFXNLR2nVMC4GjeHtVm1GloZ04IwYy7GoUPM7e4en+6KY4J8E8G8A+Mby2O80s18DADP7NRH5vnj8BwD8l8vzf
jUee/eiExCPiLzrY9nZaDzVnFx6UaSsFB9X8VQ09NbYZM5uDCo8t7sOZVdH7IJ6+uD2UhRawsFuOvl+dESJ10WE2hZjY+QGzPSSPZwGH3IDYBSDXTzd1uQjGurH
pxdwHtpMvblzr8a83hi2RHNLWktKRu66FdD7+B7ie14ltD5zs3091p/Eh7ZrhDMDgI7JcVuvmQkAS6eYrY4B7eR1BGC4dSo37AXAx7tiyV4A2LWgvOqwoEJl9MY
Vm/zcSDFtgSmyLoRqIKMyOSWw54h0VTAeGyyGlGXEdxmwJpDH6ufB8zZMMr9MG8wKcNz7C6UxO0MkukJkzHO2hsmaMP++b2S43rA+NxIUkX8RwN83s//q857Ll7
zhsc/cXSLyUyLyCyLyC+Nbn8aD5k6NpFIWK7h4QUgBWSMvW34P50YlGIvB1noWjIeacvjrGZfmIz/zm87iClItOh3RDa0FMzXV5Wc+b1XwIAbS3dH5VDzFftdxu
ZzYYvi1XMbt52Kqy82aBqwyDZPcqGo3VJfEWLqgXMuNs7upAi432tdhfSi7jmNP2/7kE8emDknMNp+3VEMxlr8nzj2jK1dZCcd5RqdIVkLDzs6SyjK5CdOxBp5+
c8ZsCmDBgik5FscEBO0kMEAOTbpSK9ALNsxGZHg2o1cv19ZXHdurE+0yXBdxV89gDEAFxitNZ2f5mZ0rmHQa3juCm8cslNEt6GzZPUJMkmKtTzKjp+uLRIK/F8C
/JCJ/AMAdgO8Rkf8AwN8Tke+P3fL7Afz9eP6vAvih5fU/CODvPj2omf0sgJ8FgMsP/6DdTFDb5o37GSdHQQOFfytrSsGG9CEwFNSt+9OY/u0+ghCGmCXs36ZUzo
DwELvtA/1ww2FVGpB00CmgQJC5ICkNqeTBc2MajTj/jtRj49hEkQHVin7WfMyJ2WVSD/bl++HnVfYFW+yIt21QeeFJa4jdUhDfaxfYRW86Ar5G64PYNfDEtv/xH
zTbZtq6pqDJIVxpHUBe8xwiznSVUb5h0rhOH+NqzFqWDCGrvgbX39wUuKi34K2FmXOxVcCdGm2kRdso5jnYbpATeU/mJmxASrWhQJqLwaqQHjaPSR6t6AwSWMjQ
huwsyWpvx203CN9rhIK0AWsMwylzVuA6g+8w7c+NBM3sj5nZD5rZ74IDw/9vM/s/APhzAH4ynvaTAP7j+PnPAfgJEbmIyA8D+BEAf+nz3sfP3G6AV36pN16cLUb
0B3z+WW4wAgwnlpZN3aEsBGIzQaljCheEQZj6zGKzeJ3FDkrHlHQEmzhhiEvaHn2TNL7Via9V32KzivdYoY8V52NDPypqVeyvThd6YI+xBI5SMCPTq+/6K98qDR
HIua83vcA1/jEyIOwwJLsAvk5SWl+qXceS5TrN+RmYqSwfe/ozHQKZC8TOAp/LNkp41lLawpwgqyCiPqk6IaSbjhXMe2pxynLI1LjkY8xKotDjmB4/i/+Tw8VE9
HXzWd8Gh6MCl5xY5u39rC3eswApsrAGEsrIFPndWTNom2TpCTf4+ZUznv+W9ZvhCf4JAH9GRP4wgL8N4F8GADP7RRH5MwD+Kjzu+SNmb+ptWBYvKh0YPzBvfIsb
tSIcUURijAqJMQCY3+ak0qzHtlFCpzBmhsSi+IG32wVvkEaUztXS+IQ75Bpql8W4CEzzd25VxHsUGRFaAcrW/YIapkDsPnwPuEbF0Bx/AdMmfifLRpEGWnGrGB1
RR+q+sWrGCt+wL7Alfi3W+7NrAOzWSMqJBT5oSPoL6m2vd/LueD8wYoyoUcbsNJJruYFHnNJVPivmQYL06nR78BflFhqxPWxhICqv8Xzeh1EZthKvU4/GUhKfLa
NxX8uu3i0FOBav1SNSiZQ6bvESrXHllGydg4RjXKrAAN5qq5kCF/h9mmoybw8Fvy0naGb/OYD/PH7+hwD+ubc872cA/MwXPjAvNAmZdDbZvoaM7lKggK+DvwRHi
UpyfKPRWmcGdyZHncIGBsfjNkURQ7+23NmyQCIGLaHLZsv5RFqa8x5W7tZaZdXl3PgY0xWJk2eEqIgoNCg+fcqGTZoLjcXmzfPEsa07MYCb7y77UOPms2Vnt01v
MKCv2/pgdr2sOdvZJsleMDE2CpQCIMif1BW5nQEj0SCAi8HuvPXM6OTCQZa7HsXBmtmJPTTgvrtt8cSCOmXBI5Sz3Ejme+fGEpSYzB7esHkx/xxWvfBYHgUqBoQ
QsKlgsK+YBZvFtm+gG2AWj8WdYn2Q1BIsHYkRlj7tmPNGJHqJb5kb9l6qw1/OogMr8QmY+tKRMBpjRJjpIG5FFAgAn4BckPOGUxb/LJDqPTkW7+vDsP15/aho+w
gRVJvvS0e8po089ppa0NENBLYX59qBm6bgRSNOP23AriibYrtzopNq6CUGjScLK4z8CAQvkaFP44poj8YsBNVlpryMRJbT+TrSZD74Eqdz3GwydIDE06J6LxZFh
ic8unks/2eIiDE22hRnYGHi4z55ss1SSdy5g8GW2BWmZfLv0vMg7zc5SqaXAJytAbiCeTgu283Ht55uf+7sMfmFFZDfaM5M2NTFHuJcTQUmxV930FbhY3CZ1hYE
bIMb7iAAV5QGZlQYzjk5gYmZf7h0+P2up6oWJsgO6qfRID90XRwkw3DyCXnh4nhSwpFEaw+l+DXoKTYAqcjoy2cX25Q+7wVQu3WA2YuJG/JyOitgOjpgOnLSatb
HuwDXCiuGrnUKsG5LarQ6Wu6UjBCjTS4J0UHNcMGIuLlWyCE+8w1O+A7hyZf1m1i8XmVGeElFqeaipiU2XPimxSgqqSvsIFlHSLL7JGAbbnApLcfFQEJjI6ZUfx
MYZatwmxIzu8kxXdxEWZ0OnHKd4WHNfLSFhvILIZdwclYdogKJ4tnLjrBR/1zjYiGKGrdMZPPluL3HbXF+ouv7SRKpp/Dr23f454MCrXp6wGwaZ8vY6nC4a62YG
18b2BlbgjjIiC08EyQGtLt4QookMKUAbvDCfK+FsjCjUkasyOh0VX7+jEbf+hj/727ABJNdN9FQXnVv5SOAHo4ugV8gG9RXRn2CzuxAiRsJC38qm/FX/PXFB36Q
VR7LxPzYM0s7BiZlJDYnAClWKiqzCkr2A4MCbnK8d1bopE9NwRtO4JBUb09mw8L9y2JNfXJPRJCRQqVUI5L5ulXd3IUOzKO8EWKoj2VCR6v6DGb6m4vFRZ3E56R
/RfdNzg+Je/MppmoRARYKv77t+nw7F/ODLkVWWvMCsP+WBQrgNtfnzb5Wr7gDxMpgch1RaO4ciY3o6UDyOm+EGGEq9nI6l2EWcnI3xoxUyxOVlmW3ullin6ElJA
cqHJOerlZtLLTw9GP4exoF94AhEz/K1Gt+5tV5ZlqcG8fyvb6s97dMkiDNGRyZ8gYeXK4lI73ZMbU4yxhDmc7yhpLiWG+25gmmRBd5tk+zCI3ggBspic9Mp3muf
D4wsysWK4HZz0y7iWIcTas8OoNBd0tNxJyyt2zEbEddq+XpWJ/YpfHcxKakHCPKgtlZsmw02nB7Tz5Zz8cJcrEvNnaMdEIMg+koeVH42UhUXgUNeByBFziyMivp
lIw7DndFQTrE7ChZ/0XL2mf0A5fZxbMwwccWpwO4c11I1KkEk7vfG94325r8PSRwmJzJEH+70QQktaIsKUJG0stzefO9fbN8Wd/pkgVXXjcpIO3HYthQjkwFFi4
swOKX6G1klFFRdHo83fwspbbKzUbp742ZDRC/s+kQs6MlIr3MyjDt5jP6kyt1R5DOn45Xxoxo67eqE65DkIHZjAyEOMK85RMbFNxghcT5SMtNLcHAJbnK+e5L9D
ycYIbf01gSPKUDSCK1hoxPvd1JuOvxtRlDTyUYqbp0gkgqykjVdKx2lNw9veXOUO76dKh0oEyHGdG9qduCuzBxiaQyICuynM8gXfJmkWudnSbs92TfZlSYaax6p
w5OM52iMZ1ujHJEW9O2pCuyfMcjPsvaffOy3uuisyCfL/l+vGYASGYHMPtr8wDL89rMNKZatf9vwZwQlWk/sQFyw0whh9zQJ7k+7YPOl9Pe4nySsLx2bfCcE29m
ys/KMpymEp9DTr+f9WI5k8Q2TR6kR23u5EzgUd2bvgcgCjDLz7m5+Hdrq03/I1EdLpi9w8CM9FYsjo5m19uBNFy6vB6YYTciLdZya3grfyjK/yjOAeRrxDCZ7qu
zZXHDcDMa0V+I+fclGvX3mRcmbwZgYkHEdxR+oqTBL04OkIVygbmrl+VmUGR3CNOv3JkNE1/kjsmU/mW997WOPV1HpGb1vsV1arpIbvHFyFnAWfkP5+WzO8JuaH
83N/4S1ZE/l05XbuEkXXp1g/9n3OBjJog2pBxXYn6Cm7khNwRvdncoEkuk0rMJQgNzSmIxqIh+FVeThmUKnCrVkbbLiegNdudOgQVipvn98rO/ZT2PSNAwW9CSv
ybz5zYZ8blkec6q7CLL30KVA73cjrXke0YRRVf5ouAAOngsydnLaInvzfdr8/0zHVmJ0uQmCmbLHdPhpYrNggpvmOQCJvnUZrEoIkshETcM9Qb7McyUm5933VQJ
IC+/vws8flm/iWVI7HZSrpDRylq0smWzJ3WFVVAWSRKbHuLdQyYh3Y+0M2EGRZvkpkc7l+V/ngfNIfb6dN4pUR+RZvw90/mwdzpbCf4sU1b2Hq9paUadPNbivLM
SvBY+IrIEMDOhsHfdb7tF0tkv5lzeoZr+PCJBfgkrHkJ5HjoZEqe5kkMoSwq8HtOcJsBSP+kELDII/D2aEzzRLCdipbMIB5bD2BcwOyvUajN1T70z/8cdEgCSWM
1lHvWRFsF0YhUxSLCbkeiC4VhQKsScumNikCKABaAMP7e8kRgFhkHmzaeAFJmVwZf1fpdgVnP5UPJWMWktLE4EqT2fZ0B6HVsiefNBRHqHzH5yU7tYtLuFI1kbD
LCcS5kOckprSZL61+4iDfspJ24cjnSPECXvB3ikFuSacrry85qByXKb8Hcbkr3DCSEtz9egcslYX8jv039eccKbS8BI9C3reUSC3FVYEeMw6mw2t5mOliffIMUi
V7L0Wuy402lIpMgAmWbbmoKboFyGp8O0mVDlEL7HU7K0LkWOhaSZlVj2MC6pa3YC1EUwE3EjRFsSlT34/axRmhdFSlYYC5V+60LDWKZuZXRqQImKu9iMEqgG8hI
JfoC1bobx81OKU6aV3AgZYTW74XFmlBPZwQhptMTCo7iW77duvMVgd+OGlvIZpoMgor15nsB0rjLcGVrxc/P0FCliyk6OVHYB3HkuEWZZWk0Tp+7+vitpW4MgTR
pMjcjQN3DM+0eRTpjOMLF2+PuVU945ROx5OEFeDOAG2wIwozd+kVSaXsHd3BGebDWsrK67FOA3f6hLuyMsKb1FHUIUc3Z7nJtFSp2tefxSW1AXmLKu587zj/8z5
dSZ6gC3N0l2f9A5hQNfRzYaNQ4jLV6jiKTMkIrB38P4bnDBUPO4Sbde1vtfiiQiP80WgGVTJL1qTecyfbU5NiFxc8xCGJsEgKkixGOPxQYA5JgGHoM2lrYnU7k5
OH7kBiZuzlQ2ihnSZ3S49vgm/y8e1/V9ldiif4ZylWzHE/OiSNpkRInEB+VccHHyAiOLS0oOo+zPMevn4wRvorh4nLsWHSGpMakyI4kLABPDkOtSXWPkxtF+Qzw
9IKE5niNtcW40ppULOLwP+eZ1fI8Vx+QiwXUsnye5hIuDo2MikFuWGwVxjF4m3sjK16rcsX5/QseoeXVvKA0rbsL3eHum8LLewxLSqla7WRwg5bUygpHlWmF5bp
8E6pXTh0HbX17L/wkl4cn763QkN+fCaJDYJdxJ0dEI52PzOGRVRIpMagv/LnROcXw6PQCzDxgAFNCLZTpsee8jix5WAL34vBLdOQbAz0dj2FKqzqxGLe92hM/DC
QLziwemw2PVc3U24UQcu1h4BUz5VEIF40lEBszUGvO5Eu1pJCgnznhzHjIdZLUbo8GQOfqQr4Gnm5nS8jyKOzxW3XKgtS1RLG+GtaI85vvxuOlgmfIsmIeQQsSd
mdw0OkCmXIr8zsXebSgv6ztfuT/xmtpy7VcsODOWZdPiMQKiSRAbNcHkieaTIr3OogEmhENYBHAHeciTTTGcMTmBBZ85drbNLQU9WY6pWyg7V7ulriwbd75/n2n
t2vmRQ5WWdHwtakgXlMPx0Pk9IarZi9ON41pAQvV4+/V5Pk5wufhZRaVAaRrL4hD5WFbL5ObifKZIwl2L0WTgeMnCj5YkEZtFGWDhLy6OmWF2mc4oRQu4M/Jcwg
DWsJ7ntxY9bmYKL8WX1Rj4t5VmMV8bPze90aS7eW9GCl3m2MPl639ZH2I5LQTd2yI5RwQxXpJUl5tofqn+AkgnyTRwsiEwN1k6s2pOQE6JtDj22ns8xOGSBRq5w
YPDga68OxKYdQunRMfNTVu9osuq8TrYiAWPpMbEXBHHAv35M2uJt+Q8kc0w7oP+Es4ZiHOIeyydKAOKBXdnkeVdIzefR3WYyxA0GSwOT2bFNm50wHLQS0aEa7r8

1FlCZqQocMGEplPWh/hFd9UWN571/WIRk1GbTpn43vIZhDOUxR0QK7mpBUd8B3EBlyiUwpu6a3L72A2wqhPfVHjjMxi1E3kzpIoM5o217NwE0pOisHyMl/X+Fsn
sKz7GOdHEsZyYrDM642bazHuP99tCGdkITrKP+z0oZrbppG1FpsKIKB8jdYvnGEWKFRekU7HNmRPS52NrsCE9Ulm266nAGmY0qsFRNcxKrnjRIvl9CCfJtHp5Pz
8+brDvlNLSPI1bLJVBATHU9zF3+EtZy0i9m2ltWTaPx3jWpKysN+/TXbXevobT5eaui8lDNEDYI0wOICO0pyX2yp1KZ04QIf/aHbKqWfhHi92XDi0rYkgyaA5OJ
+7H4zyN1iTSny1UrUlpYAWSFcnEIj3CZASgF50p0FNn/rLez1ojulWxp07n6LDMhDfSZuLGpXhpiefUhxIOw8KZYN4Da3FL4j2ACZvQQbRZhFk5okmLiaiNBOq1
R90abgZ9Abjh/UHMU9ZzCirkcxcHmBqBx6TH0Kl7r7Tl++e5ct5waAZKx22qj/heol20cMjSO0xbyDj/KpeIfAvAL3/V5/GW9dsB/IOv+iTesj7Euf3jZvY73vM
xv7brxba/o/WhzuuNtv1c0uFfNrPf/VWfxJuWiPzCy7m9rN/EerHtb3N92ef1vNLhl/WyXtbL+pLXixN8WS/rZX2t13Nxgj/7VZ/AO9bLub2s38x6ztfouZ7bl3
pez6Iw8rJe1st6WV/Vei6R4Mt6WS/rZX0l68UJvqyX9bK+1usrd4Ii8vtF5JdF5FdE5Ke/5Pf+IRH5z0Tkl0TkF0Xkj8bj3ysif0FE/lr8/9uW1/yxONdfFpHf9
yWcYxWR/0ZE/pPndm4v6+3rq7TreP9nbdvPyq7N7Cv7B+fE/3UA/3MAO4D/FsCPfonv//0A/pfx8zcA/PcAfhTAvwXgp+Pxnwbwf42ffzTO8QLgh+Pc6wc+x/8L
gP8QwH8Svz+bc3v599Zr9pXadZzDs7bt52TXX3Uk+HsA/IqZ/Q0zOwD8aQA//mW9uZn9mpn91/HztwD8EoAfiHP4uXjazwH4g/HzjwP402Z2NbO/CeBX4jN8kCU
iPwjgXwDw7y4PP4tze1nvXF+pXQPP27afm11/1U7wBwD8neX3X43HvvQlIr8LwD8J4C8C+J1m9muAGxOA74unfdnn+ycB/Bu4Uf97Nuf2st6+ntW1eIa2/SfxjO
z6q3aCTyUBgK9Ay0REPgbwZwH8a2b2zXc99Q2PfZDzFZF/EcDfN7P/6ou+5A2PvfCfvpr1bK7Fc7Pt52jXX3Xv8K8C+KHl9x8E8He/zBMQkQ1uJH/KzP6jePjvi
cj3m9mvicj3A/j78fiXeb6/F8C/JCJ/AMAdgO8Rkf/gmZzby3r3ehbX4pna9vOz6y8TrH0DONoA/A044EkA+ce+xPcXAP8PAH/yyeP/N9yCtP9W/PxjuAVp/wa+
hOIDgH8WE0B+Vuf28u+N1+srtes4h2dv28/Frp+DwfwBeOXqrwP441/ye/+v4KH1/wfAX4l/fwDAPwbg5wH8tfj/e5fX/PE4118G8L/5ks5zNZZndW4v/956zb4
yu473f/a2/Vzs+qVt7mW9rJf1tV4frDDyVZNFX9bL+hDrxa6/+9YHiQRFpMJTgX8eDmz+ZQD/ipn91ff+Zi/rZX1J68WuvzvXh4oEv3Ky6Mt6WR9gvdj1d+H6UB
SZNxEc/+n1CSLyUwB+CgDuXsk/9X0//BG6VXQrUAhKUIG6FRQxmEnMI/K/GQSas14knuM/c9kyR9KWx4TDi+AD1WWdBWNAEYOawCCQhZIk4n9fl3HU13p82M3EK
yzn+TaK03qub/w75tuoys05f/ZY8+fPnvN6DjzIfMLxN//uP7CXGSNvW59r18CtbV9eyT/1O374Ywwr6FahYX8Ct20JWwYANUEV89lLNh9b7b+Ipd1y8fU3tmy3
lraai8ZvfO+b/+P81OTmNYZ577hNzXtj/RvwdlvmufI5Tot+VzL6pnvuTY99kfX413/tjbb9oZzg5xIczexnEeKJP/S/+C32f/p//bP4h+dHuKqfksbY+q0MXIc
/9unY0bXE3/0tWlG87jsAoGuBmWCrA+eoqEXztd+6XvDRfsBM/HlxHq+2E7/+cI+hgo8vRx67a4GIoYjhHD72a6/DRxT3hqGC69lw2TpEDH1UjDi3rQ6UojhHhY
UR1/gdAMYoGKOgtQGN19SqMPO/AUDvFaU4oV5HDeMz1KZxDIFqQa3qRqv+uw2ZRmiAFIP24lP2eoEUgz1WYFPIpijVoMuA+b/1f/w3/9a3daW/XusLEXdX2/6BH
/ut9of+w/81/n/Hxzi0YYSjA4ACw2kFXSs+6Rd0LWhFb471zesdLrXn791KOsbH3tyZhq36e/sp1qKoYng4Nxy94uO7KwBgaMHRK1pV9DETwVYVQwU97pszbK6K
4ej1xk5VJe23VsV5NqhK2LBgxLxwOr1S3D7puESmnXNeOG1dBND4m2HeF6o+IdLCpvlajWl2talfiHiscF44r4kK/of//R9/o21/KCf4bREchwm+2e/QrWITxcP
YcFrBpQw8jA0FBoWgiaIUw6E1d9UiJ+7qCQB4xIauJXfbu3qiiKFrwW9/9SlOrRFhNmx14FvXCx7ODZfWcYyKUz3qvGsd1v2rGVrSWMwEfbgR1aqoVfPxoQW1KN
QEwwTnueXvJoaH656OrBQvzZ9nRWthOPEepRjGKGkUgO+aUhSqBePaUDiuUwVWANMwOsBHfY64GUxgQ1CaQgowOny28Su/qaR49JzjTF+IAp+3vm3irkLw6+crq
BU0UVzHjiNsOaM9CPbS0USgVvA4GswEl9bxajtQxPDQt7SxVhRbGfn6S+s4R8VWB669oRXFt647tqpodUANeDg21OKbMYC06RH3CwCco/oGXUpEawIpbp9m7pB6
L1AVtOb26P9mFKixmdJpwgSy9fwZYuhHRakedWoX1M3QjxZ2DuTscHjEZ3FfjiGwGKlr6j9LNdgQjIuLrwnlfcFfO7xO2z7Q2GCfxnAj4jID4vIDuAnAPy5tz1
ZrWCgoMBw1YYihkMbfuO8wzDBR+2Kj+qBIooihlftwKt24Hu2x7yA3zruAACv2oEWhvI43Cm+Pnd88+p///R0Z3TtDXet49I6tjrw2+4e8Go7USP6q5ESAL5L7m
3khd7byN0ccCd12dwRrw7N0wTfxRitIR5rbWDbBswELY5NB1mKG0EpczcdvQImqG3kbisSKYYYLKJgge+KdGxlUzcWMbS7nucry9xYqRY752/iin891rdl14BnF
QpBEcVVq9v2qPjkvEAh+K37Az6qB/Yy0Iriirp34eLvivp2+oWrBJ8cFTfxvTfwmP9Uzj0+PHY+9QU1wjpqb/t3WMbTgejbsbeCy9XSgtdhNxAjMaFIia1F1R9iH
ZxvcnD3is3SMzF5Grx7thY0zSGhbz/dKm4vxxBBDaQY96o0D1F5yqLpGNqVa4u/IY7j9hy0Xc8c4ZjZkwzMfqTrf+w3rg0SCZtZF5F8F8J/CZYX+fTP7xbc+H0C
FoqPiYWzoVvDN4w539cQhDf/j8RG+Z3sEAFyK38hbPdDKAHCHbgUfbVc8jg2PY8OrduB136EmeOwekW1hHMMELaK1+3biOhq6FjycG37r3UMaEfGZUhSnFlzqwL
eunnZfto5zFBS4g2uRBtSiGUxt1VNd7kwiArMaxiOQiGpFNB8b49YLrWnB6gxLcYMRMTe+IXmR3eAmTjkeK+p9z7QBQBoqjcTUX2/jxQu+a327dg0g8e3Tatrkt
05PcY9R8Q+uH+Eb7YpDK+5qRxFFk4LSDjyODYc01KJ46BvOUfE9l0ccfUMrimGCV5s7y2NUtKJpv3sdsTkPAMBGaCXsdKik3Yp0zzJMsDd/vkM1vhG3QsiF2Uo4
zu7R17b5e/Ve0pZbbNZm7hjdkQWWbcio0CyiN0HYMdC2gdELtIcji79LcSedTpWbPQJjDKhIDD7QvriD/bz1wXqHzezPA/jzX+S5wwq+2e8T73jd99wZH/uGx9H
w68c99nCArSj2MvAb5x1etQOPZ0O3ilMrPgrj+eS44L6diadcR8OldpTNI7y75ljeXTvx2DdsdWDE+x+j4uHY0MKBFTGcWvCNy4HrqDji4jPC68Mvvj/f8ZQzjL
IxndCC+8uBozfUMhI/nAZVUKs73VIM10h7VWXiJjKBa5GZgtQWO7MinR+dWtkHbAi0x/tt6jsljYsGVRUoL07w89a3Y9eA2/avn/dZ4PvW4Q6wiOFxbDjPit+43
gMAvgXgvp3Ya8frfo+Pt+vNsb7n8oih5RajNoGapFMEgLvmNv9qO/HYW8IygEd8r48NVQyPp6fOextAVZyjpDMUMdQaKW4EBFIUj9cN++52ebefOEdNZ2kmsDKW
op2hB3Qk8I27VsNxbZnylnBsqgXSPGtR8zQXAkgd7szOSFoFKJnySjwnMNZimQaXfcyUWt9dePyqBRQAuBe/quOBALCXjq4VXQu6lYzs9uKpc5GBQysObXi8bgA
wiyd9x1Z8Nzu04rfsj3iIaBDwQsuwgq4Fp1Zcaseldnx6elqxLQWN6+kGVIvhHAXYOo5esbeB1xEVaoDZnjL32GndMbJgYlgiQzEcZ0s8kcAzlxdNkEbFCyvFHZ
an1BOEBiLzLQqUpaoYRRAIYCN24EivmZZLtSwpSjXo4+fvmi/r21sF5g4QjmVv1W2T12krA6fWG4zvGC0jPwB46BuKGF6fe2zWns1sdWQxRQNDZFoMOFZI5zgCV
7ueDb1XHOG40IB+BD44Ci5bRz8n7gy47TIgYCV4jIJDGkbYOTG3mS6zgnyb0ahGcYWRYPzdhgcKzEwI08CmLYvAo8MemGU12FEcB4/joRcgIkAbAmmeCtvxduTv
q5bSAuBf1q8fr3BGRbhrxeNo+PS8JD5YxPC673gcDd8M/O+unthLx1090bXgG9sjtjJQxDK1/bTvUPju8tC3m52ziacZ19FwhOP79NjC+Sju9zMivHCqveF6OkD
d6sDHd1fcbT3SZweZ/d8SpUUkeLDQEkbD/8/h6e1l79i3jlLMsZSm2LaBfe9o20Brito0/14ylfGCiMbnKqw8NoVUC0wkMJNIMUQ8lbBIX0pzHKbs40u+8t/9yy
D49atHgoBfp29e7/DJcQHg2B7gju7Uil+/3kMh+MZ2hYhhqwMPp2cql+q2dtc6Ti3JhuC1H1pwBC7I6rGzGfw9Xh8bhnkE941XV5gJ7jZ3lAK/D89R0drAq8uRd
goAQ+Vms25NcZ5RjIhUePQCHXzMn1fbwH450TZnTGybR3atDVwup2PYVVE3t9fSnAEh1Z2eMADM/8Phxj0mW2QzhHIkNn4NxoOJY47tS8YEv5PF6O/QmjymbgXo
DQrH745RMaxgGPAPHz8CgIz6PtoOHEGvuY6Gj9qBS+345Ljg4/2Kj9qB3zju8Mm54+PtwCfnjr26w1TgZoce6tgIK2dHr9iqJs5Si2Kvvou1OnAfOywrdDTOIoa
TGB65V+Gkxih4fPQotjXFgOMwrU1HdJ4NJfAYAtGsEnP3UvNUtzZ3jBqVZY2dXy2ixiJQcYe4YoA2ChDV4xdM8MMtd1S+SW7Vo75TK6694dV2oKOkvX3ruOAYFX
etY1jB996/xqEOrwwt+J7LI4DdnVg7Mazg2hs+PXbcbydOLahR3BsmKDKjsrU6XKtmtnOJCi4LKIwct63fpLwAcJ41MhWgnxXbPtPmUgf6WTOQQJmw0eUyIgspX
um1Ou1ZDCUwPY1IUIckFgjxlLi0pdhXFr5g8ddb8ddYd7uG2DsdIPCMnGDXilfNeXolqrfAJEs7haXmjT3ii2XhY1hBjSLDOSo+xY6C2En7hrIZ7ptXcEUM39gd
b3nsG04teLV5NCkArtZwPVsAyx3X08+FBsTKsMAB5z7qxFyGc6pYJGFVzatl7uBuCh0REZZiOM+G+8sx+Y5bxxgFvZfEN/j9kIpQxFC2kdU8Vo/LAmTT+ZLgKlE
3qftAP935nkdLbOVlvd/FgkURxX078RvHndNRwuldR8ufifsCwDcf77C3ji02wjPsjFFk14JvHRd8vB0ZJGx1JGXmGu+xt54O8PXhGy+ziONseHXnUeHeBmpRp4
AVt/2HY1u4q55FmHqgUKpCze3biyMRFZ6SxQ0AGVEmfGOTOwj48d7EdeRrLQoqZYvCByKVVvjNNAQIPJEptBk+1/nl9fnOL+37WwrB42go5wV3EfLft9NTWRO8P
rcEga8LBqJBer6OihqpQ+H/sKz8bnXgf3q89zQiDIMEZjXBRj5f4CyMCo9R8Rg7pZngMZzhg7akyRyjeqWtKDqjL7EAkHvsoH7xjh6RHZDYDlMeksAfrjtKgNVH
d97W6gCTmU+8xYIPqMDQigGnyGg8ViJiLQuGKIHF+AGjykcM5mW910UnB3i28zga7tt5Q9rPjCOc2BmwChDE/KIZnXEjvo6KPipaHfgfH17ho/3A9WwJ1QC+WdY
g+NMR1zvN93s4NmybV4Z7VI372HAJeg2A2KA1uKsWPMGC/XL65hzrPGtSaS53Z2YuzII8GAgcdItNtzi7Ibl/Np2iBM5n6iwGjaqfkN6j4txWAeSmCLI40IUGZu
PtyN+zcIKMXA5tyZhXCLYy8M3r3U3aSswLAO63Ew+ng8a8yAAyLd2q72yPfXaNzFSkYJy+K2514BqYIDBblWpRbNGRcXQ3ur05+fSmmBGGV8KwW1HI5UyHtdJfL
rvefAZSGpg+nEeDbJOln6z7cGI6wvlpSYeqAEqNVDk+R60K1NgRA8gm6Xr0esPaT8N5RwXtZX1ni1f6Ohr20jOT2erAp8eeDgtAbspFDFvr+PTY0EfFx3fdsw92
csAzEG7CAJwcHZHcY0R7JYp6QwWPmKR+OsWPLkfaMeksXQukzyiVEWIvhuvjhrYNdGCpCCPhFfIMafdr8Y4dTQJgjAkJlTogAfgxMoRwo/bfS/BpeexSDbYUUBB
cWRFznmA8lrggbp3j0/UsnCDgAPE5ahChTzwOQ9cdH20HHvqGI75MRoReLdsyGvrm4wUfX47s2GD0uNWRHCnSC7bF8IiVvL561Lm3jh6G1erwynCkxgDweLZ8Dp
+/pp5b4IYaVeFWFdejoQXewZ3cOwIG+nBKAomoUiYYTbZ820a2K5F87ReaJbkCE3OD78Gmh1fcpEbH8pi7K1ORItPvOQP/w1zbr/MySNrpR0HyfxyeYn58uXpbW
9Cu7vcz7ezh9A4PYITNOUZ9ds88tqiwMkI8e0MfTuRnRiImqGXg7FsWT8jV6wCOR89MehCdAcenH48NqoLL3r37aVQn+IcdkvPH1baB42i4u5wB9biz6oGHM2K0
iN5Gv2UhlGiNE6s3LW9mlt0hznIoTqGBTucXi9/bbNdb2kQ/J8F5Fk7QMPt1X/cdvXS87nt6f1a6uNQElzpSCsBMcL+fGJGy3m8dA8DD2bJaRrb8ygEcQeK89pb
pJ+DRWYkU+PXVDeL+cni0Jx4FssK8UmCaeBWNi2knDaFWT5k1cJqj14wUHDMErte2NMHPQgqJqFl9K5YOEoiiThi4FEOpihHlExKl3cCQryfDv1SDCRKYflnvd9
21jtfnlvQtpsclopc+SrS3ueNgdxJpVgCiN10Sp2OPLyOtu63j8Wy4du++YMTXr3t2P/n9hExvVQvOs2LfO0Q8e1j72oeyQ4QR5UyR2TUyhm/gLAICjCqRkSL5h
tygS7yP9QLsSMyPS7tAKrKvPSO8IZDNWRJrd4oNFztB8ga9YixVPQ1WeBX5LetZOEEAmSKoSVJiPKLbUYsmLYAXk+mrRCpMZ3e39SSNevgPmDj+4ViHpAOsxXD2
gh5fdKsDna1HEek5Pqf5+PnE6Gik13PLC7+37l0w8Rlamw6bUdzQguvREjPhqtXQT6+abXsPo3QO1bb3jARr9bS2B02BXEHuwjpK0h4gYZDxu/MOb9U4StMkVL+
s97fMgGtvuET2wYxnRAYySfbITZmk5VI0N91apiNqdeDx8ILgtc9CHAt2R694dTnx+rplB4jDLpKFOmYbrQ30cJyEX/awO1Vvz1yfC0gWOkoxbBsruuWJ84vWzm
IALLMcPQuGeQuc7E6bGVqj0BHpbxQ0WPhQtr9tHhmO0wVBkM9nQ4LMvmMWLzNtfns6/GysnlXdUyvuqrcC3bczQWTiaLzQrA5bpL/EWo7ePDqLD10EUIsiksZ7L
OF4CaJzLRavnVW6LaLNVUSB76+GrOTRiFrVTI3pAPka9iMzwrwe7Ya43KMI4v2WIx9zxr1HdiSiMoLgsehCiQeSqOpEVOdJjaPOnsxwfiScTgWPl8LI+17c/K7D
yf+X6hSUb+xXXFoP5zY3ZV4LOkY1h1C8370mNp0tb5gZx6evL0FncZEPESTFa2hZqrw1Iy9V5/elKIfNCJX2UIph33v+HVj6dmVupnz+ebRsqTPzVs/RPYho+8T
32AXC966kh/Eeiw0eUfzL1NgEepboFY5uKOJ/FEuwJSqs9k5M8Fk4QQFwF/SVTw7vxNjrQLeSGBsrv6ymFZnhObs7+ihpVNQa5P/cdatYAsd9FJRIYYe642uBtZ
B5X6NSS8mqS5BLiRuy8qU6iykSDjAZ8xFRJoE6msu3IEczslMVHEedFxGIHkwSUt3ZekQoeVym7xK0gdoGtNPKBfUyvJIW30FiJeRjaYn04cUJvu/lrZl+vVjEu
w9uXxHDFlnO5IJGgWLMPtxHpr8yVWAYFAwtOA7v3KjNVV62rWdmoHlMPx9WcUd3Wsu+9WxDq9GyuTrM2jQ3VUZ4vbuNnmdN26T9AsC29yRFqxaUqkndysKGBUk/
4KRxDRx+i6zJgLL7MaSpk/1HQd11OrQRFeJwhgCyEmWnp9vvqgpzPYt02OA9lnRwv3Hc46N2eFO1CfYyQoDy9uKvnRncQc9RsFWv6jKtmNVew2MYAXskjz5pB0A
YAiO4SEEeT5feorNlKuNgtQABTpPrxBa51WCpN1iLBuhbkkTKnXHbBsYomY6wPUlHQW0j+YFr1Xj0gu3SHdzuxVMDLbnjOrEUiaOIeDXZqCFYZ+pRvyCv6mV98c
XNlHjzN693eLUdqKLZqw4g09Y+trSvMSr21l3MwCaHkIyCVX6tVcVJBxqbJf8GILDA6azaFr35h1O53LGVfC4LeVPgAwAEWxsJ4XBjVvXob9t7sg5UJYn7vjnTq
Y7MaPrphZDaDNjdbjPVBaBHjR5gd2pO9AfqXXcckBFo0yT9+wtlOkMGQe/Au59FJMhUGJjN34BjKV0LjsBRiBmuaRuxiPutY6OoY1ZqFVsbWXg5ogqmKni4ThoB
gCQ3M83Oizw8GmXVjW1qHokSS5y0F2e/Ax/fXbG3gRaR7KvLgb11XI8AxcOQWtVMaymdxZ2dNIS7+yNb5djX6U3pns5qVM2ekk33y4naBtoeUl0BVBemB9FSp13
S4b6s97/YT17DIbkgR01VI8I5WXiI1xE7vjR3WMQSAWBvPbOTUlwgNVvcxpRZU729titX1Fs2Q58wIrUa9gjMe2OMgvOY8RIDAs17xaO/I+4pf615VCcRRUY0qM
F7Pc+KUhVtH6Coqg6PDmt1kY/C1y8tcSyQlOqdI3SYEvJz2UIXXSYwAY4CO99u288iEgSQZGFgarAdWnHfTnxjv+KbV2fZX3vLFDdfY4LXUfElVvLpdU8JIBKZW

R0DDKXgMxJBxNEsdlkzrwrXkBP67R9/iodzw/WcTtsMuNtP3O0neuz4XvWteLWfEBP04efjYLfdcPyKGD66O6JKXZfIcDLtmWaUYtgvJKJO/pNsigqvuAmAEsZ2
vW7Q2EEp2JBpcIBVJKa+SGl9uJXYcHFZNqoMXVrHXgY+OXecQcwnLsxof2jB62u5cU7XRYBDZDIHgMkQoPNz9eeO45iqRKSs3N+duXl/fHf1TqvHPYseqjX62Af
u9tNtOxoG9s2pYUev6NS2LN5PvEWfMJcAOEJ9OgnMvaAfNdviTAV1G3nvTe3BkPMv3ldsap4hqkCvFbKFQEJg3SKA0av1AtlHRrhvW89i6/d0eN6AFIncg05wXe
gxLaIy4nv8ByxtbYGTcQemoyN2BgRtRQv6qI4nLqkpQd1aF0WZ3vDrr++THuO7oT+HqQzfm9SFc5TAG8vN87lmau98r7utOxWnKaY+mz+3RyW4nxWD1extoG3D2
5gYBRx1pkliM7Vg9WzBBAkwT32393VFX9a6GOGxcKdwxZdrb/j03J3OEjZ1t5+JiWXlvlhGg+S48vmebk7sWIPTR07p48O+8PXqTQr98LglZvg/ffIKr697OM5V
47LgfveW0hLCB6OXLCDubWRn1Lpxk4Ij8Hti3zxyNRX0o6Z2IDMaU/HuEQYABakaTVHUcY2CpyHpMjBAHxpsBBREbU1DioZgzPT4TevZRIIcMDNsKr5sxYmirK6
2ooktcEYC5aoKIq1eZnMYkGRk/i7x2rNXqE7sJLUBY1dtzQmgrQ0ccY6+8zX0pZpGXKVVjcqdi6yqzmixRefJ/uoRR68OdPcKJV6jBY/HNCLA///o/sBjqNrU4P
3RkfVIJ4gXJil0IbO6PPrETNX885bdHSf/9wjw3RW0l/WdLYPMym8UzFhwO0bNTZNdSUVYnZ2OrFaD2sx8JLBhyuFnRbkpdClebNtAbSMjtYwyRwXgURdZDzwmI
0XTglevrjjOhk8fd9SqcT84T4+Obgts8eNXj3FvVHeSIY5Qa7k5NgDUbUz9QZvQ0Oiz24ObNMn+Y7jeYKlRVV4gsXI/ITQJvUwXXA3bFkyVmTesZxEJAogiRcvI
6zFmJVSx5Ae+PjccMVyGRYst0wL/Ul7FsKSVSDqGk5PpTIEJEq/dGYwAXcxg0mh0oaGIGFrTOWQmUpuHqDjXwAf32LmnFNGs9h3XLXdZkrjZvG6BlwAz7enB1Uo
ntWB/iQOq5Abh5wmUqKj736kuQ1pFPNGcl+UqMs/GHL6rVhHvNHp9bFADXp/blMmPgtnRawgksN1NcbfPkQ1mLntVA0eeWcvckAHkeAa3beJ/SN5o4ukmUaSYUR
tA5oKhtpH49Ro9+v8aM0bCaepMx49rW3iFmkwIvjZFPXhf9IrzscVwJqRklj8n6DCLLiBkwQLDYVpAV9rLjPiYWRbz3uLt7aHgs4kEnfIBVAleFHBTLCFv7xwVR
6Swl40ipuT5VQDefqQmKQ/UteDoDWaI3t9JzN73jsfHLSXCVzrBGAX9rNgv3UmduHVyjDIJag8teHU5vAUvmPY8h8ezzb7RFFbwwsuqNFOK4nLxXZfnAHjTOXEe
fzwMO845cc2bL1UcTI6qMTAN2UHmW1pM2V70BD/EesoxBbw3vhaF2OzPdWrMHMuZPeCYkxTpAC+bH5cb5BQpCJJ1QTILzHxgUilRRLOQjAuuam0jI04AaYdz0/Y
IbwvHqMNpL1vYi4gPEhtjym2t0R+fX6uhtXPpfvJIbbvr6RT9xXDbVR9Spguli0LBOU5iSNBmkL3GDvnEBsBOkX8U0mESOot4u85eRyrxNlFcmqvLcOcEnA4DkC
4D3O8n7rcTH20Hmii6Ffz6433SVh6PLUmkHH3YteTFB24VnVP6aokSvaVIce3RJ2y3k+Y+ebgksA14BHo9N1C2iI6RGm2sLBOvmZO8VoNC4onEgh6PDedw4xYxl
Dp8NCccoB5nhUroBcqsGK4y/W33AgphArzwBN/7MguIR0sKXNTieGANnuCldijcAXadaWu3KXyxN48MP95dJ/McFf/jw6u0kVnMENSKLOxx0/TIyJbe2khDI1vx
0bJt2aAnNeb+/oABeLxu6VSBUIM5a1aFvdrrrz+PhhqR4EHKjJYYKganlT1uKam/FvyIe4Mbwe6VYxdatewhBqL9MzC/kq1xCtmfKFTjH4G2OS9gOO/u0lwSvMJ
FU6kZ+EmITYpYVqv8tXOIDMcTkp/FyVuPZ0vBUob/FjQYtg6tRZO1QZzYBx2JX9Cahsf+y1XJhn2VbKc7jpYhOodk97NmxMhZrQByBkNbuE3nWdMAe0zwqm2JXn
UZ02lOIRAxH8mJWZBZW6aIMdLxv6z3v7zIEU4FwCUivmNU7KFeJOK98ew7v9untqVFF0mrAQ2Niodzy0LeZet4HZgdnRajQbOS4gSWeOIkUQP+uNu2TLEDE6i63
Y6z4nJ/JmWsVMV5bYAIrteGWi25fUxlSdk6j4YRnFm2xZ3XcI5NUV45dNXPhsfXe9h0bOrRxpkYYGYwSFX0HK9py6CxtadYfdzsU7GFp+tZOEFPB3x360OyD/iT
3rDfDzwGX9CAJF6uKSBT4rNX/E/jHq8iIvzGfs2Rm9ezzd7gMlPrdc02tlvMrVYLpv18PAHrcCLn2aBVE+i+XM5k1jOy5HwFOjTKY5XiXSDX65ZVPo8+y01LUol
UKGc2LGnTuutTMgtwIxdZih7GWcS3lBi2Xr2s97sM3mf+EL2+R7SPHb1iv3d7/PVjc66frlSXyVft0R/8+rrho7sDrza3bzXBp7Lj8dgyVV0HF60afmy7BJBpNv
vQz5j5y3nBruhikVUAx3VDDQy81pHHpUBC2dQdVRUcR/P0dcHedSCJ/NpjLnikyeQ5qggwcCPECsRMkaW6W4IwzQl0fI9x9f5jHAVyN6Z6euLob79Gz8IJQgIvq
Y6z3bUeUkKasuKMsO5ax1nUW5ACC/R2OcPD0XDZTnzP5TH6jx2nO9UHyMzqbs3ITyRaz4qm0gu5VwCSLqCjwtRyVgIBZS46Jh6jBVGbFWyzEkToelPAAJDpA8xp
AiVUMPpZ0zklnYazKk7HSdruk7ws0g0dAmiBVJk7swq88T0cZAXGURxgFsxU4wNe4q/z8gFcLrLx6nJ4xKezxbNFAetuo+ivJI/UEMrfkcl843LFpfawa4eG7kK
Cy4IGpQMpPsoo30UIomIaaXZrA+PkEHN3eCsWaMAUIhDznmBSsxqxaM++ZJtFwBKDlliIMwPs6kUfbsJdl75gkA7Doe8BZycR2qNnqGR7HdvpTL0gQqdo1ZwYHd
Pqkg72ji3+eThBcxXnM5yZmmTUNrTg4/2K37jeoYrL7hvcsB7PhrMH815jRvCo+AevP0qdNUZLQ32mA+kv5DXN9MEwxoKd4YmgwBKJ8eKzx5e9l4wKuWvvlzOpP
K2NeB8AdYRh13SAukRxiXfIbKkDJtufZX92fjwllso+R2nSqFhh8+OG8oZKOkDr7+ZSvazvbBlc3k2DK8puEcA1A+9ax6fRLw+E2Id5BZ/9w4zuzrPi1x/uMkoE
kPcLs6IWAqSMAJU9xTors9xYPY2cNgITcGprqWMW1hZmgw6nsK1FER/ADbdtIGg5dVZ8xWksk/MXEZ4uRY2lH9gitbZeoirsX4yP4tScNrcOV8rUNzIcEW+1wxA
nT79jh38enIioCG+RTgJTyeKMCzC0JGmaVBqNfl0+n6rUnAnyjcsVv/X+Aa+206dqVR+LCVBJw25IpJe9T/5fG1ngGN2BY5KSbygDUQWjg0yuE9yhXo+WhnzZvQ
9023o2snsK7v3CJdqREKmJv0e08415HlKQ2Akj0n6dmCONmC1NKUmUw7GRpNO17ahdJt/qZb2fJXAmATfoc8w0l4W9Pgqu3aXyb6IwHkMsbeV6Ot79aj/xcWhcv
roczliIosSqCqPqRYnL3bl0Dwmmw4Ra9PRJhE8lpwin6HBcTwqJzZwu53/noC+Ke9Rwdjx/P5hv3m6PU1oLEplNVe8AqZYbvPUS51Z8nGZEiBIRn7FFsNpUnaED
NMQ4zoUS9ob1PCJBzDkLZi5SQJB/q5bDlh5Cv29vPXTVvIDSA2cpwBwoE3OBqfaixD8W9Ze1HY10lVvuoCQWx/eYMj2OtvLLpXNREyDwvlTQbQNASZBb4Gk2B61
rarrNYMw7WoD+6DSGdulQKRNkBtJgV+BYCkUVFMLPIoK6qXeTdBrzpBqwZa4fz8YcvqvW2pFEHqyZJJWrFMX1uqO3Gv3FBo2NmTa4Zid9FDycLY9zjpp8wZHagJ
xZbQmrsGODbZsA0hFlOsnMQUukzh7hKUn1kaN3rb4RZ3+xLKILTMV1yXCCyGzBBRT1trc6KVxZ0OgFaB04BVbhdropUEZs3IEH7po3jJ1lqskY/H7gPOIusLJuK
7freVh97EYj0uEbjlJEfxyutGoBqkX/7/IpqP3XqndyUKSgCgAoakSVvmt61Mb02H+3LF7QOeawo8BUCLiWfJ4utAOnp/iFnmlsD5Z7a/7E2R/q0Vw/6s3YTEU4
yXunVYw+1TVYcWTEyN15Cj9IUl9YYbNIJcoWqXE4Pj1q8gPLC0Xmva8VaaUUHDE5DvEqUZBz4V8nSA8tNy2WpE+5vqR604B4y+hlOyHiWHcNCkpCM0VRhfBNQDc
Llp3zQZackBsscWMgqGMyVcpFvCoMLKovSq6rZ0RtG0BEjADSTonh5WD0qCYnF7BFoSVEVFcCNDtKMKaIqhTvglK2yPErPwvQzP+9QzD4WThBAv+u9FxTz8/TS3
d699uJVjQ7QnKY+RJBnuEIqIl2jII90uCz1+RrASuvqkB1RnKTa8XyOzJ1mBiJ/8+Ly4uTasB0VrKA0rGbrxO61n7L7TIJ1DqQfZeAp7Z9NNRCHGbeFDDKZE2nV
xdiNHf/GVUoagv5/VIcA+LHePGBH2xRBYYOkBL35yjeXdQ0iyZ0cKsK9IoN+8S3wOWq4jy3eI5jgIwub4YhEaKhzFbcC7V5+5wBCxYddn+ZYxsQEdzKRmA2wdfA
2MPuEA47n2pTb/MURamAms4xmlXRe6hJm/+vXVw6i4PVV8y7IDG/dtcDcF3mfJzV12n8K/hHhSzt6jCUvt+LK+mOUTDkeDrBpDpoZJQsoCgQZc2JpBIA/ffTU+LJ
1dCAHJ43hzo5qMoCPvGQD+rZRMmhiJZzx4f26mhLfI3ZoRNpBTl9uYlog5s7HNFrnYiQmuVx+nEU1pkY6oe7YdFTHDTV6mx83lDoHMwmLJUuxxtS/N+u+q+tRpw
NX1xssdXj0+hIJvve1onsU8HACfXMNvuZza8YoeDi2rBJTNp/R1Xk0IJzQjSp02NnUBIwRryY+bpO/w/mnPtBc0lbpAAHcdBC9iT/q1BTLfnODhGhB4InVUHfF+
RDk6W3KZ5XKyBGO4wV/r0dKzIwko0/xv7tslr9H2QfGtd44Z0Z/Lr0/CyVQATbNTimrbwcFn40TBJDVYFVJBeesesWF7KNEh4blxC1V78bYNq++XRfZoC0mZHGy
mwCZvjK9KJsXR15dzpkaj5ayQKM3SIg3OEgsN20+KV9kdJYhfV4UWPiNTHV91430wGZbEeCgdRI/o/DWT58LXLfAGVnRjqlcpB1QzohiCjwnPQusiw+oD/Y9j88
IFsCLlNYHWIaJ2x1XdmTMMQqG6INPzqhzCQV0eIbrdUt5quO6JYXKLLT8gjw/OaaeqRzXLTtAWhuZIbDIVjcnMpPDR9UWTymiGrwWS2TSWNahXNIUUpHPZ0Q5Hi
p0n6ou3vEBoA2vCAfthXJwFvePRXRH7E+vFSjI9rkilo6WkZ4NqiEBqIjIdW5A8g5M8HOrwyLyQyLyn4nIL4nIL4rIH43Hv1dE/oKI/LX4/7ctr/ljIvIrIvLLI
vL7PtdSsMjgiy09wf6gzx7xvlz2Wc5+XY90WnRPMDX2C11ToPTTRyeVXg93bn2plJZMoZ20/epyYr/0aF8LVec4l36d2F1SVpSFEnckOqY6DTA5fonThY6aM/l9
cIxGn2dSbxC9nOLs+XbpUYUb2C490xxNLbdZUW3NW+j6WVMvsNyNxHeS/U8wmuD18+AKfGnry7NtzyZqcE7rEvn3XiM17pm9tBiYXiKraFFdzrkdUZ11b+7jw47
jqHh82HEeLbsmiD8SD9y2jvv7wxWg65SXa5vTYfQadqkyuzFYSKPjXfp3kzZzFuhRw4FOqku+HkjOnv9sN1Ve9vdKMZRtuKBHVS92xCZf7zrsLKibp9bQKOpt6u
KrxBhbRIRRWfbzq+8cIvZFzL4D+NfN7J8A8M8A+CMi8qMAfhrAz5vZjwD4+fgd8befAPBjAH4/gH9HROobjxzL4DNwa+ilcW7G0Wtyq15f9xQg4MAZthlxgDXjm
Nach9dCFOFc2tP87xokaI/iXoeQpHesOKmTum1Mmdlovr86/WKF0zHEHIZMYZfdRxYMhZ91RArKqmzQBmjQHulF+1Mv+TvxFlN3lm64PD4yiuBch7Z1p8Wcs88y
gXbBNPbFeX4N1we3bQRjYO3mqWUWxVxCyxMy1YLr2VIpiRkEVaJLsZkxVE9lz2sDu6dIfQHCQQ3B9WHLNJlOjyIg7CGnsnO5DEAl1J5vuaU2nIFQ9nBSvNmIay+
RYdkHyn1Pvb/bVrb5u88Amc5SH2sW+OrmA5KgAjRnVGwfHUhh1gJYKEbrWadjZqW7Ti1NKH5zUlpm9mtm9l/Hz98C8EsAfgDAjwP4uXjazwH4g/HzjwP402Z2Nb
O/CeBXAPyez3ufa0gJAR75UVjg8dg84gsjqsVT23zd6UNoiP+RCgAge4VZ5SXWpurKGOlgcNtTywIHK13cgVeukQO9Niu1Nqt/jEhHgNTZwsbIMYpegtj9yGUq1
JErXhEes20uCzpnwfnYcDy2SBksbg7DOCv6EeKrvXr/8EqBOetNxJrpCfHO/nZD+W5cX5ZtJ9WKnUbqY1RJlD/PmuK/lGBTE5xnW8ZhzsJdDSk3h1gsic2cp6Pq
szooIGBDUqA3VamDleDQjKfHItECR1mtJVOwEU5LxbOXI3DopYLNSW9GSSuBC5ueQe4WV4TRoLP46yMFl8B+TDCOiv7Q8u9SDP2x4Xy9T8cpNgsmFsKqffYoA/H
eoT79LnGQbwsTFJHfBeCfBPAXAfxOM/s1v8j2ayLyffG0HwDwXy4v+9V47O3LpnKGWai7DCdC7yFFNZSUAsv5rKyCAcjRmLfCB6vU+Hw7VmBnf61kensER7FVSW
L1OrthsN2uaPwcatUlUtIhef0NcOMcNeksSQY0lwkiViEVycPKeQlYsEPFTSpCZQzvA9Y05tIsq3mqkhFf3UKt+trceExgY+KZFjjQ13V9MNuOleNSoz2TlXt/7
ym3xSmFLKKwW+Q4fNOuiVl7kaxU0ptuOzykTLvhHJrRXei0tYH7uxNn16U/3dWeiTNbL16Y3aKSC2CdWEi71SMChKSzuJNEmXbO9rabVJoFjUsMEOtl4nuBHxKz
LrR19UpxDgnjKoZyGdBPw52peOfItfr9eK3vtO0vjAKJyMcA/iyAf83Mvvmup77hsc+4YRH5KRH5BRH5hf7N1ylCwMlcfWkz4ou5Q50R+VF3UE1y0MxxtJtGcab
BjOwuMT91TQGZltJZ5nzWmPbF3kws5zEYgmMaBY2F0aGN6EteUnxyspJyY3NcYBoXcRVG8zFb1Z21TQpOnV0sADyNgQ+9qU1vrsQ4S3IFHXuhMCXTNE9jvo7rg9
r2b7z2J5Eb+LCD09xWVaIeqeoqCgLghiIDIAcV+c/eh64hB7ftPeAS4o9xxhEdWrymc0REG4uOZkArOiGblPevgQnqYpfMfi7DI63FybDymzL3NtPhtHeDzwPuj
if6cKR4fUZ4fn8oR2cGv7VePF0H5w1HdFi/cTonsJg7VIPjmbsC2xKxPllfyAmKyAY3kj9lZv9RPPz3ROT74+/fD+Dvx+O/CuCHlpf/IIC/+/SYZvazZva7zex3
t9/yygHaqG4BcfEXTh/TCWoDSvAKV0b6tnVvPwt+FY+lQUkBfODLWAxpbZNbU2bOX+A0u0Z1XJkOqEShwrlWE/OhUfHc+9Fc348g8lg6TdisaTJVNobc0BESF6q
WHR822PgerUcEqSPN4vcCdc6VnQU9ZjRYL7OKF4aCJ3SIr8v6Mmxb0rYlB4wnzw9ImhYwBQxuN3LPkji7VyPio60h0u0zWjSBgGsCXqFAiB8PoddXsre+Na9Uz7
kevuEyUtUu0EeXd0NkFwBy8hvM8TkUzKivO1aHCA6g4lPfotosTefsDzo9BThfeB31INVuMEc9vDDiX1hErkfFeN0S704HWZf3f8v6ItVhAfDvAfglM/u3lz/9O
QA/GT//JID/eHn8J0TkIiI/DOBHAPylz3sfwC/4VHi5lXZaAWQgcDNzmaK7reMSZGq2vTFya0FEvdydGTGtTHyNnfZ63TI19Oc4FsiotBaNIUhjOuQVayQxOtP0
2fuIJxeUWn+ljpQJZ6UX8J2YdAHfOd14vFcyjCgIoEwxtEt2goyohqWUUOyyZVsqboIcVkMjsXdU0L4b15di24z0er2J4lgwO8MhvX70gUsCZPZy2TwLWe01sWQ
4j5RFjfNoKNWzjspOjNh0++kdRzamYzuOllL4pUyMUeAZAelVxJRlj3Sb6SiQzsdUIHcjKsiBnRd3XEJcKCI/ALcOrIeDYkX3KDOCFI/o6Ghl81Y7W4/FnmLAO0
S6AN3PB2L+t1Omo33D+iKY4O8F8IcA/Hci8lfisX8TwJ8A8GdE5A8D+NsA/mUAMLNfFJE/A+Cvwqtvf8TM3p1nRVHhYFoXF2QEV4iS+GqSeKDzqZrLFLFrBMhdl
x0VIrMKt+6uVOoAkFXnbAbf3CgeHzeYeSvdtjS3s5PlcjfTZMpjseJmQI4IzGgtDELKJE1nU/mKBxLTGxNHkU3zeSxgrCmGBKGU3CrHPSNNj6ucvZ/EZGLnvfnb
12t9cNtm5X6FU7yXt+Du/kj+HyO2MwohawoMTOy2hDo1CwDsJRdg6RteChMSmyxk2p0JJNRgii2DjIILi7i/2BFlFulxTIijJBYAH2nJzZnpbFUIJAemZ/pM2yZ
Usxbi6PgYAAwJOazA2dPxIsUTspgy4ticIzLcmQKICvOT93qyPtcJmtl/gbffHv/cW17zMwB+5vOOnc8HssG8ZgeEZvvbwKSQiLjjo2GRapDqG8Y5DMiK2BkVMT
ovKToFSsMRkSQNkxw0zXRCVXyiXKTMQ12VoxTDcdQcc8gockS/bikKpXpzmxO1dABAWRyoZDps5ikFnRjDffZYAggDQE7UkkiTqBQDIDpBDGjeJWLm6Qt0cYDEa
nQx0K/R+lJse7HL2kY6KilOghaxjBJdp2/kY267NSEbVoc5KQ5AFDO8yNevLSYILkWRYgmr6FFxmk97M0TqrQUPj1vaett7ziaRyoJFUFpMYITUI521XoBq2TlC
wd5SfDQnObE5DJ1FuS6O3w2Z9BXybflce2KbKsBlTBR2j5QacjtWM+ACH8QO//l9VYc/1BIA7JU8jppdHiQzkyOlequkLPA2u2ufyhx0LGu1mViic4wU+z7SqdK
Y/LWAYRJUn+7ESTi9+HF77JqMuCh3TzoAgGwbys/KqtqY780K7jpAmpVdofIHB01DHORlupznHnJHKr47B5lWqnpqAsDO2L2rAjWcafY/f5hr+3VfIhbSaW1Of2

MRrViInU4cmT3tySeMdi8qRfM6C7up1BVSVL3drFZF1wo9S1R2AYp+cGRljWprrQYrI3uMeZ/wvHuvqel3g9ExagNuRRCuLlgwjgKtkqMvV8qMCHwsLJ0X5n+h4
rpkKA7bEIeUU2CosD1sWgDsCqs2MUBG3P4RkdJS5zMXUAAQEuKcc1DzxuYMDzrC63WDxTwPA/D66rtYC/CX1TVgVnm9OjanaR0x56AUwxn4yzTKitEdK9yjS4MV
ulp92A3ljoZJtkE5oI2gG7iDY59vblA6q8hmvmMCsZunSCWSDsM0V4qlbJCdBXIZACx4UcgK+WfWEFjkKNKCDGvzXKZ0cRjy1wwT/LLWWqTLtDhgm5MtnkBu2OS
F9uWxko5SUqatiPmGKHOULAsi2jQHEBGoY8vnCZ+Jk+cVhRi+x2XrKfWvHHXJTCLOIR05BVAHbsdaxt+y8GFLMZAOiZkO01+Df543bcxisM1mejucwpOk6E1hJa
JFRBDS6ETx/CNB3yFcAoqzCzg83MwyVWCExsjRm8Q1p68BXlTZ955yWCKGu/sD1+vmhNAAescQwKZckfcx0kinQyliKNGBMkbB47Ghhjjr3dbxiIZSx5Th10nLI
TUhl7HNzW5uBlfncOdHwzUV4CywurD2jwqSXzPNiSqvNJc6glimy1nJ5rCZ+GhZyd7UsRMa4zvA45f1nS0B5qwZ2oKGk5PYvKLYVZcKKO2jFLfjHJRUfNRl7zU3
Wg0BEQBJhIZG2l2RqWFmUkNyeBgznNELDhUflh6jKEoxtKCUcbwEU02yFUS8KAc66bMAWmCNGREyw0rZe2KEjQ4t8D/ie8CsRJd5/sQM/aCWhRXrArkfJFnM57H
wYoFDvmU9CydIrGMMNxQNPJBpBKOt86wpRgrMqXEAbnavMQq2NnAixmtGFNdpGIndTdIn47Wt9axOk4qzDk7n+x7w4fCtKC6XOWbQ4E5GpSQ/0D+jAMGZZvO4SK
S6ASBnnybThp1KHzP1JY6ShNFmTj3Q2PkWrhUlyNc5C9ZLYC7xnEgl7FpfRm5+oCVi6NHT23aHWba9YwynyVD0FJiT4ryF0tWO2jagSok3d06811kYQUaRMqMub
oQJCbkN1eAHOi/Rx1vSXnguJHPXClwfnV62ihQY8eygs3j/LqBmoLADMeyJ+cHT0sQI+QWFM6QXM8xocAA3aXOmu4z4MAnRjBLpYDl7uAvMnnk6LJiYW9tmzy6w
tr6NlMEXsZgepxgShlB8JKEGtjGHmgv6uSWBmLshuXQVFkURb2WaslSuAnyeFa/uDly2nnNLrssg9b0qRHpiNtdrgxUJBxiKM1pu8D5PaWw6tnCICQjzsbWCbMh
Gc6pv5J2wu4q0XWvihVmoaZF+n3OIDbGTZPBfxpQjf1nvdRlmcQRhqylgEaT5/XL6eMrcrNyWLLipszDi9nK9uqpRf9gg1VKNhipGFpkEhT7OawPg19/FfH0qnK
nfbx/dH7nZn71mWgz4fUB6GRVlyj682LZUXCnksRYInZqCWfndkMwHVPPs5QjaECNEhNNiKtt04nkLjIhiGUGLevcT1W/8NTNoMH23YT8LJ2iQFGCkg9r3get1y
9GVtSr+/+19Tagl7XHeU293n3NnPkvCjn8Qlokd8EZeJQhvnEUgCzuysb0JeBHwIuBNFg5ZGAmvDYmz0SoL442CE4QhgRjtjBIvkxDHScARimQbEmFhkWxiNHPP
6X7fyqLqqaq+38x8n6S5M4dMFwxz77l9zulzurp+n3pqWTZcr0lxpX48CVn7sNliGsBp2jBNDc+f2TxtmxJHaBfa0oH7ZydMzqQR2+LmjkkUH3v6HItHc+to+Ja
Drder7wZ+rxsbtgxns+FekgmydC8aY+f1snMHTysc1uLKZQBTWARHQwdEXSm8KL3nJlDXPKbV7AgCiEJzrgJARAu6Nsipo537URN8JOndqaqQae71suDuyRXb1h
yewsYW0B405QDOv3dcL4YHJJX9dp1BhnSDX1mEPznN3FYmmwAzlKfFHPST0xob767bjPursSt1X/Xw9L17AEYmsvrrjM26zKazLEjbuarCDBadcvPMxidK1Gt+c
j+ZX3/YrPAucBhAZib8KhQW4QHApYUx1cIcAyCjTcB03xspL5ObMIKA3aCEsbSGqOcBwDJ3A5JKTjVs22TEotcZ5/Ma+MF56sHaQWzV5NRSrAUy7G9Ocd8mDfqr
ZbFFSIDBdp5dTkH0qio4zx3TacVzZ6tmjVAAPDk5NXpv6DpFF48EBkpICsuOWgwVpZVtWewYMwr0ekx021zhFeJd4ZHcbNzDyu6Ywrwu0wQOrhecoLyibnLIdy5
1/QKxqECCounk2TAjLIazsxnBsZOcrM1Ark9tU+6e6VFbs/9UEdT71uiz85qk4eoEIcvccXdazSDeL3j27Gz179OGu/OKdRo2lsp5YcK2WLMDop6tPfWPc8LhzK
mDhLIwjW3lXmCNmnawC5QR3pyPA7DnM9BgcMDX7mLv9YqxuRsxgjDyUo/Qtq0FREVgxAj0gDyuKg87xqd5QxMEM+/1SnwgAoLAZsW8bJFq9C6QwHPBXk+tm6yT1
VO+53zF08X4DC99jn0n63VG9/O6+M6I02nDSsiKShhApuMAnDhS0ogB4PgT2TSMx01j+JxYrEgFALvQ9LSsE06wyI9jd5MafIE6tozSDKke+TCCr1+s7sfmBsl2
52UzVh8XdQNgdFiaTtrLM2wWns+rNfm63SNt9q6oJj4VgM+OO1OMg+5HawF4jrUR08BHnlzwxHebrE5s3ESDj3KeO1Qk0vJYtu7lG+1pnJXNDYXroOss012Boa3
DKIrX/eC5dKkVsmECWO06miPwpoob0oHdOF9Mp9BQPogzHsrNGEEA0URgHVDE2GSul4WBz66uYWwvIzqyl3WJEH9ugj5xHtNSCSO27AAsggQQRnK9N6Dp5vRay2
kDx+OaGLvH/bZgG7b6k5vpOBLFrjQbKpt45Ekve94cqK3hrKC5H2RsYnYvCsYaqHvOZAJIJLx31pSbqv31Qok8kowIEPBhc1gaM2k2T4izeRHM5pDvUnJRVzDAD
BsGiGyl2bpIpsur07S1pujqo51NsczdCFdPRqRKNulOWn0xdiPbGtiCWYbNi+FOfrmzTIdsNSKK+83mjr91OQUMp6mgP5vxvJ8xOVX+6bQZrGcZMbk0nXtSa3G8
DihNPXintjRFgH1jhI/7OCiuZeqFeL8KddHy3AqU5usO2RvBV/AJ3ogRzOmPXGwkkRKT2dnqdYhoivPFZOSY547rNkExYRLjZrNJlITLkDponju2dQZZodsy8pq
0getlNu96arH/4TTn7uIni+LaJ3wLpzi3MbwGc6c4LZvhGHuD9gnblYVtxz8SXsBC+QRw+YwCgQF8ON0tJweajkyRtSOVx7vMD42mnEcMr++wgvQunNE85LULiU
sJyE9c6sAyk+bKnZ1nP62UhobDxq7rjNWzn9N53SEWuHBoOptj7dcpcYKEYc3m0LcrS0Oms9d1thn7NvDktAah8fPLCXiKyGTo6NkoueqMcZnQh1odTgH4qldpC
GKPEGYw1OsViS2kIbxvWfebyvH8Pb5UjwAh9r25g9dTOYaTJnT0L5EbMYJUEHVj5oj5SYJ7zUCj+1qKqtiSJEaQzfYQr+uM4RTmrDMuC9lo8l1bG9GNNcOUm9ly
EY0ENOc0d5ymjmXquDh84W7ZsLUG1cV2r3I5k5+nMfYyvUl2mcoUAkEUm/s1l0lHA6MVjJWoRXJDUKEzNhniKa6WuuHD6E7U0uUB98yufA/rLIe8FqHektC2eeZ
hEd6061xyrI5Ql1gW5hEceQS3AE8bikIBS4s9KxheRxQfOSM1Fvw1ksgUWC8zlrMNH9ydVkxiQwAi5sjnueNyv3iqjbgfY5MdsaZe57PU2+uBNEBdzNKwC1yjO2
B/LKV5rRCaI3MBExsRWcpqvJxaITcRQcqH0ukbMYK5BwFA4vTmrP9xlOwh+/OI5/gOYU+Bt41g0BZrLjk3DBTvPGzJkTgKn5AAUhMBVhsUUfzl83OQObADvUwWb
SY5qQROijxvw2c4AQRcRZayUKlLLpT2MSgjUjBCBPWdw1xcLd49Du+7aPKtnXv8HLURwKLAIeldmaIwNWGn+ZDXKkFYW4Rkv8H3h8LizObfgydtmyEirl6r5spO
oNz7XvsePZeZt8mMyXDCgeVugw7B5svD4G91f12w9pzaYmZV70tVq50PLx0rvNbOLEQQTTeIpCOnEWO9++r1xHlEFiJrs8bHwujPo0tGczUaDOYZ2BQJv+vh9x7
/xvT6A+RGjKB9EHa01uuMJ0+vATwGUEDOlS3aoiZbUqMxagQgosfcvSoxb9nEIqppUmBKfjcyflyvMwgwHaNhXDNNX68zzncr3ru7xh6SudvUCtcojiZhUC1tsW
VN23U2r+zjazH54aj4KDard4WBXWobqayoRX30oKyLUGGATB04oB4euNQPF012jfrcQ16juBOKxpvX29hkaGOX4cB3hQDpyDlGx/9FMowSzwo5iUTDROOn8HR2E
7SzYQab8/ORZm0bgu5Zz3K34cn5HsvdwFqGEdbrbI0SNcdLPk3Mpr/93qBdsij03lluqE7UUfH/afy6gBvWlJHfKHrs90J8jRUMTX2mwVTvHnexJkqtFX6AWt+I
EbSzJPaJngiAo+XtwnPELVgu6A1nJCGCJnECgEgnSJbAGUsdDUOSWYapKUkvLa1g7XEYR1t5rcs647LOPk2CmHEew/YLA1ZbJJQHaJhPWzDORPNCTREywqvLbeA
GEtDnk0d8kkPrVC5XZsyarL3V4JG6KKi01K48fy9QmUMeRzjeBlijozUnCRkNaIWNK9JfC9HUmYIAhAPXIehuU4LN3OEkrMMN5ArN4fVlshmFKM/NGY4Ixl4XPL
tvu2CUXebabBhiDUSrxXmW46OdmMp7nEZ2cOMF4WDqLAnF34fsITMP01zNY6VbQzERFf7YhOggyyq7iPGh3IgRTIS6RXQJnAYk6nqW2iasgMj2tVvNjkQLpNES6
X7MiNdjd06AiPykDcAVNLB4RN8Pu9jY0iuyUTO3ATht/uYTI63Z2B2903qZ0OepQHI2XO+X3QVVTY7ACo4GkKSoJ0fOB9TAPKGcNCEuUWN0L8losCL3hwCELNCr
AmkcD3nNQkdq4Py+TWY4gJiQUjXDSCKE4V3b5ugDiDoyIiNJ9cwljhlTAqyLQyPZQYxJ0lB2w5UahyDCQEfw4TrOMdTWBnCy53IiRSbF5flizDTenFTqZ81EWIJ
5OJZJ2AsdOb+uWi9E+Z2NO3+edCsdATSG9jlV1H5XT5ErXOYFchMjAiwe5xduNQ/i/HpvVpyN+qCnDz65URlnWEDm76wjVvB0cz7BoNEqi2kgOabUr+ZBJc5xJM
MLEJEi/2ckS+9MeqNWUm6CZSszB8kQYv2lG+DYJ+xFYbnzNPo6BQBVL5OltBxGB3YdYAA+nG5jSjt2X3pYKWnxIa9VmCUQ72fND9NbcSwe6bSibINc6sV54SANd
pYZskqTAxMwXWlz2WPjRkNHYlVjVJL6BkuluZOaK1qzvu0Nvsl131NhCkcAOynxIwuBA6KRtWggdY7jcrUxR8fNyFGx1+OICP1zTVn/wwMWGxW18Ts2TF6h3jcR
CfILB7Cr45G5pbUBWQyGouPBYnPvArdmhKVk4iAynhfSPLEZRAEAdt4cokJ6otqxIz/bzCF3V67eG54/O++4AonG5z82XsbWvDOmca6Tp/h2IgmATmoiDsIDwch
LWqwGQAh29p8JF6jzyLWe4mmvMsokEp8emx52fYWmHPIdC6O34IlElliGd/kNtsLGhl8vIBjM+1aYptmc8JKNANEEseZZTiiJ1+JUAV2bk6620FM0G/kkuwxEsF
1R9F2jPt4mxbhKAPExBApBHw4xEwBTN0NKp1rTVwFk6VZXZAOk1rlVSo26fIHUZcnmBwSQq6e56g0ST9dl5GvUaPFlchORIJCMLQaNMWNBHFONEE/nFfPSfZ9Cb
sRiqkBlqbtGGGkOgkYdalAjuc7xH1dCLkOKuUvJGlzz7qwpygiadEap87LF8dM8og45etYPm/jFq40KdrW8m6ZbqcvMY7fjVZxfMAxYt3E5kDarNkzI4LsZ5Rb4
j56YnbpDXrsQcJ/M6Br7qPtGfWxOdmB6Hewr6mzU3qCIqM/r2DSKdi/4XO+aUyExZiqK6YnPh3dvtLE27s254bVo8lcyijydttBnEcX0xFP5qyEXgvR3bdHMa8s
o8BckTVZz6Bbp24CM9OjI2SCZ8r6L49SivxDvStPoyebOg00Tvj9HR18iN2IEEZvdCGim4WLdb/ZIK7psIyPGoNO6MwDp9d4CXEaSNDTcDMe0s87txl5UZLjPWg
0NMGBKY2kJYsZ3XSc8f37C5X7BtlndMrZwgamNLbxBqetM88B07qFIUi4eSU+Ja2QRHP6eSVqZNRUlOFVg9UN2hofE7GSkLEPM8BF+cJAnPIoEtX65eVuJTFhmA
ax8MtxIGRWWOe4AR3cznDSOTJ0tPe6YlhHQmH6Zwpna+KS/t+8K0d4i4mySRi8mljyQWK8zrveLsyzlCB4ETqffcs7dsy6ug5DaEKGPZTOOWD86YHaMGwpIWrNh
Ug0bEK8nxZhqbfrAUmIMQC6GJ3yZ3EQ6DNh8MAfNiaEiwJRYPnZ9xYvHwi6YJKECw//L/RJ4P5nIxTagOgUifxtTlDDa3CM1jha8i3rYHyk7jeqS9UkWsjcHu6J
ZKsOdHzYuZ1HA5J27KISjWYfNDWebrfhCwxzekpEiUwb3mCKAnj1FJkaIkV3zWuF40Axh940p8cP6yyGvTdhssOxmyms655BAkGt4+qgAdJ0w3GHPjghgOeZ03q
BDo7GinhqPdfKU19NYH2+rjp11aACWbRCMr+YsVWGMRsrgYTj0BmY0uU8k5ocR5RgaRDsHN4pdXNfkQQeYPyPT5o0GAGkAqZt1AqTB0lwaQxUoNF8Hngov6oXMl
1+fmzCCNpJDEHQ2SYYz53Lm0o5FNDd2lN2K2PTGnQ1k2mBKOU0WUV48TWaXdwyxJTUzV2GOaGBwC12wXXvzJBg/HFAtTSHe1WP3uTXDSlWogXZB1xYcg0Fy0Mr/
jF5XiZog2WQSSc9UnS/uUd8y9nWVjqy7lNpMduZQlOy1XtZDXFivrpGbqgSBadCgETs4eU3Znf7ok9fSkjevOy4wCFk97cYZ8Vo6JMbpmu/0JnUb/96WgR7z6T6
z76WYUZiFuMJzh0CYR5ABy2yGtG/5/pHKCgrLS0lvUWp2QquHfA5ghpXLnqj3vDdaea06faIOi5k1IsBdGv1AbsIIiiCXEbHjBcQA+LY1nE5bpBbr1SK4VowRP2
KbCpJe0pguyxpNFyCnRwi5YWRGnJ8d56N6gkwd2rAI1RVMvPNa525jaTVTjh32rxn+jxMiwaAhmQrzwywshAC1SRIURgpfeu0GDYhUxgye1/4CIoN91Mf3eVifO
eS1Su9OXhApJyBiWwBl0ZxiIuMLHZO4Dg/jH5yXjvV+3ulqv5+xPL0WQ2vv2ZbhS8ot6h8le9DrBPXIknotkzMRKXxpkR2uaPF+UMTiJI5yqkoyxQCma5MDpaO2
CdNlZiF0xkDCVyq5Aj/76lEqo00OEhDl4BEoa4FhYCd7jk4GlYH4MS+RmzCCu0hptExRS+ODxxm8xMgOpqlAYgCcTxv6sNrbaIAt6sq9qhw9IgZq25pR23ua0cS
of+qMcS/pLPx1qAxo4udTzkucRDOwhjx5M7SipQ43BNo83XAYzW4ZU13c7sYWgoTHEPvH92F6sDimEJLPi5QaZgw3SewVcVoPaiqHvB6J9akuRqgr0eiyrMDKNY
MAYW+e1aGBMHAFBSBNLYtZrAEXcBriCGe74JlhIBnKyxY4wHRaIMDJRy89jeYK2D5Sz4ijRYetjeBWOcAMmutzLFny2XZVzVo1IzjH/AEI2n4MgTpFnLgh12VEZ
iNbAUCrQFu5rzzqjHphxcO+6Pp8G9fyUYX8Z6T3meYeUV4Tm+Mdvczojobr/Rwds75OuFznrCuiGjBLb++8Rki2FwCYT91SXFgNklu8YjtYsxEkYq0YkZG7j8Vg
wm3IwWY1nqyPAFnzA4DK/8dudpx787pj6UwTS0iPHFKjuwIlwDLs8bWkMECmGRVXOFwJD7D0o8jwrGFsiUeNOt7m+s4pJ7EuL7vGulnzoTv7UVvKfdIGplM3in1
PZbd1iuaFTYxYdDnWKeAzFWVQMXQ0YrmXGsFCNLpE5Ifh+NSmRp3F51wdwuXja4AZYesiu26x9ujlIztIjQSBaIZaB6/pszeFgJLeviDFBhBNkvexVL9AbsYI9u
5jbQ5kHg4jIDwmeNjoAUVtiXRMcSQxQsURVlhB3avK7vPEheduaEbnsRpGidTlOkyR1fFN8Xg3o9qvUzQzuis80xIaRmnqEAINqALZg3NapXwxrhjxmHeI38erB
piS0MsyfYhI0I1qBbB6JClDsrFyyGsXkvpKlFU0CXABrN9asF1zdNNq0/5kAppL5EfJDXTOWyka94HByLyGNo/oONPJyuSPuWMN3F+XsgzJ38eNKHXd3sDJFxy4
L00NzM8xP89ihgcFgL+nLw+z6M2dOiFbFVajlg6jTIJY2uvnWyI76RlJAtiVfGT1++EVCLCbSIeBTIP7OmFSLjRHNCpyUXni9YZTeHM2coyGeR5YThvun50irTz
drUF+Sk43BaIBQ/p9AB715YQJa4JJdlCsTk+jHIVeSdAz4JHkqUfdhyn8JlPuaoDVKKGmoJE6N2O2joiRXrvl+0XHbHZLGvUceln7zmqtJbCDDl9QRpc1YjzktU
lgWR0nOBwf2DjTjWEzvaIY1ymWpg/uB3E97l0iRVZ/vdl34zTqUbmGkzdDuMUQD9LyiKK2lo03Pp9MLYKkcWOHdxphKMUj0amk9h2wMVRFIBPCBhF5QRZpGih9c
E5xk9prPGxsBABaAD1pNk26N0RUCl7w1RnO7RhBUB8Sh8cmiYRLymgxIrFB2vr9wPdyNsogbWnMrMNrhmi9zFDMtnqwKXRoYLTqlIkCzsJh9FeJ39MwQOy62d8c
ryfmZQc3iHUzwBtYp3HMFr2rSiobkCQJjgtUKketbWyuITSKJEJQpIKdUmF3MIPhz48bEcfKzceSes28fttcz9C5VRCmRE0DxmLCzUCtn4C8KEwdWurjdi2U9
3+jVmN4R+6Sa5r4YNvajPuX5xH4f67wHjgRkkNjFcxmWCTmZo2+xrHU7RWbFjmSoPGLlCRIySqzHZKSYZCLMZQabIXfbzwIqYFQ5M4iT5PtW4vkRuwghWdtxsq2
s0RypxQSVBYCQHIGivrpc5qPG7psEco8JvgPOT1fY++NvF0nN6SlcmNirI/xdRmX+rxEEpL3CTMDhWANeg1JfWfW+ynQPnnre1Re2E3r8Vg2QdOw8Dd2h8V1LHh
MmlWbF49oiQBXQqYjVyu24ycmfDIa9dgtFoKhySBe+KIREJwiM3jY4nCtxlQmubGbq1oc1m4GyU1CaWbE59wthymftwGIvVph3gPI09kzj3zvCfNyWiBi6eJp8d
gkV9EkRaPU05Cri1yYga2JwjhKv5DLuntcp7fkvyBfF6OlNi9fSX88CRGjcYyw7xs1Ns69kDp91YvkxuwggCyImN0vmK8/YUojVLCXUY9KRNCHLJNJA0jurGr+3

G8FSzowxPeZelY3p6xbZNiQ8kcLopOpejR+cWscRcPFpkTUXmgXbKFD12D/eG+WxGe133UWtdiCQ+9qYDtrGrOQCV6euW0eLOsw6YAZT8zgCUzpj/zmiRaTNrpg
MHicIjic3lFsyq2wSDl5iBMuorb5oMRTsPcGJoMC31jKM1W2cZjtsveu8NfZ1AmJStgO2YzxvWZ0uUkYQkC/7eCuQsOnWrYk05q34ezkPouMJpeNYDiG957Jc5W
KvtAyPLL4VgJGrUHvnJ1evSkJj0CEA0YEMAM4I+XzY/zrMg5WvR4dTusWBfM3wgt2MESydXkN6TMvuWOQDhcbbLhDGZR92usxkkH1vrbHD46JEEJXkWkeuEyups
HnVjF43h7Oh5YrHsomt6a6AUlDVqNds6YXs+R+i/PluA9wzTdXc2VOm6TVBdzKNvhYljHp66FGs5qUMEgGh8NKQhE5RJEcnucIEd2N/8uUwXQumOdPgxZETU7em
p14LZNCPmTlp34wSM+wkykyUGUcbokzcM66pLSQfNndasI44wfJkCW8Oi4P/q3HiFT/FhQl+uAlk6cDI4jD5383HuXsvsPgpqT9zWCdszP4bLvirFFn+f1Iybls
dqBlOnQoZGhMzXkdXTY48MhYa5wG5eRaLwobvDIjKJyB+JyBf99+8Tkd8Xka/6/99bjv2siHxNRL4iIj/94d5Ao0ah/nu/JMdfpeohD9t0GrsUjqwYG5ezFyD1c
OpwsmNwFhIwD2uGtRsey6bWos6oagunCblp7Liyu+qeF8uIJsrmQNV2t2E62Yzw/GSzXSXOJ0fiBhHFfNrAFYWNG7s46jRkl0oBMEWtS6Y5FM8OsWiywrD2xA1e
A96N0xfzvL1D8uh6DeSUSNXh6xTzvRyDNBhL7tJhyliXmzO6I9ie88HbZcZ2nVx3JbrRUGM5b7PmigUgjORuzpywLGYG1RACwDww7mdjjh6A3HX7JwgDOC89CCN
UBc2PCchW4F2LMdTyWYEylYJMjxkBdsMIxgQKDSVfC4iGiIoDplVeOTv87UBkfhXAl8vvnwHwJVX9cQBf8t8hIp8E8EsAfgLAzwD4ZyIy4QOEo26coazsFuxotd
nZMrxTRsMpk/oCdftCiakSgW3dWnOCJMaFPDIkJ+E0DcwsVvv50MOSel8KRq857CDqiKF09vfoYPuiai7PWa8z7p+f8OzZGZeLLY5/+vRitcLJUxSVSBlYEOewO
hqssE3etQCElrRWkN47vL+nDIQvVCiNSsIU3j15VL0G/D4VJDckkPoiRjTAOpkRnFoktkMjOEau38+OJ4SlogMR6Rn+MAH8o4vTy3Vrntz1xBC6rr6PkFfF9OpF
ODw/7wDtKxwEbTq7XWbcf+uEy2XB6A2Lb6abl75/nZ7fQXw2gU2VeFrLKE6GGzzqryCtlvLvkoaOcBktBpOlopfIhzKCIvIJAD8L4LfLw78A4PP+8+cB/GJ5/Au
qelHVPwPwNQA/+cFvAmek0GCLiSjLPzAAm3NUg9KMwCIlXqqOnk1zRzt1A0R7GpyGNj/6GA2XizPPLAaeHltS8Udx2HF+No/p4NG63pJ64wYYsLS5X5vxxYnGnO
eTpxd85L173C2bzxt7NHCZPDXSSJ8ipaUR91Qmdo/Qm55GklMq7GePTnEqXWBGidSLih18h+SN6LWLchObIr936vqWRKZjnYLgYFc7I5WaZm1QluH7aiSwiLsGg
Joem977OCedO6NCRoM00IzKCK3iqd5xAgSJw9uaRYYb18YOTMvAsnQ8eXrBydnUNbrAzVZq0pBVqNeQBPYLdt1fADn2RhVtFiGiI5x8GMWRxwDYU2u9QD5sTfBz
AH4NwEfKYz+kqt8AAFX9hoj8oD/+wwD+fTnu6/7YTkTkVwD8CgDM3/+xsqM0F81w81rzekYdKeON3k49GXQZMS4jGxuo3tGUbl7MKG5bC3ygGUXrsG1iMfZQ39Y
lNu5G0kmIQmFQA+vk+YXtpVgLhHcn31nfCHtQXC7AWHJX8TQbXdJYNlyfexHbGT5wGlEjicjQ32/XyWOaW3GCMaUiqdxAHrsBybf2zkWCn8Nr1mvggW7/wMeCAi
1qsYSAOFZQ+xSXixMdTJ3NGUoAma1O6DyZ2xSUVEbGYRNQAGIUL+4XwLcqJuEBoAnSL93oXZmF6Tv/Hp8Dnp+78/ZIVbv6+5ehgUmxfOSKvjXLjLj/ms2MuJ+Lp
VL4JIn/PKmt9HSnLhe7l3bNDzJJNyRkZirG8iXygZGgiPwcgG+q6h9+0LF8ygsee9/dpaq/paqfUtVPTR99L9MFsbEhaSXSqS8+VSp6hEHkqBFhLByLE1hawPrb
5rAYcgRyWmMMCcgMPWrzyC0G38v0BY3fLhoTh9JMRMUjgapMP1w5tnXC9Wr0X+89veDp3QXnxeAPVGSm+pESuWKwdoimOSfM86Cho4JN1fC5QWQavD1QuncoEnw
svQb2uj1/9KnpDx3jpAlHUpuo2F1jlNphz3IIDRQpr6SNDAC8/ta3nLJitEgZvpzMXusBfyBgW+N8N3F+Ys0aHp2pGyOsAvHaYKAWPNrdLpPdX9PA0++54OnTC8
53K5bzZpGrIAHS7oDDaPFeKbVJYcQK2P+bAaIJg5FN0O4bZDMMYT0+xvFe4d8/TCT4UwB+XkQ+DeAOwEdF5HcA/IWIfNy95ccBfNOP/zqAHynP/wSAP/+gN4kVg
CMHy9kEIXW4iKepPnWRKQMCWkOoyeiC5aThANgNm5YeqQPnkAGE8ROBcbVp7jgGEDVHoz5CzkJ6NDouTphKICsbDpthrFj/ASxi1WuDPFWs6wwsG3qfcLksofTz
uWN7NkdKxFrhPt3JVMm4BBvQNbtrFSTNY+utPOTBbpIPukr/X8kb0WsF0GZFH06U6vqp7vR1M9iXCGKTIAC/3p4dEfjeAMwD/dogZ81soQvk6ZZ4VLGpJ47Dxci
m+EIkdZISv89Iz6U1Quti6IFJbTKKOtIRTOUx6wuUKFGBa7PExOFrpA0jY011ApwcUVZXpbynKNCsI9yeGwaWBs02ymk4b0aAQZ8l3nEe2MNlXiAfGAmq6mdV9R
Oq+qOwwvC/VdW/B+D3APyyH/bLAP6N//x7AH5JRM4i8mMAfhzAf/zA9/H6Ho0hL1xSzsNrKBq1sWim0BByFrJ8XqbENJjd4TPzbKkvZ3XJWWhrM22UrqafdpLYL
UaK8+y+TP3U0zATukKD5ArJGwEN6PczrvfWKlleZ8xzx+m8YTltRpl+1+MzZQlAMiIIDKBL0AtJTo4welweRNV8jAbSp1beFXlTeh3fqEdnQTTKelvLDEgWg83s
UABuaGQZdr3XFlGONIWcO+TJVuqK9loESkMR1PuApcST7wPh+F40OyZNZ+rnHNCphtQPOlcC8xsSbeATJnpt2O4XXJ4v2NYJbRo43W04nTdM5w6cPTyhXlO6ZL3
au9MyPPKLrjlKXdW+I110R5oQUSKN+XcZCb5M/jGA3xWRvw/gfwL4uwCgqn8sIr8L4L/DKk7/QFVfkZHzwzhwU1t8MZHyDbJt2IXtlwnTue/TVCDG3MZmrLfb4m
/LVNTHcrivYfPmxxAfx5usqAsg0mldG9pdTy/mitw4euRG1CAIBQQthQhhE2g3DsSKyZJpBLPIvHTM7pk3T9WJNeToXR1xkmuz+gjUlJa1FcIQmN42NaVlFMiUh
hAInmOB5Lzj8nr1GohxM2xTRjnnHnW2ZHpW9HvHu5byhLAONiv03u6PvjSvJ3rKvAoUDd0N4BiSEyW9GNoSSOA6Zb15ILMX6gjPYdbEpzIoqOBjj/4igvTHzOA3
TMu6WzDP9Z0dAC5TGDIGPOIjdrrhfUQJ0TQpHeK6UIn1d529w+zHtcvL471vywiq6h8A+AP/+f8A+NsvOe43APzGh39d+IXILzCLpbCLBwkkOjdgRaTo4X9XDQQ
7YKQE89IxYTgdP42lhemnU/fGhDUtxjDA9Om8YjltGLqgDp0zAhyrkVnyMWXBdwDt3KNrHZ9FYB5tGamYxBz6/PAYgvvL4g2brGeS8y26efW7oX7QQ9baIVOTCq
Hh30uqvqsDvqM28LH0Op7Hxsi5O5UUIqJnQ0In+MRIZi5Y9nPDkaoyBWSpRPymJxO142h1CLrvuFZYael0t2ak6Sm4ZVH+flV3vf6WWFQ1809ny0xEASyesVxaZ
Dps8PTNNjiSOiwyG5Xcc+NwFj1pNDGiI+zvp0W/g1CBzZNJ96n5yOPapQXO8EVyExMjBDlzskL8Q7Gbawujndrea4YxMsQaizu3GDNzGAsWryvyC1Jgu19wenqN
OmCj8rCL242NRoAYdM+B9XwddtoqaDO8ejVQqlBYI6U75gkC6PPZEO6z4nI5o527YavOKwD4cLwZ7HGdrHZDo78UYxhpN3YedSdUtnoskMVvRpmHvFZhw09ZFlk
sBA8caiskul4OwpA0Rs0Vi5G7O0G95tY4ck8GqWmhxJ88i1GvZ3MHjrT9FEUwlFNHamQYmFxko4TpseZxes0sjtkPBjCuC/SuYzp1LHdl/n92rkPH0iqDNd5is0
d2zQyj+B90Yt0PUVtUh4Bpc5otvydZOwyy1hfITRjB6Mg2APDRoq2xwVo8IQKYyc5shQCEd3Gq8KSzGkbtw2P8NYaToBqYdEDhKz7XGSIbTucV63WOSZFd8dcN8
C7C4uvzuGpwOEQuCllcYTnqQ8++NRs8H5aec2Y59jWMFsY26n8PU5hrgTfE/Kemd2e6vJVIUZBsM4e8Vonl64AxNZ9HRG1ja7Edzg5GEpoyMGAKqn4AENebwYP2
ZnU01sS6oKMlLNTvLcO+DqAZy9IKh7YQZsWyCtX5IXSKGdHagrqeDYncIqfvmz4Rx9SOaWAM4x/Ua4OcRuImK1KBmZM6LdZWjN+WYGidLUNMQ4HdcUyda1r8Irk
Zrc/Zxz0fH5sexAoCdlHF6yE0QDG65l8GWTKYamfqXJsklvoSKsNZYsDS481njAFk7cXPsc3DLhwnRxj9icZ57phZSKkF+Nwn0sMCwIApymrYRRulszE+gadHNY
KjBw6oQYkMgSx277y7vx9BqYHNRE6RHPJaRYHk8JvVGJkHomSi3XGmdLQ0gLymMVaGrNu6YRxdcsaeTlHsnjEUhUWKEQyIGdnuzT9hU4bp+q4hg5It+HsTj0t6f
imRGvWZrzOstifeRZZrs0EAz+Ta083+r6s2BbvF6VAYM1L9bGyQTH6sIlhmRKUQr5Zz/wC1vg0j6BeScJhKNzSV7mhEfm7sOPoTG7TmkfsTrg5ZcajAct52kWPQ
d41mm+58xnJsEnPD5CAEkCNMCozLZEy7fAzIFIL/1y+eHrucawyur82iNxanvYsY0AJnHI4JkYak0xK1Dp0b+jCI/L0uoKFBpFdkWlOxYUdj5FFEmDpuYszKQDQ
EtFwjedjU4jgjH6sODSiNQdd7YlPX5pCuFkzo2jkHb/fV6Ekjl2B72bMUUYfr7112DDNaz6meJ//G6Mx1L+j6VxsDDb5NN6TW2R3x+vCorpKmCs9BkZFhN2Ooi9
p2On9PzgzfPouM6K74K1O3L0u8RjpKROfEo4an0uiaxpdJrwVTjn6djMLKq8M0sqMLpmXYJrBK2x9FYzNafSMFkkDM7RhI1euMweZBeIAbwIhkgSwgC4BW0h9Bp
qZeaI5drgpbOVAouyJqI5xl0TR0iignYHgKMjusYirPVT+f2cOLKILjMIKPKazVAna9CFmK5oMaYNkRDu8T/o26wpfiGGgvkXxz6BgcHrM2NBKKFBjNrtPLnwN0
j4yoaoRYUQYeecX2t9pQETXr4psOjekFkZbj+RR1Uq2OeMCwgRXBAEREmd1gYHhUGOkuu8TFYMaOkffPXeRX+/I/vVmJ2ghxfWx2EJwsnkZ6jYweRVtGaTRITGn
H1oxpBoCOFgzU/fnkLNEGGm2i2JgairHjQo2O35aqA32TTGGGIzuJWRTzylxsYwBpT5cXt4oshEfqUT48UwjWCB0iINPA8nQ1KiYV40gkVMYHw3epCJA3mIO3d0
wxDQbPmIkPRBph4DCCjyACK7OMuSVGELAMgIaQNeZLg9RdL5skmF0RbNO7iQpQ/zvGmCyrWHzG3k9ALw3aTC9x1zNd5lw5X4+6WZshCs9UsE8xmYpGQw6lY4x9Z
jIQbC66wmrbT3pgenVIcGLaCSNJU906avM63zALnKBoP6faDX7ewvjJ2I+yvkhuxgjyYsQQeNMdeYVFiAUM3cQofWJELQ0ogELgCMcBis1aNg168b41Z7gww6fq
WL9BXjZJunsaHzceMjuWa2vAqUMmpBE/uaedsOuWBcqfnonKRHKDIcDQqPXpaFgZafp3EApXpwh2TQ5PO2jQWFSvs5oVFF0hMkdN8FGEZCAgthQoQHVA7rrVCgP
2gYzweW0FOf9arlmwRFOvmIH0hvlus3rk2RsQk2RGMUqWMQ9z7EQK8Hx5ng8njxR7tMHuw/o9syFAzpHqdoQh4zbGwKrWl9F8XJD3XJSAGNUFVEeMkJWoi1N2vm
XIdz87/MbEP2gscVbsO79+AeL3rQGz+lKafDy2w3lNJbbDAc7TB6sXUtyAhof2iNKYnck/aN96Yy2O39qQrEEyramwgdqooNFEPjfSIBaUK0xFULypfzave9ob+
ntVHCBghJKA1w01bz7WZ+jlGUUytZ706A4/kihQSINLitlg3eJa51NkGsqGG5Alk4ZCnKsxhZKv6286rLmXKTDMOfa8H5gSh7MXZIOMerNaBEmgcjJPtzRCbLZR
Smc2GiQ+26sV71fujeAbZLOFas5jo/4IYPLXZu/gNOL75HM4Qxwp9CuSnNvR+ocOZZQ5XGIH/UNbKG/EkkG8ALh3K8cqAN+VmpRcEh1dEUVfpyBTCDJLPx+uEhx
92tUK4/9ifM076t6weCoQn49GrdQ/c4aynF81pD2fk51Ef+wF2Ce96/voMGoi/roX1hwlPT4j2iMQfBRpkmQgWm5wllMwJCjPiI0NGrnaIKkRmut2GM+oN6pHdx
oRlkyMBDVTVCCc/8NRUzTd7fgNgwaEgYwubIVZKbJx4bofDYl4T+Tfeb4kCOZ9UzMZLSk3YONxbLyQ/9JRGHK1f/bRHhjPV+j27RhBRezjHU6/wwveFjNaraSmQ
IkagaxfMC12hZFzBzdlGYmCteUDWAoEoYICmE8bplNPEHZtytCjenRm6wZHpBU7g0ehh63eKOp/VFTNx0tHLeeOscdRMcpk+ss66loeD1gM0rNXoznpjr+N1+CQ
NyARjZdrGh3f1EsyTide8MFrnHKpua61bILgu7TfbcyznXriRAXBSKMvygBCN91oVeOrjL6QuFTqOMs8/MfnTEiIDY2Xfw/BeA7X4ZbjbwF78b/J6kwxBSuY0B2
NOmCQsl79+a/Yn3MbRtC7W6OmDGoXSYd4O53GCKVAa52vXbeVDRK+9NZicXTsYOheFAZ8ObRDYlyJbOexYj5vheQVzvxcPDoyzaE3DOPNVZYFuxjejp6wdrOL14
1/A1kvpBcHdpgwAFlX4cfmd1TxXzVdYu2StfMtFe2QRxBGe4zqgXBSdcwzop3K9szrCGSE3yXSVF2TcTzeg7o0JO6boH5zHY25fNfDMJDALrJDl0w3IwtCOlj/3
aisvFlZ0lrpktHbVIxbKRfpXY/vINheBvZdY+B9G+Tep7PVifv9I11sbvgVEyO3YQSBjOSKQWvONBG1NCoJGTNqN7OmCjXcbjlTyV3GbRm+qlByOqV0esn20t0w
j9Vngx2OwAKtXqdkrqEBLOcZ0SGNGCM7RqxMh5t59agTVhlIHKFHhfu6H5x5urznaWSNJYwePDXWTHeAHCuaU0EPec3ysBFFLF5Ni9mdrcfxGOrQJmZouqd9PHx
gXxNkyaUpsLZMrwmedrKSuE9Yay/TUGEIpbwudcifJyWbilE2h6mgRmpAEJ4GyUF3Ony+jkeRfI2d3gp2s8V67gGvkc2jQ+cS3JEG+/c5TvpKJ38bRtAjF+0tQn
R2rxjV6ZDg7GNbvRJDktwgAKesVbi31YuBQ7X7pq0aMa4GlSGAdEemunEHrH3pbcr3ivNgB9bPM+YqWc8ZSD7BZTgFUYFC8FyB3PMRHe/yd0+dzXNqbvAKCiE3p
ARg87utUQivOAva0XHEkQ4/knQ2I6K2B7uui6eDNID1GhRMXG4HdCBxGAkECUZkQwGHSv2PqSfXpzB4AIi6iGZhaTBEo2+T/Tgm71d2k2Hp8TjvIzfW8yI19amO
wKQ2ZPOCxq55JEmjV2vwzVPi55bZBXzIo75d3dE/t7HJ4JWW7jaMIMNrv8kBNy4exoaScHKEXqB6KgB6dSqrnhctjGKBDkzeJa4M0GPN/Sbb1bZ+yaRoT7bAJva
rd41pgPlewN6bAmmEWK+gcX/IA8ify7hRdIyBfceW78ebiAtxuNNVJTvBjBwK+Dreu8JmGHiXnw95vZKNO+TNWlJJMgXtjMyu4TaSfQb2ewCU3ajGewRzc0ZF6m
s9SbxAvC2NiE1XIfWGhqfqGpCpOMsvPIb/Cyzac4PFhoZOmuBnwmSQryEV+hWfcZ+d6N3Y8QQ21hG5kJLBg9q/mGnm81+h27dhBN34STFWAOwmBzLScq+1Iyzom
craA+75GB1pRmFMackNWCNNqM1i2trCUofstgcCgG2Ya7DONDuv9LRceQns5zDrDUDIQ/WGvDhUwDrdUceo6jxk7SbT4A+xZTiMNmBek3ObkVpUpYUrqiup1u/+
kNcrdDq849jUAtLglSJ/XGsCqvl8wpn4Ggq7fu7UAwVBY8s699p8VaZkhFgNHLvPsk9zo57s51Drx8H1x9fxTIO1QHGd4+gaU9hxHmiXYjRrGUmQ3IBudGM0z+8
5iy4Rm+QsjW6lWYi8R2Z9JY0WcCtGENgvk2YRlvgnwAwg01B/XBW+Z6Hl2NAqZRjdv3waQqTHZEe3nbqh9N3I7Igb/MvkBjhj4kWO6PHClNZ+1HGovB7iQ2BTHB
QCP1155N7PnywiDftCOi9u3RHLG2kePpzfsoYI7Ot87iF33pbnwb+3VyvLId+ZBA6QWQ3LJWyKELNJHTyNSIXF63o5k66pZ4E8kJgQ0qobrAtT/0/5O1g6AtIYe
1kpxi15zzAbaZb2ErsXxAauWzSKShZsICY/6OC5KKm/NxAEDEAQMcSi9EmjSRI67DVzGYKxKHYMMTTWnBQJs+EO/iGzehFRffuKLyJ/CeArb/s8XiLfD+B/v+2T
eIk8xrn9VVX9gdf8mu+sHLr9HcljndcLdftWxua+oqqfetsn8SIRkf90nNsh34Ucuv1typs+r5tJhw855JBD3oYcRvCQQw55p+VWjOBvve0TeIUc53bIdyO3fI1
u9dze6HndRGPkkEMOOeRtya1Egoccccsghb0UOI3jIIYe80/LWjaCI/IyIfEVEviYin3nD7/0jIvLvROTLIvLHIvKr/vj3icjvi8hX/f/vLc/5rJ/rV0Tkp9/AOU
4i8kci8sVbO7dDXi5vU6/9/W9at29Kr1X1rf2DTf79CYC/BuAE4L8C+OQbfP+PA/gb/vNHAPwPAJ8E8JsAPuOPfwbAP/GfP+nneAbwY37u0yOf4z8C8C8BfNF/v
5lzO/699Jq9Vb32c7hp3b4lvX7bkeBPAviaqv6pql4BfAHAL7ypN1fVb6jqf/af/xLAlwH8sJ/D5/2wzwP4Rf/5FwB8QVUvqvpnAL7mn+FRREQ+AeBnAfx2efgm

zu2QV8pb1WvgtnX71vT6bRvBHwbwv8rvX/fH3riIyI8C+OsA/gOAH1LVbwCmTAB+0A970+f7OQC/hj2n8K2c2yEvl5u6Fjeo25/DDen12zaCLyK4eeOYHRH5HgD
/CsA/VNX/+6pDX/DYo5yviPwcgG+q6h9+2Ke84LED//R25Gauxa3p9i3q9dueHf46gB8pv38CwJ+/yRMQkQWmJP9CVf+1P/wXIvJxVf2GiHwcwDf98Td5vj8F4O
dF5NMA7gB8VER+50bO7ZBXy01cixvV7dvT6zdZrH1BcXQG8KewgicLyD/xBt9fAPxzAJ978Pg/xb5I+5v+809gX6T9U7yB5gOAv4UsIN/UuR3/Xni93qpe+zncv
G7fil7fgsJ8Gta5+hMAv/6G3/tvwkLr/wbgv/i/TwP4KwC+BOCr/v/3lef8up/rVwD8nTd0nlVZburcjn8vvWZvTa/9/W9et29Fr4+xuUMOOeSdlrfdGDnkkEMO
eatyGMFDDjnknZbDCB5yyCHvtBxG8JBDDnmn5TCChxxyyDsthxE85JBD3mk5jOAhhxzyTsv/A7Az9aZO888FAAAAAElFTkSuQmCC\n",
      "text/plain": [
       "<Figure size 432x288 with 4 Axes>"
      ]
     },
     "metadata": {
      "needs_background": "light"
     },
     "output_type": "display_data"
    }
   ],
   "source": [
    "Y1 = dctn(X, type=1)\n",
    "Y2 = dctn(X, type=2)\n",
    "Y3 = dctn(X, type=3)\n",
    "Y4 = dctn(X, type=4)\n",
    "freq_db_1 = 20*np.log10(abs(Y1))\n",
    "freq_db_2 = 20*np.log10(abs(Y2))\n",
    "freq_db_3 = 20*np.log10(abs(Y3))\n",
    "freq_db_4 = 20*np.log10(abs(Y4))\n",
    "\n",
    "plt.subplot(221).imshow(freq_db_1)\n",
    "plt.subplot(222).imshow(freq_db_2)\n",
    "plt.subplot(223).imshow(freq_db_3)\n",
    "plt.subplot(224).imshow(freq_db_4)\n",
    "plt.show()"
   ]
  },
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "# Compactarea energiei. Compresie.\n",
    "\n",
    "Putem profita de proprietatea compresiei energiei prin anularea frecvenČelor DCT ĂŽncepĂ˘nd cu *bin*-ul `k` dupĂ care aplicĂm transformata DCT inversĂ (similar cu tema anterioarĂ):"
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 6,
   "metadata": {},
   "outputs": [
    {
     "data": {
      "image/png":
"iVBORw0KGgoAAAANSUhEUgAAAAQYAAAD8CAYAAACVSwr3AAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjMuMywgaHR0cHM6Ly9tYXRwbG90bG
liLm9yZy/Il7ecAAAACXBIWXMAAAsTAAALEwEAmpwYAADbMklEQVR4nOz9WYxs23YdiI0dTWZGHxmRTWR/2nvObV9HvMdHUoBgWrBQJVmGAAksw4YMEOCPDNmAA
ZPyT/2IAP0j2IDtD8IumAVblgg3EFEomRJpklKJFKki373v3Xeb0+bJPjL6PiMyIrY/8oyZY6/ckSfPE68qH3AXcJB5InfsvfZq5hxzzGZ5vu/j6/Z1+7p93bRF
/rvuwNft6/Z1u33ta8Hwdfu6fd2utK8Fw9ft6/Z1u9K+Fgxft6/b1+1K+1owfN2+bl+3K+1rwfB1+7p93a60r0wweJ731z3P+9LzvGee5/3aV/Wcr9vX7ev2l9+
8ryKOwfO8KIAnAP4agAMA/x7Af+b7/md/6Q/7un3dvm5/6e2rQgzfBfDM9/0Xvu+PAPxTAH/rK3rW1+3r9nX7S26xr+i+GwD25f8HAL436+KFhQU/nU5f+dz3fX
ied6MHep6H69AP7/M29/zLav+xnzerzerHZDK58pnv+4hEIoHxmk6nGI1GNs6+72MymcDzPMzNzSEajWI8HuP8/BzRaNS+P51OAQCRSMTu4/s+YrGY3Wc6nSISi
cDzPHieh/F4DACIRqP2Hc/zEI1G7fv6Hb4f1wGfyX5om06nmEwmiMViiEQidr/rGu+n6+i6/7PF43HE4/HA+nS/w89m3eMvqx0fH1d931++ybVflWAIe7PAyHue
9ysAfgUAUqkU/ubf/Js2MJxIThonzvO8wGLloghb2HofXZi6eABcWRDupLiL6iZN7/E2Aum6v7vvwsaN47aw5/HdtU2nU/R6vSvf5+aeTqdIJpOYTqfodrvY39/
HeDxGv983QRGLxbCysoJ4PI5Op4N2u42FhQWbq/Pzc8TjcSQSCfi+j16vh/F4jFQqBeBCME2nUyQSCcTjcUSjUVSrVUSjUczNzQEAxuMxYrEYstkszs/P0e/3MR
wOkUwmbT49z0MymTThNBgMkEgkUCgUkEqlMJlMbL77/T7Oz8+RTCaxsLCA4XCI8/NzGyPek2twMpnYP44h110kErF/ulYpMBcXF7G0tGR94D04d7rufd+/Mnd6P
/0bf3e/EybkPM/DP/pH/+hV6GIJaV+VYDgAsCX/3wRwpBf4vv+bAH4TAJaWlnzg6sZQKR222V7fZ2YnqFGA4AYPk9RhiONtJLc7ae79wjbp22gIFQg3EVZh4xX2
HFcY81mRSMQ20nQ6tc3GRXh2dmZ9mk6naLfbAIDhcIjJZIJ+v39lPM7OzuD7PkajEabTKVqtVmB+9JnD4RCxWAyj0cj6NTc3ZwLp7OzMnsP30M0zmUxwdnYWQB5
zc3O22ZPJJJrNJgaDAWKxGObn5wFcRU+8L9ENN340GjWlxDFSlMVx7fV6hrI8z8PCwkIA9ejanqU83A0fJgRm7Y+ftH1VguHfA3joed5dAIcAfgnA//i6L+jLcN
A4AYSDnOQwJBGNRgMQUu/FRcd7hkFQtw+z+ngTcwUIn0Rts4SRNnez6nNc1HOd4OGCDRNGCqNd4UNNPhgMEIlEbJOOx2PbEJ7nYTqdmiBw54DPPT8/t+9wHhXuA
8DZ2VlA6/I63mc8HqPb7QK4EEDsC+8RjUZxdnZ2pY/NZhORSAQrKyuIxWKYTCaIRCLIZrPodrvodrvIZrOYn583wcZGk4N9iMfj9i6xWMzMnvPzc4zHYywsLCAW
i9n65DhWKhVMJhOsrKwgk8nY+3Bt6lxwreo8cR51Pagy0rnl/fQe7r54U/tKBIPv+2PP8/7nAH4XQBTAf+H7/o9v+n2VonwpfTF3kwBXJb1uKncDzoLfer/rtOub+q7X/oeYD+5kuhN+3T3C0Ip+5v6dwpWbBrgc0+FwiIWFBZyfn9vn1Hru/XSha5tMJraJOR/UunxXVQguAiNq4TPDUB9RAn+nkBqNRqjX64jH4ygWi3b93NwcEo
kEOp0OOp0Ostks4vF44N11k6q5QKFJkxaACc5EImGKiv0fjUaoVqvW/3Q6fUWAvGmetLnrNOw7s8zlm7SvCjHA9/3/GsB//RbXByaAi4YDp5rf1TRhHIML6bngr
+MYXBJL+zbr/i5cdv+u97jOHOL/Z3EJrsZ/k+BxNY9er3ap+/66QInUptMpotGoCQYAZvuHNfcdwpBamB3NjeaOBa8PUwh6HTcrn83Po9GobcxoNIp8Pm+afn5+
HpPJBN1u1wRFLBazNcMNzudMp1PMzc0ZSuBz9DMASCaTAZOBQqBer2M6naJUKiGbzZow1v66620Wx6B/d4Wo297WvPjKBMPbNnfD6mafBanDBII7uK6pwXvMMiP
eBO/Z3mQihL3frOaaUWGNC8fVLje5p/7fNSeo/VwEACBgxlFj095WweB+703CSze5Luo3jcN1cJgIJGytcFOenZ2hVqshHo+DXjDP86AeMW5ifp/jrX2ORCJ2DX
mXaDSKVCqFXq9n5GgikQgINwqBZrNp98vlcjb2KhhnCXL20VVMaiq7iO1WIYafpCka0JfkYnRNCl7nbnwdWEUavN51jbnf0ftqCxMab9qgswTFm96f/2fTd3cJq
7BnuK5Gt/8uxzDLBJqfn4fv+0b6+b5vHgey626/w8Yg7P861y56COMq9Du8TiG/9psIUcnCubk5nJ+fo9VqIR6PY2FhwdBQOp3GeDy250ajUczPz5tpwmfruJJj
UORA4UDCMZVKmUDgdyaTCRqNhs1pPp+3a5TT0LGZpbBUMPAZ7li+aX7C2q0SDK6JAMAGi01fUheLaxMqHNZ7U4i4LUwaz7rmOkQwS1PfpCkq0D5rc1lvdyHws1m
QU3/nxuICdxefaiIufuACJp+dnWE4HGJubg7z8/O2QSKRCBYWFuD7viEM3XB0S/JdPO+C2Vf+gn9TZES47QpCFWi6TsgV6HsTIY1GI3S73QCpHYvFTHMTQc3Nzc
HzPCM0db3p+uK78nvpdBrdbteQQzKZDKAObuJWq2Wf5fN5zM3NBbgLXReuKaHmFt8rjG9weZCbtlslGLTpQIS5dvQ6hdhh9wnT8m+CV2/iGN62zep/WLsOOdzU1
NHr+fywPgGXm+g6c4obl5q02+1aDAO/f35+jrm5OYt7GAwGgc1H8nFhYcG0Zzwex3A4tFgKCqpYLIZUKmW2e7vdts3H7/Ia3/fR6XQCwotjxmedn59jNBrZ2J6d
nSEWiyGXywWEmG5gkq6+f+E+nYW+qOFJjkYiEWQyGfR6PfPWpNNpGwf2n+9FgVkoFEw4hKGoMEGvyE/7H7YG3qbdCsGgpJdKfjUT+H91zRVhkDDSptpFB2wWyaX
feVO7TmPPesebtLchHa8TErMQgHsPJXSVKHOfTWhM3oGbYG5uzhY5cCFklPSjFqaAoH1OjUx47xJ18XgcmUwGCwsLGAwG6Ha7pmnZr3Q6jVwuh/F4bJCfAow8SD

abhed5aLVaFtfAmAXVpGq6xGIxnJ+fW2wGTQ4iIo6JCnA1K4gcEomEIZRer2fEJsea5kO327XnF4tFI0T5DJ2fsI3P67h2XbOaiOJt2q0QDNctXuDSPQaEB/dcp
w3D/n6djX6TDfw2vMF/SJuFgPSn9ieMJ3G/pwtG4bmrDdm4oEajkQlptYVJQrpEn+uB4DU0OxgTEIlELOKQ2lTRBIWOCncKmUQicUXDKvmWSqUMvah55nmeEZDz
8/MmTHQD8VntdvtKBKaOpcJ7CofRaGRrVpHDdDpFOp22MaQQpHDgfCwvL1swVpg3bhZyZp/C5v1t1+utqcdA1psDykXn2rj6goSTAALhrrpRdHFy0aj/3B1Q/e4
sNPCmv/+HNDfgZZYZ5ZKR2i++j/bX5SUUmbn2Kpu60jTYiPPEvqq7zX0++6+Cg8+iC5RoRNEAUYVrZvD+jFYcj8cYDAbGDWg/FhYWAMCewe9xoyeTScTjcQvx5j
hzndFMIRdA0tXlgFyzgqYV+8KwawZoESHxGgq6wWCAcrmMcrmMs7OzgLbn2nXXnl6jvysf4+6bm7RbIRjcTarBKUB4IgxwFRLzs1n8QNgGCRswFRL63Z9UGPyHC
JGbuCb5jLBnzTIngKtkqous1I2mm4Bkot5HNbVqUX5PSUUKAMYXqPCg0CayGI1G5hLUiEkNYaY21gAqjUDs9/sWYMVNOz8/b2N7dnaGTqdjPAI/TyQSSCaT5smY
TqcW0hw2tnwHRVJEQ5lMBolEAqPRyPqjfAbX+NnZGU5OTlAuly3i1DUfwtCCjrk7/z/Runvrb3xFjQuFg6ABJIR+6vYhFNYw6TATQW01Dh4XIjB7w7s2vV6r9//
LHgOF4a6bVZ+nf3P7rO8zSwi6iyXsfTgXhMbApf3N3xXdKBfkal/CZs4D0SA3jqsECKU1qEptbKIBejQ4boTz9AQAsI2oSoNuRNr/Z2dn6Pf7AVMBgAmHs7MztN
tt87qECUF9d0UOHLtkMolUKmXIwRUOnNPRaITT01OUy2X0+33bG7omXeWl60Q9OmqCvU27NRyDehXcYBudVA015e9hL82J0gHl57MQBf9+HedwneSe1YebNrVvw
9DNdf0I628Y36ACYzQaBbSs23cKKhW+mo/AdGJCeNcN7MZh8Pq5ubnAd4lC+B0qAfYRuLTtSWiqi1TNSCIOeiPG4zGGw6FtVuAiapOaX0nJXq9nsQh8fiQSQTqd
NuRB3mBubs7u62prNSsA2DjTfPF93zY8vRWcawpGCgdyDplM5opi5Ly6JqKaDi7RftN2axADcOmrJkJgjj//5kpm5Qv49zCt55oZLjx3JfCbUMRNBvq6v1/nU57
VN7fpZggTGipYZyEhxiLoNW7f6LbjNQrptZ4CEIwdcO+hgn9+fj5Qu4Hzp2iBm0DjGygYyO4DwGAwsGewL/Pz8+al6nQ6xj9Q4GSzWTMzmJQFXMD+TqcT8HxxTO
gh6XQ66Ha7hghmrQ+Xc1DhR+SgiIjPI7pgslalUsHx8THa7bYJDn2mxjHos12O4W3brUAMqp2Aq4veDVHlwKj0dJNW2FztH7ZpwmzFMLv7J7HV2MJIq7BrbvpML
pDrEJP7Du7/w3iCsHgQam0uQDdoRgWuvh8XssZAAJeuPQocfocogPa/kmgaEaj8AtO/1YxIJBImbLrd7pWYENaBODs7CwQvER2lUinE43H7G9FQJpMxYUJS0fO8
QGq4jjXHyfVWxONxJJNJ41cYYMX51ACr8/Nz1Ot1m59cLmd9ncXrEIGErYGbtlshGIBLAUCNpFrGtWXZ1C4N2+DA5YC4sQp8pjuA/Pub0MEsbT3rszc1fb9ZfIn
e+zrUMkuLaSORpvdXgahxBcr1qNmgHiFFHOPxOGDCUQNz8etGYV+AS48BNXtYNCTNhEgkYgVf1IwgB8D78+/sK00Iz/OMe1BBNzc3h6WlJXieh0ajYcKLmzWbza
LZbKLT6ZhJo2s2bB7UBArb+MrfuNGXRA5hIdSukHa9F2EI5qbtVggGDhZwGaykNpLm3HMAVJC4ixq4KgjC7Hf+TdtN7bE3bUpFCHyPsOZe57r8bsoxuL+7f9f/c
/PS1tecBxUMjFbUjU0PAceJi1j97tPpReATNaRrJrgbX+sSKGnHYiw0N7g2CM0Hg0FgbslfsC8MHJpMJoZCUqmUjTm9GTr+rLQEwMKW3WIx6XQa7XYbrVbLQpn5
Hu446xwyipPj4rrb+Y5cuxSwFA7NZtP6u7i4iHg8HvAa8b1UUHMt/FRzDAACi1Sz+4BwG05trJtAahcJXAeveR3bLNjuPuc/pIX11W1c7GHvooLS7T//r4KUC9P
tv0Jr3XgaDwAgsPGV+KJbUouaALBISX6PngmaGRrUxA3EDUK0wL+rGcE1QnhPMlH7Ho/HzQwZDAaBaE7gQhguL1+WREylUhaQpIpqYWEB2WwW4/EYrVYL5+fnpu
3D0JqOL9c1x45jqRmgDN3WQCgKy1arhaOjI9RqNYvEVAHkKj63HzdttwIxKLxUhABcIgggSE5y8jkwlJ6zbCodPJd34E8VMHof91q2MDOEzUUIYaZQ2DiELSZXS
Oh4ue/q2vtuPzluvK+OtY5tmGAALv3yahPr9epa4+ZXKM/n66YGLus7EOq7MJ/fJ6s/GAxmuikBWA1HfTafMZlM0Ol0Ah6ZSOSiolM2mw2YNplMxnIatFE4tNtt
dDod5HK5QB2HMESn5CH7zvFTL8x4PDayk/3lPphMJlfyK2g6KepQgfimdRfWboVg0ObaSxqdFwaJXRMhTFq6G1uFQ5jtrn2Z1d4Wnl03MWGIKKwvugnDkE6YQOB
3eT03G5vmKahQoJB0iTU1+dz3Yh8Imfl37ddwOEQ8HrdajTp/sVjMNoMKDn6fZsRkMrFoR0WOSlr2+30bM3JUDI8eDodmpmgfWfqNn5EUZD6GW19S78fgKTd2Qe
eBjWOnwoEClUll3W7XUA7nQtFGt9vF8fExJpMJlpeXrdCujpkiuLdFs7dCMKjm4strPT1KYA2AAoKcAycRuLqx3AFy0YPbZg3imwhJbapB3wY9qHBzvSduXIDbl
+tMJtqeagfzOVyMYc8gM6+kGL+r/9d3Ux8/tR37NhgMrCozNSTnkXDcDXNmi8fjdk/2i+vC930LkQZwRfDQRAEuhI5mYtI8KBQKV+aP983n84Hncm4190E3t3pm
dA4V8pM7UHOI2ZyMxkyn0xYMxjVMYdHr9XB6egrf97G0tBQwo9x1fp2LPKzdCsGgKMFFADQVOEmq6cM0qN7Thfph/MHbRIX9JAjBJRbdz8LuG2Y68POw7ylqcBE
VcFlvkQiAZByvUROMHgcKYzdHAsAVoR0mkElcjsdjq7/AOWT8AjkI9oUbimHQRDf8OyMVNSqWZgQFku9fpEi7ykIrTmkkJ++7uLhoWZT6uUYtTiYT1Gq1gCkWjV
5UbnJTvkm+hs2vzg/5Eo3Q5Qbv9XqWJ6Lnduh7kUeZTCZYXV1FMpk0k4P3u46vmtVujWDQFF3XNqUU5qAQTulCVQ8FcNUFpwOk8Q/67yYEZFjfb9LCkIMblanPd
gWa+7maHwod3fehr1zvzboJXNgksXgvEmEacq4miEY4qkeC76neCH6mDDv/xjmmRmRfiBb4vuquHo1GZmboM3kPz7ssU0/vCM0M3/ctoUo3t+d5KJVKAQKVz9No
w3Q6jcnkovoSkZBCfNr5/B4Rgc6frkOue3ceiRyAC4TFzU/iVcvJRaNR9Ho9uyerULt9cZHdm9qtEAwKpdS+1X/qMuMA8oXdfAnXVuczuGF0Q6q2ZLvpZv9JOQY
X1ikKCjML9P8qMFRD6U9ugOFwiNFoFMhSVRShv3PDAlddlSpQw/qmoem0ufV64DKkWTeuhjmri47fJ3rhZqFwcqMlyWtwrZA/YD81gtYVCsCF9yGXy9mY6DpSrR
6Px80bQQIwbB7Yd/INYQFQOu+q6PiOkUjEeIN+v2+mkXplOPbAhXl0enpq88US9Yoc3qbdCsEABM8HcP27bhAIFyElpsIrd2OpkFHTxEUHYRvwOm0e1pRXAGaXZ
lNTSFsYSuD9XCTgBv3wO9xYdMcBsBJlXIix2MVBLtRK+n3ebzKZBNAGkQDnSOdM+YYwYe6OF4OGuHk4DtwYmk3JDc+6C+7YUTBQYbguTgABm18hP9vy8nLonLpj
RkFEvqHT6QTmXX8fDAaYn5+3/rtkrGsO69p1hQOFnQoHohEVLKyEPZlMrAo1hcPbtlshGAgFOSAsGQZclhIDLktn6eagRHdNB93wihL0e3w2rwvbrGFaPExoAOG
8gj5D76kCRBel2wc3MUkhNgUcFztJNbLk0WjUNr/eH7hEDLopFRbTDOHC0sWv5KhCYRKYHGOaGRTGaq7wmXQv8j34jhwHbhgVhC4a0foH5Bco5KhoKGhcAnZ+ft
5iF1yPjvZXBSaPnZtMLk/CcoUDTZ58Ph8I4da5Vu6M/3dd85FIMIQ7DDlQSXqeZyHUbLlczszwt2m3QjAAl4d/UmPwhWnzal09bgouZlYCcjeVa5frglYTwv37T
ciatzEjtLkmk9vCOAb3ua5Q4D/69mOxGJLJJBKJBOBn5wOaX+/B9+Tmd00sblQdM3eDq++ei9nlI7jgiSx4fyCYiKUp1oxR0ZwQbkxucg2x5qbTpCQqHBVWij6p
/cPSqHUudN4AGHlL4TAcDgMkOXAhcJrNJtrttkUp6n11nl0OgmOqY07hwDRx4DLmQ4UmkVOj0bB7skT927RbIRgoealdyA5zAYxGI4xGI3M5cRGoXan2KBeRu9F
dU0IJHyAYzuxOHFuYxA9rLkqYJRBc88TVWop4tC8M4HHZdSbozM/PmyalqaUcCzcJNx8FLAUyEYCaB2HjSqGiQkFRgQoO1ZAURGx8LseBG18Fleu5otDh5+wDhQ
qfr+tM6zZ63kXsgs6RulbVtNL3Zx8SiQTy+Tzq9XogCnE6nVqS1GAwQLvdRjabDYSJu2vCnWtFglwXKhwUOXieF0AOkchFNCk9KOPxOOCKvUm7FYKBg9nv961kl
xb14IuqNwG4ZKzVk6EbyyXqdPDdBQ682RtxU5TgcgyzEMIsziKMX1ANQpg6HA4xPz+PVCoFz/PMVcWxU40T1r/RaBQ4LZrCgXA7zFWp2lc3LRe7+1P/ruOtLjei
EzVjlLxTWK3jokINgK2R8XhswU5s6rJlS6VSyOfzgbnSOVEFoZtXFYJ6Kmi+cc7y+Tx837c6D5rurQLG5Z24rvlOuo5oerlmBYW9xlNMJpeH27wJAbvtVgiGVCq
Fe/fuoV6vo9vtWkkrAKb5eOCoZu4xao+TwcUaRlC5zLkKB5fwc/mJWShhFloI+/w6lOB+l4tFCSmy6aPRyFj7SOTCDcdNoHawam/2WWGnIhSOx3A4RCqVCqAwNt
rn8/PzAbuYzRXKmt/AuaI2VFOO86EIgkJE+R8dOyIC1eA0LdXeVsFDyM//RyIRLC8vm/AJ2zhhCkORJ++TTqet/JvyCNFoFLlcDtPp1M6xoBDXcvSu8NZ1q2PPd
6O3gvUwfd8PpJpzztlH9aDctN0KwbCwsICf+ZmfwenpKY6Pj3F6eopWq2UDQhJNC2PogiNJpdoDCNe82ty/hbHFbgsb4FkmRRjpyHYdv6B+eyXM6IP3vIuaAwsL
CwYl2TfXXp31fNempneH6IwJRjqGvN7laBQ96DM4H0QYyieQn2C/dX4YDalzoXECFFBhiNDdmOyfmhrkHpaWlgKek1lzzr8pEtSNx7Dp6XRqngo+d25uDvl8HrV
aDa1Wy9ayuhzdcdOm46BkO5FeGHLQ+eG8urkeb2q3QjBMJhNLYCmVSqhUKiiXy2g2m6jX6+j3++h2u1hYWAi4rcg3nJ+f4+zsLHCmgaIAtTt1AYYtehUSbGEbXz
fddX/jfRUluM/XRalan+gAgLm+FCXoxnIJLX2GajjtI0lLLihCUGb4qYmmWo3jSVisnIHbD7X7eb2iCTVD+L3xeByWndWscOeK78d+0sXpzgEFHcd3cXExEJE5a
85cpOdqeV43NzdnsRAs28Z3ZUh1vV5Hs9m8kqqt7x62NlxvBT0tTCHn/gAuOQflhWYR3de1WyEYBoMBnj9/jlKphHw+j2KxiM3NTSuIWaUUKvVLDBGFz5z+5V5
V1Sh8DXMjHAXcxjMD9v4NyUd2cIEgj5HBYIGJ/m+bwKRm0m1iML6MDiqRJ0SeGxnZ2e2wHTRMyeAG1sFqL4DhQK/x/+rsHI1owoJbmhFe0QX+l0lJVWoUGOr8FL
ugd+jG5Pvuby8HCoMtJ+uQHeRpPIewEXh2Gw2a2aLBuAx4arRaJinQj1tfKb2WdeLuiM5XkrUEzl4nhfqpfup9EqMx2M8e/YMjUYDa2trFvO9traGYrGIdruNar
WKw8NDVCqVAKxmRp6WygKCh7VSwnIhKYkZhhBmmRIuqTirqQZyTZ8wOM/fh8NhIPOP9iTPP1ANpfBdn6P91+cy3Fg5DCZP8V6q9dVVyc2rpgCvDSP11JPB/2vf9
HMNRvI8z2In+AxGHJJDoAbWOeKcMsrTHQeXL6E3wR07FQT8vv7Uz11Exp+sAq3vxfEgf9NqtdBqtUw4hAlPNV10jcTjccsloXBgRex+v49er2dH++l6fdsgp1sh
GEgclstltNtt1Go1ZLNZ3LlzB8ViEcvLy1hZWcHa2hoODw9RLpfRarWs7DcXCxeQaivXjFDbkBNC4cG+AEGPwiyy0Z04l2W+7m9hfAcrEkWjF2W/yCOo3ej2Tb/
Pny6pSuJRFzS9F67L07XHXb+/ohT2ya3pwP9z3MMQgkYCuggGgAl5fVd19alw4jP1Pu73dLyWlpaumCZheStAMDtVf+ff+DmFmaZpawFXjkEmk8FoNEKn00EkEk
E+nw+Eo+scusKd76DeGj6bpDCVinIn+p43bbdCMHjehauNobxHR0doNpvY3t5GJBKx4pyZTAalUsnMi3q9jlqthmq1aq5OTchR21NZXVc4KBzn5p21UNhcjoH35
PsAV2s2qCtLJ08JP74r/7lazH22NtfM4mfaJ/0+4x7YGDqseRK64bgRlCXn+yssdu1m/tQAo1mmAA+bJaGmJgRLsZGcpFblZ+wLx5fP1CrX8Xgcq6urdu2scXJN
B4XmOr9hcx6Px1EoFDCdTu2IOxUODKnu9XqIRi+KzPKoPFdAhDV6q9Q8Ulcm35v9UsV303YrBAOlP7X+eDxGNpsNIIB4PI56vY65uTlsbGwgn8+j2+2i3W6jXC7
j+PjYfMlceJp3wQXuSlOtm8e+3IQ/mHWNS3ryOWoXk/QjaaXuRMZxuB6WN/XBFQjuomcf3OAaDeihdqdbWAWqCgX+U5ed719mcupZlCqEuYF5H+0X3bGaQet5nh
VMJcEMwISHCn91YbomEYWF7/vI5/MG6RW9zTIXdB75uc6B+30qmXg8jnw+bwJNiVcKjlqtZhWnqRB0HSp/oc/j3xgw5QoHjf68Trld194oGDzP+y8A/A0Ap77vf
/D6swKAfwbgDoBdAH/X9/3G67/9QwC/DGAC4B/4vv+7b3qG71/4ZEmwLSws4NGjRxbBN5lcZP+dnJyg2WyiVCrZeYDJZBKrq6vY2dnB3t4eTk5O0G63MRgMLDqQ
BUJ1QboCQGP+b8IhaHMhPSdKo+4AmG3oJr/ofVzCLsxcucl4sqmwYPKUPpvP0kXGhaXQnUJDN4FqfgoRfu72XQ+O4ealJuZnrjlAQTYYDGzzq+DVZ1Eba/IUhRN
/j0QuYhcUAbnjFMYxuKaEIjMKdDYVggsLC4GwaeVk6Mas1+tmViQSiSup2mq68P5q2mntBf5dFeFXaUr8XwH8HwD8l/LZrwH4fd/3f8PzvF97/f9f9TzvPQC/BO
B9AOsAfs/zvHd837+W+fC8y4w/Qqvl5WVj4xnp12q1sLe3h3q9jnQ6jXQ6jWQyiVwuh5WVFRQKBXN1VqtVC5giD8HSYC4k1skm7AOuxsq7ExSmaYCgyaB2ODUxc
HnoCoWBajtOaBj8CzMN3L7y764m02cBl/EHJHH5foTeyh24C9Ttg2pl3RzsGzWpQmUl5vQ6HQv3u2qKuYSuokIKZZKZ8XgcqVQKi4uLNn98pmvy8d2u+9xFEXq9
amqSkQxPpklBN7GWo9f1SaHsmi46PkQmnEsVXhwPRatv094oGHzf/9ee591xPv5bAP7q699/C8AfAvjV15//U9/3hwBeep73DMB3AfzJdc8gpOfgLi4u4vz8HIl
EwqRrs9lEr9fD3Nwcer2enQZEr8TKygru3buHu3fvYnl52TwZPD240+kEDvxg1iY1pC5AHcwwBBG2YRWO83vUkgqz2Wcm1ah9zhZGXl7HH4T9X+17V+AAsMg7al
WtGaDnKrJvYX1yCTL93IWxStK5dvwsbabCQe/DDelqRRWCig55faFQuMLbzOKDdPxUyKrg47joe6uJwr5lMhlMJhPU63UTWkQOPP6OCVdMeHJrR6rmp9lA4ajXs
n9uQZxZp4TNaj8px7Dq+/7x64E79jyPmSgbAP6dXHfw+rMrzfO8XwHwKwCMxeVm3N7etsnl4LbbbbTbbUMRXMz9fh+tVgvNZhPD4RB37txBIpFAoVBANpvF+vq6
uTpPT0/R6XQsAIWh1qxApG42d+G4JJPCZS4c/iPJphmATADTPAY2hYGqwbQPb5L4unBUGPD+7BPtfCal6VHxhLHM0tSUZfc5OiZ87k2a+276/hSSs5CJOwaKNDh
GilaUt4nFY1haWgoIlrB7hyHAWagw7L3YLxUm0ejFQTUMmyZCpuCi4Oh0Ojg7O0MikQhwCIqKuEYUobnCgf1Tfue/a3dl2OoNZT983/9NAL8JAGtraz7t2mQyaW
YEF2Wv17OKuIPBwDgD8gaMENzf30e/30cmk0EymTRz4969e1hbW8PJyYmFXLfbbfT7feM2iCJI+rl2MidBB5gDr4uKHIJ6HJTkm2V+qJtUhUOYQAjTdrp4tFEg0
OuhAsINKqKWIeGn/eBCc/vLfrjvdV2/+btr6rjXunyGO05h91UBzU1JF2I6nbbvuubirHnh3xQJuPBe58k1Nfhd9UYwb4JmBT1u1PguT6W82HV90ExWXqv5Fm/T
flLBUPY8b+01WlgDcPr68wMAW3LdJoCjN92MEm86nRo5xMQgz/OsVDZrCwwGAzMFyOInEgkMBgM0Gg20Wi2D6+l0Gqurq1hdXcU777yDUqmERqOBcrmMk5MTVKt
V8/2S6XZ5Bt8PBqBwwFXDczKVJdbKxGwuV8Fn6O9hWuxNJoS7USgAiA7o2mIjcnG9FJHIRRagZnDSXFMvBHAJXXmIDN9NF6ib86BaLMxLEtbCNqza0do05ZotEo
lgZWUllDvS/7tj7yKRsDnQ61yOwd288/PzyOVy5mEhmlQ3pkb3qlDmGHHc1FTh/SlIqNhUOM0a21ntJxUMvwPg7wH4jdc//7l8/k88z/vHuCAfHwL4szfdTKXdz
s6OLWoOCiMCCX1J3vBYcsYvkJOgfdnv91Gr1VAul7G9vY379+8jmUwimUxiaWkJW1tbqFQqODw8tFgI1wTQRaT5BMBlMI9CYM/zzAWpkYL60zUleC/XLp+FAvQ7
/LtqFUYBsqKTuylV+7PPJGIjkYgdwRaPx82sUIhOoUKYq3UfVGjQPKRm5LsrOctnh6ESd+xpphFmTyYX5dz5u46Feh5YVGUWCuO4z+IYeB+93v3brOvd+6ZSKUw

mE1Sr1UBkJJEDAJszPkdjajgHLvGp40RTW5GDq6De1G7irvx/4IJoXPI87wDAf44LgfDbnuf9MoA9AH/ndSd/7HnebwP4DMAYwN/33+CR4MtNJhNkMhksLi6aiQ
BcDNLe3p6lXVMIMJxXy5DT3cnBmZ+fx9nZGQaDAV6+fInhcIh8Po9EImEM9dLSElZXV83MaDQa6Ha7AbcetT8FGAlLDr6WodPFrRvb1UT6mTaV9K7GcTWbCgKaC
+ReGA/Ad6CdrdrDDf5iIlo8Hsfc3BwWFhYsGpNmiGoyCgJqLy5u5WmUk5m1mNWcoeAgClKSj5soGr1IX+71euaypueJ7k/VloVCwUKlZ439mzgGFSqzBIyaEWF/
5ybNZDJ2UC3fh3OoiEr7pWhNY3E4zoq+KLjd067ept3EK/GfzfjTL864/tcB/PrbdIJQfWlpCefn5xbH7vsXYcIvXrywgabLj+YDtQVRhBscw4AWHs7RarVs8Wc
yGRQKBSwvL6NQKGBrawvHx8eoVCqWk8H78Vh0Jje5C5YbTicLCPeV83thqGGWne5qJMJF3/ctv4Lvz4VJc0o1NHApELSUeiKRMMFAFEDhwPF17X3VarqQ2TcKJQ
o7jY50ayWoRlOhwM3imnKed5FQxMCgwWAAz/PMdOJ18XjcajrO4hEUkrvNFRh8P/d+KvhVaLvX8DNmYjabTXt/zSTVwCyXP1BuSMPl2Tf+7oawv027FZGP5BjW1
9cBwBhzSj0uZNq5Khy4yZV95UIkilhYWEA6nQ6UKut0Ojg9PcWrV6/wzW9+E/fu3cPq6qq5Oo+OjtDv93FwcGCTwdOBptPLGv9aOwEIcgjX8QL8LGxzhX1Hf6d2
ZsAUf3JBkNsgyuGCJMJR7oGIgAeqUOsuLCyYoCAC0/wF9Qi4CUCcA/cEbPZd0Y/rjtTrwwQK78HU8HQ6be8FXB5tR+GRTqeRyWQCn4UJiDchiTABH2Z+XIck9Dq
maZ+fn1uxFQoHziFNCt7DLSrD+SaKcBUTldZPrWAgvKJ213j7Fy9e2OGhXGyxWMzyKsg9KEqg5GThzOFwaIVelO3lYR68Ty6Xw+LiIhYXF5FKpTAYDOxUYQ40y6
FRMABB8s9dHGE8gbtQ3I1GbatNOQQKAppSvKe6RPl93puIit8hIcmFSGREtyWTtyggiDo0bFn5DI4rFyHnSmGvvh95Gr6rkomq6fhufBcqCwo2up7VW6Qk8tLSU
gCdhW0QNdtcxOaaEK55x6aIzr1GCUl9V7rV6W1TQphohyiC5f6JXNk/FQi8P4UBkQbR1du0WyEYJpOJeSMUKZyfn+Pp06cALs5GYGjswsICUqkUYrGYeRR0UDgg
qVTKFpAWcuFz8vk80uk0lpeXDRHQbKCQ0UxBz/MMfWiREl0I+lMRQNjidBcYta/ahcohUCCo4OS7cjMo+nC/p+aGJuxEIhGcnZ2Zr53jRPcloTmfo4iFi5b3CXN
pEirz/XRslE+hwKBQUBOD48zP+f79fj/0IFnOVbFYDJB1utm1uYjgOhLxOr4hjITUa9x7JJNJc2MydoTjwvmcTC4SrphDRPSmpqF6XBQ5UAn+VCIG3/dRKpUAwO
oOJpNJO/G32Wwik8kETgJmSjJ97lwoakbMz8/bNTQj2OgWSqfThhDYl9FoZCmzLMdO4UMXaRjBNst00MVxnUZh4++EyJpjoZKf6Ml1CXLjEyEQJVAYuMw2cFEsJ
5fLAbgMVebY8v2By6rPXHwUUmpiqIBQ37yLHoDLoCZu+jDilt/lJuG1YbkomivBsu28pxt74UJybWEbWZuLFpQkDEOJYYiE78sYhkajYe+lXiLek6XhGI/BFAId
V44Vn0nT8C/dK/Efo9GdRPhKtnl/f99IGiWaWMqK8eYKnTkptN0IwQhrgcvkGmobJSw50AqPVYpzsF0t4GqK6yS0ste6MdSO1PgDJf6otV2BoJ4Sfo//rtu4Cs9
1IU4mF9mug8HgStYfBQP7wIWsQgK4EL7UXGoq6AFCbC4P4ZpTaqooElOThJuAqI9VmsIIxFmC+01zFva7O+8uzzCLd+D10WjU1nmr1bLPKMQZOal1I1kQlihDw7
+VY9Df36bdCsGQSCQCAUu9Xg/tdhs/+MEPDD4xGYrQi+f5jUYjS0jiBJBR58bgIlc7jN9h9qbaZPydElmlrXojwkgltlmaRu+jgkhdUXwvd7O6XgZCehUGajq52
Yp8Hvulf6Pw5Xhwg3GTkdxU1KXCVK9XktPdEKo5VbuHeWjUFcrP+M7uQmfiF93UmUzGDncNe7a7gV0Ex/lxBQCbG3PCa1xEyM9d4eP2JRaLmSnHbEvXPTudXpSG
q9frWFpaMre+69Vw+QZ3rm/SboVg4ESwLDozzkajEWq1GqbTqXEMo9HIJn1ubs4SfnSgiSRY4oq2tWqX6fQiurJYLJqQ4IKmMGm32wHEQEkeJn1nLUBtXASU4EQ
uNA+m06mdMsRnURBoaTcAV7gDuixdrR1GnCls13cZjy+KsBJl+b5vPAPNBn5HBQIT3RQGU6ipeaPjoN4I3exu/9gvl12n+cW1Q7cmcLFpFxcXA4hK58jdoPybCo
sws+M60lEFTJjgCfuOKxxYNJb5KsoxAJdnWDSbTTSbTRSLxUAynl7rIrWfSo6B4aEA0Ol0TEJ+97vfxbNnz9BsNhGNXqRjdzodVKtVOyykWCyi3+8Hglsmk4t4d
MY6sB4kNyR5BN/3zRRR3zAXMQ8KAa6y6fxMm2tSuL+rfU1Gme411vI7Ozsz04ccAheq612gwONP3Wy6sPl8RTthwVjU8ERhk8nE+kXUoOiFi07JLW6GaPSy+Iqi
A743cOmRcMdGoyQp5NSWZlPvEjcG14HGwrgbexZRqHN4HTmp3wlTCNfBdhdRuP3TyEjWcABgXA9dr+12G61WyypO02zjuLJxjH8qTQkumkQigeFwiCdPnqBYLOL
+/fvY3NzE/v4+ms0mIpGLgpcnJyeo1+s4OzszzcCBpe3FqrlqanAyVdMp0cMBVFcbNZLLarO5JBYQ7rriZPEa8hj9ft8q/QKwSD6GVfO76qKkD5/8gWpjd6GqNl
HoH3bdYDC44oWZm5szLobaSb/Pd1VSE7iMvlPugddrmrveg3PksuzaRxf1ALCzIwEgm81iZ2fHyGT3HmFzqEjD1eb6+yxeQVsYUghDJ+539FoeYMM0bU2EYmCem
hw8OFeJaQpTHbu3abdCMPClCJefPn2KcrmM9fV1rK+v4+HDh2g2m+ZO3NnZwatXr/D06VOcnp4ik8nY5NL3zjp6LBirrrZIJGIama5H3bh8DrUdNanavW4LMxvc
6wiF1cOgG4vnTioxSJNBoy5JMqpZAlyiEBchKDrQeyukV+FDdMDNpdGQRFpchPosvjMRGIAAManBaipEOKbsPwU27WcKazdQR8eSJtf6+jp+7ud+DtVqFc1m8wq
KC9vgSiK78xmGKvS7Os/XeSRmfc+9lmuMfAOPmFMFFo1GzcXJhMFMJmNI2CWWOb9v026FYKA9y/BQz/NQq9VQq9Xw6tUrbG5uolAoWCYlS7mtrq7i008/tQpE9D
T0+32kUimkUilj1nUTcmMVCgVzjSqD2+v14HleIHiGi1RjIbSFaQUl2TS3QhlkPVGJi1vTpLVEnUJzIFg8hf1TWK6BPto/miQqGNif0WiERCIR4D00NoTCSd+V5
BdRBYUQ352N99exUwGm76aEI69zN5jGM3AsFhYWcP/+fczPz1uUqs6HvpNuHD7D5QpmaX4XGbjrYFZzBZv7XT6X4fz0rgEImFP05FEARiIRM0M4/xqY96Z+ue1W
CIZI5CKjr9/v4+zsDPfv37dTqJi3sLq6imKxaIk96+vr+Oijjj5DNZnF8fGyZkd1uF81mE41GA4PBwI4514UAwOxSZbhpK1PqcpP4vh9IW9bFqgPuajTV+BotSIj
OTaRoRd2MRAka8svx4vPdjcQNzH9s3KQq5Nw5oFBSFMBFyM9JmKqWZ0QehRz7o+gAwJXzIXgNSTIiCo0b4d/cIDZqTtrhfG6lUsHp6Sk2NjYsrV5Zeh0/3Yjawj
b9LJQYxjGEIY/rvudyHzquhUIB4/EYZ2dnAa6J88Kiss1m0xQnyXMVJD+VcQyEjqywUyqVrGJTvV7H0dERarWaxTdEIhEcHh5ie3sby8vL5s7kBmy32zg8PMTR0
RHK5TLS6XTgkBJuSp4OpL5enTBm5NFTcd2EE9YqAUQ3ojLFumlpngAwEpGmDwWDyweEIQSaCOox4L3VZHBjAHg/jYlQF6mOCTckg8yIcLgYdS4pgJQs1PgC5R2U
f2AflY9Q1l4RCvtHDxSfcXJygj/5kz/B3/7bfxtbW1tot9sBs4fvrErCJWrdZ/M7Lhp05999hjvOivTCmv6dY08+oVarBcrvUTgnEgnkcjk0Gg00Gg0sLS1ZGDv
Xg+u2vkm7FYLh7OwMz58/tyxHmgHLy8vY3t7GvXv3sLu7i3K5bKRbvV7H4eEhtra2sLq6GoiE3NnZwb179/D06VN8+eWXV0iZ4XCITCZjgxiLxa6kqM7ysYcx29
RsatvRfOAEu0FJ7IeaDPQu0Bzyfd+0sdqJuvhUyCj60A2nAoL95nc0CUzjItT9yHegUOV7EPHwe/p9aizto8ZFqHnlCggVDmHeCH2m2yaTCX784x/jO9/5DnZ2d
nB8fIxyuRww/64j4mYRi2GcUdhmVyEWpkjeZHqoAPT9YPATyUjXU0Y3JmMc6IInKUu+7G3arRAMg8EAf/qnf4p8Po9SqYTV1VUsLS0ZO7++vo7V1VUr7MrzJCqV
ihGQxWIRmUwGiUQCi4uLWFlZweLiIvL5PI6OjtDr9Uwrs4DLe++9Z4tVXWiRSAS9Xi9ANpLIdJsuAg1W4mZSmxu4FEz0LLA/CtV10WtOhHIB3GxqjqiZEIYQXHS
gfn69fjgcWqFc9odxJNFo1ISG8if6fbd/bgyG2vgUPmyKhFx7XLU4++UmjNGL8oMf/AA7OzvY2NhAs9kMBFuFeWTC4Lx7rTsPYW2WeRL2PF7nxkzotVRQSkbyvd
UkdD0V9Na5xwXctN0KwXB+fo79/X0cHR3hxYsXKBQKWF9fx8rKCorFopWHv3//PtbW1qxidKPRwP7+Pk5PT7G3t2fHwi8sLGB1dRUbGxu4c+cOlpaW0Gq1TCs3G
g2cnp4ad0DXHBOp6BunTaf2OjfLrAXjuutUIJydndk/JRXVxx+JXB5Uqh4IunO5Md0NQa+CeivYXK+Eahy19bkh+/0+stlsADlQMFAD8Vmud4GmhQpEFZhqYmiM
AuMmeF8laXVcqflVCLnN8zx8+eWX2N3dxZ07d3B8fIyTk5PARuQ8vo1md//mEpJ67XXeB/79TYSg3kPLwjGhSuNCPM+zMyxYij6Xy10xcW/aboVg0ICbs7MzHBw
coFwum+YvFApYXFzE5uamIYFsNotSqYStrS3jE1qtlqVaU1hsbm5iaWkJxWIxYKO2Wi074EPJNAoGtdE4+Ezpdm1+dQnpd7jxiAwGg0FAILjeA/YtFouFFkhRdy
bvTVJUNzbH1Pf9mUQk7632PDeNkp0a7cgNHo/H0Wq1AuiAPzVlmxvarRnB79Erw0rdNKPcdPAwWO+Sp2oCxmIxtNttfPzxx7h79y62trZQr9cDx9ip1nZRiCsww
rT/rE09y4zQe4aZo2HNXWv0OjAykvNMoRuLxayEHUvzZTIZAPjpTLsmxCWhxYjAg4MD1Ot1ZLNZJJNJPHnyBJubm9jZ2TFvQ6FQMDRxfHyMarVq5eTr9TparRYK
hYKZGul0GrlcDqVSyUrFKQzudDoALo9Np09fk39cf7VKbU4kmWSaCkQrYdF7QDALkZuRQssNjlKkoZ4OAAEkoeiA31dt7ZpBKqBp356dnSGdTpuQ4efqyaFA4E8
Kl7AUb871wsKCCQTlchSlKdpSLwXHV1Oy3fEEgCdPnmB3dxf379/H4eEhjo+PQzd/mDBwPQSzkIWuYf4MEw56r5s2Vzgx+pcCloJOlRDdnJVKBbVazeJ6firJRy
5gSsH5+Xk75JYaJJlMolar4ejoCC9fvsTm5iaKxSIWFxdRKpWQz+eRz+ctVFTPtKzVamg0GkgkEkin08jn81hZWbHy8tQg0+kUg8EAiUTCvAn8TO00TpgiA9Wwa
i7QBUv/PSdaSUjdNLpRgEsTxPd9C59Wso9j59Zk4ML1/blJXW2p39HNqFl77CcFVSwWs/nR73ueFygGowJBS/4TJRCBcMz4Pb6XmyymFaS4bjhuYcKw1WrhBz/4
Ae7evYudnR1DDWFEIf/vujavQwb6d9dj4Zoe15kms57DNcm/aXDTeHxxupWuRY4ThUO1WjVXv3qObtJuhWCYm5vD9vZ24OAY2qqxWMxgKAnAZrOJo6MjLC8vI5f
LIZ/PY319HVtbW7bpl5aWsLm5iUajgYODAztsplaroVKp4OXLl1haWsLi4qLdR+Evbd92ux2IxNNFwwVGU4H/er2eCQQN/9WFrG5EogNuGo3EpEmhKdTc0PxHYa
Klv7Qeg3IB3Dg0i5R7UCE3HA7t4BMuYPVQLCwsWNIbAHuemic0Fegt0rM7NCScyV/8jnpaeG/lU1TohWlCRU9Pnz7Fixcv8M4772B5eRkHBwdXOAZ1D4aZLbznL
P5Br3VNFF4f9v0wc8N9D0UrnJt4PI5cLofRaGRBXJxDjgdzKur1OhqNBorFYmifZ7VbIRiSySS++c1vot/vo9lsWjl3bkja/iwVPp1eHOnV7XaRTqexsLCAFy9e
YGVlBXfu3EGpVEI2m0Umk8Hdu3exubmJer2Ok5MTlMtl1Ot1NJtN7O/v4/DwEN/4xjcs6YauS0Lner1uC5pNpTORQbfbvSIQVLO5cetqn6ud7eYIUGhQs5KDoHt
Wy9oBMN6BKEXdVBQifC7vr0Ezap7kcjlEIhFLolINrkegqe1OYbOwsIBEIhE4o5NmhaaV81nRaDQg5Hg/zgU3hCIlFeIUbGqO0Lv08ccf4969e3ZcAFO0AVzZwN
rcTcl2Hemo6EPv+Sah4t5Lr3XNlMlkYgfmkowMEw50c7bb7bcyYYBbIhg8z7NU6rW1Nezs7ODw8BAnJyfodDrmj6V0JDtPU2MyuSh9ValUsL+/j5WVFaytrWF5e
RkrKytYWVkxF+jOzg6azSZqtRr29/dRqVRsYZJgbLfbtvEnk4mVkXP5g16vh1arZXEHrkAAgolBbNyYmkHJ67h5NJci7KRu2ul0+1EIKP8AXHIA+js1PzdWGO/A
+1EwMIiIdS7oHWFmKxEBhVwikUAikQAAE56aBcr+uMKNC5uEJZES35kCCbhEDGGogfeJRqOGGh4/foxSqYTd3V0bN/JDvN5FDW8yJdzrXG+E/j8MkcxCD/rTJS7
5uRbCpZmpa1RrPLTb7dD3mNVuhWDo9/t49uwZotGLslUrKyv44IMPcOfOHZTLZTSbTQwGAzSbTVSr1YAG40ZgENDp6amdVZnP542c3NjYCCCJUqmEzc1NnJyc2H
e5ETSmQLM3FSG0Wi10u110u90AXHdhuRJmygfQv688g2pHXQg0E/QsQwoQvj8XBgAjcYkOXALSjXVQbwY3J/kFhoQzT4KJVJ53EdvRbrcxNzdnB/noJuem7nQ6x
oor+chx4OYkj8Dx1PwS9p1kMBDMs1BTTccfuIiT+fjjj3H//n1sb2+jUqkYb/QmRHCTa/h/Xs+f+nfXXfgmklLvqT9VONAlychIHWMiNA2Qept2KwTDcDjE8+fP
bZEsLi7i0aNHWF5eRjqdtjDh0WiESqWCvb09dLtd04rUWtRWo9HIvBOnp6fY3d3F0tISSqUSNjY2sLy8jHw+j6WlRQKBSsKQ83EJCoG+XS7XfT7fXQ6HbTbbTM
bGJPOQVczQKMUCaUJk0nyUdPrRuV9yPLPSnHm9zTclfEAGuegG19jB1xtq7EORBhcWNyAfBfel5ubNS+IutQdS9NE0QEFAp/vlrFzPSbsDxEdYyqUjVdTT1EVUc
Pz58/x7NkzvPfeeyiVSnjx4sUVbuE674OLIsJMCSBY4Yt/1/vN+j0MpbgCwxUkfG+aFAx+Yv+4xubm5lAoFPA27VYIBmXCmYfebrextbWFXC5n2ZepVMqCn1iTY
TAYoNPpoNFoYDQa2TkS3DgktrrdLo6OjvD8+XMzNUqlkpUXp4bzfd/i68/OzoyP4DHl6mdn33URKKxVoo8CAbi0nd3iKtwEjAXQMyF1Q9MFyk3KoC7lKZST0M2m
rL+SmJqFyc3W6/WQzWbheZdl7oBL82h+ft7K/btFWcigx+Nxq6SlCElL0c3ymLhCkQiH8wsgIHg4VhQGOgf9fh+ffPIJHjx4gK2tLZTLZfT7/fXQ8GsCsLm8wiw
tr/eZ9f03tVl8RNjzmUxVLBYtiVCFA8ebeT83bbdCMDCqjxohHo+j0Wig1+uZ65JkFk2ApaUli4A8OzszVya9CAsLC1dCdRn81Gg0cHR0hGw2i2KxiDt37mB7e9
u4DAqAw8NDVCoV9Ho9O6IcCBKD6mpUDaduPJc/cL0ErkDQqEkX6isByM2ZyWQCRXG1qpMb2ch+k+PgdyjUNBiJpC89EJlMBuPx2EyvSOQi1bdcLtvY8d4UBnwOF
6hbpFYTgzgWXPT6njreFIBMMlMPj4ZaM+iHgmJ3dxfPnz/H+++/j/X1dTx79iyUY3DnM6ypPa9tFlJgm+XluMm1iiQ08G4ymSCZTJpwYJ6Ny0m8TbsVgkHt61gs
ZkVWyK5TO0YiETudemlpyY6om06nWF1dxebmZiATk14CLeo6nU7R7/fR6/VQq9VwcHCA0WiEra0t2wQUIF9++aXVmaRt706KllpuAsJltZ35z7W16XXQf553WQt
SNzcAI99cMwK4DHwKizLk+/O5Gu/A76jW9zzPTpKisAGCdj6hLCt3J5PJgHuSJKdyBmFVpzR3g+PpkoqqIX3fN8HPa+mtoTDQ+3C+FDVsb2+jXC5bKUEKOrYwPu
E6UlL/xufNai5/8abr3N9ViBEd+r5vLkyac3r92wqHWyEYyIJzwRE5sH7+ZDKxw2aq1SoGg4F5MSgcstmsHXdPklJTt1msxbWzWc6MpCMXFRNSuKC5OHRBu8FFt
H+pHamBlehTREGizg0s4qZX4o3h0LpA2Hd6bihgqSG5uRXGawQhx4SbnBqGpgkFCfum6Eg1VTKZtIAoRj6SKdf8h7DwZrWHXVOMY8zGv52fn5vgobZ3zQnV3Pxu
JBLBixcv8PTpU3z44YfY2NjAkydPbL7c+AZ+7zqhEIYMrhMgbyIa9XO+g/ZNx8F1UcZiMTvZqlar2Vq9qQmj7VYIBg244abkQuNk84h7xtRXq1VUq1UjtRYWFrC
zs4OtrS0UCgWTnsPhEK1WC8fHx6jX61a3gZsoEolgc3MzkNrMRUo0okQZcOkKUoadAoLXqa2tJoYeI6c2NAWIIidFE+QQ1DXJgCbGeGhcBIk+Ch9FBhrjwMVFbk
YDkchnaGo6UQRP5Eqn0xbrQdNA30VDvbl4lVy9LppRGzU6hSZNSy5+fq7uWD5P19nZ2ZmhBiJMVgN3hZJqdjUdwrRvGNoI2+z6eRgi0O/omKiwU0Ghn9M7VygUM
BwOrSzcT60pQRjJjUrPArUNtZj65IkyxuOxEZCDwQD1et1yIrjY19fXkc/njUSkd6HVagEAVlZWbPCUkeeAx2LBmv0KzVRiq4ZnH5Wc1Ig+al3CYH6f1zEmgNGQ

ru0MwDapnqmQzWYDJCRRC4OwOK6E3oT/inY00nI6nVqJvNFoZBW3C4UCPvjgAySTSezt7VmcAlPTw+I2KEQZmr6wsIBqtRo4gclt7ibSuBAWJOF17iZw+Qkiqb2
9PTx//hwffvgh1tfX7dQx/p3zrGjARSC6dt1+hnkVXGHhcgzu/d6EEHQs9Hoqz0KhYJGRsziM69qtEAwKgYFLMpKSmpqH/yeDnkgkTIOSke12uwF7nSYGE6/Oz8
/RarXQaDQsBDsSuczTAC4DmKhhuTH5NzdSkDBeyTMlHnVRU/NozAKboiPGIFBgusVgeX+tv+h5nmWMcnMzgYseF8+7iHFgVSuN6tQAKc3YUzcp5yiVSuHdd9+F5
3n43ve+hz/6oz/CyclJoD4h34cBTyzAk8lkAgKp1WrNXLizSDn1QNEM4niShASCtR94L0UN29vbOD4+thOeXD7hJmShejNmkY5hf3vTZlWEwOaiGhUOVGDkG7hG
KTzfpt0KwcABYhYYbX2FnNwU1AKE27wukUiYzUmtR2ExHo9NQzErc319Hf1+H7u7u0Y4TiYXVXJIenLjE2qrRqN2d+MI3KIkmjPvButw4ynnQK3KRU5SUAlFwn0
gWA7N933T3EqaAghoaz6Pm8g9yk6JVPcEL24w3nd+fh6/8Au/YJmtFNoMeqIwoNlBk4jjQhJZBbM2NzCIz2ffWQOUppu6L7lp1KygoGCV8W9+85vY3Ny0c1K5ft
z3DUMKrsbnZ2HQ/W21tpoIYTwLm3pUgMuKV5FIxJKt6DV6m3YrBAM3lGpdamFqX9XAwCU7PZ1ObfHyZJ7RaIR8Po9IJIJyuYxUKoVarYbBYIC1tTUrLJtOp9Htd
rG0tGTnAp6entomVNKNgojNNR+oIRUhAJdEnZoBOonUqOrpYMAWhSC/o5mJ6p3wPM+IyHq9HrBJ0+m05VUwQYscAz02SioSrWioNslgZf07nQ6Ojo6wtbWFtbU1
fPvb38bHH3+MeDxupgKFAt3NFGbApSeBsPf4+Ng2rdtcSK9cD+/NoDQKCLW/ff8yMIv3GQ6H+OEPf2hxDeSgXBNCXX46r+yDu+Fn8RAuEnGFRNjmDyNiwwQlmyI
lVk7P5XLmzn+b9kbB4HneFoD/EkAJwBTAb/q+/7/3PK8A4J8BuANgF8Df9X2/8fo7/xDALwOYAPgHvu//7nXPoHYkgcYFzLDc6XQacIGRb9Cj1DqdDvL5PKLRKG
q1mhGSLFNG9+RwOLS/kYw6OzvD8fEx9vf3cXJyYoMMBMNrKbhciKdmjssmU8vrQtFgIl6r8QbKNVD7cmOz33S7un3s9/uIxWJIp9NWP5NcBBNuNJKUQlkFjgZV0
axgXgb7NRqNcHx8jJ2dHbTbbTx69AhbW1uYTqfmqVBTRTU3x4Njtry8jEqlYuN4zVoMbFSiJKaAc474HFebKo9BruHZs2f41re+ha2tLTtQ1jULXMEUhgrC0MN1
73FdCzMh9P9K0CpC4DWq0GKxiyLLX0VI9BjA/8r3/b/wPC8D4M89z/tXAP5nAH7f9/3f8Dzv1wD8GoBf9TzvPQC/BOB9AOsAfs/zvHd835/ZM3aaRS0jkYiRaGT
COQAArGQVACwvLxt0Jozs9XqWKEOzhK3b7QKABcccHR2hWq3i1atXRqIlk8mAGaHeBv6fUFo1nNrgNniOy4jfV54iDE1oPgUFmZKJJPoIo5WJj0QidugOhR9rQ2
hylEZMUgiRs9EQZW4+HqzK9yBp2Ov1UCqV8PjxYzSbzUC+BAWMCkcuaCKkbDZr5oTrmgvbJBxLmotEOHwG507nXeMcuLlHoxE+/fRTPHr0CNvb2zg8PESEtVrvit
gzjBsKIRfbzOrNBlYF+JwwdKH+gY6DXEknrWAGXxDTJ46WlpdD+zGpvFAy+7x8DOH79e8fzvM8BbAD4WwD+6uvLfgvAHwL41def/1Pf94cAXnqe9wzAdwH8yaxn
0B5izHen07EDZlqtluWS81g6ar56vW6LfDgc4vj42HzojUbDoBUhK21dJledn Z3h5OQE+/v7FrOgsRS6iLSvqVTKyqgr8QUgcM4BNzYFmt5HIxG5+IhGotFoACG
RrOTG1oImFCDkF3gtx0gjDSlAksmkcQ268WhCaUAX+8gAJqIIz/PQaDTQ6XSsnNidO3fw5MmTQNyGvjM3hWp9LuzFxUXjGXTzKFejY0izYzgcmonFIixhwsj9yb
Hb29vD06dP8Z3vfAfb29toNpt2nSsg3uRJ4O/ckLOu043tCgk21fxsmrei60g9Jvp89eAwJuim7a04Bs/z7gD4FoA/BbD6WmjA9/1jz/NWXl+2AeDfydcOXn82s
zG3nKQY/bGsz3B+fm4ahRWVaXrs7u5aJiEP5Ugmk1aogo2bpVAo2KbjwTSVSgUATHMqocjFxQVMzanSXCEs+0CTJ51OG5rhvfQ0Jg1OUTOFi4gCgFqQ0X5KJvLd
uTF83w+cAq7mAgUCzTQKA81kdNERhQ8RwNnZGRKJBLrdrlXo7vf7JiCIkrhQXWHAcVVOYWlpCeVy2a6bBacVefHvSkKy33w3FyWoduV80UOxsbGBvb09Qw183iy
OYRYycN/1uuYio7C/sambks3tF/+vRLKLnm7Sbny153lpAP8vAP9L3/fb19hJYX+4MkKe5/0KgF8BgFKphIWFBZTL5YCbkIv1+PjY3Hj0NBAqdzod2wBM6Dk/P7
cimMAlU8sSaQcHB5YHQfemklOuhicqoEmjp0Tp5CsPoXwDN5QKEB0/l7Sk8FASje9BzkDJPNWQaurwwFxmP2qYNt2YFAouPKXwVCKRfT8/Pzezr1wu4/79+wCAx
cVFzM/PB8ynMGEAXBJpHAvGnmgSEO8xq/G+5+fnJvTUncxxoYmk5DZweV7owcEBnj17hm9/+9tWr4P9Zf8VOYb1SU0ORTnu5p7VFCHMEiphHIOOE9Ey0aqapTcR
UtpuJBg8z4vjQij8333f/3+//rjsed7aa7SwBuD09ecHALbk65sAjtx7+r7/mwB+EwA++OADf3Fx0UKZB4MBGo0GFhYWLLhmOBxiMBiYZiWqYOIISUUAlijFjTM
YDJDL5eB5Hvb29rC/v2/nTOgJU4wPcMOedcMSsVA7M26AZgVtXc/zzH/MTcvJc7WD/p8LzA2oUo3P+n3kGlRI0cMBILBIAAQyGlXwsA90UWrMAf/Nzc2hWq0GPC
GRyEXuCnmcYrGIUqmEly9f2ruE2c+uEORnhULBOCBZe+7SuSJYqUCSyeQVnkJNNmpP1/MwGo3w4x//GI8fPzau4fT09Iopof0J4xhcTiJMKFxnOoSN03Ucg65N9
kORUVj/b9pu4pXwAPxfAHzu+/4/lj/9DoC/B+A3Xv/85/L5P/E87x/jgnx8CODP3vAMrK6uAoDFEnQ6Hdt8FA48ZDafz6PX66HdbhuMBC44CC5ieiZisRhOTk7Q
breRy+XQarWs8g01CguQcAFRMBBpqNuO0YA0E6hJmapNyE+bnySnRjIClyaCq0W54XRyaSpR8jP1WxOSSCZqfAPfhQFbbgUl9ot907gDeha01BojDYmaIpGIFax
hHsfW1hZevnw5k1BTLecu1sXFRRwfH5u5NAteu5uTY06hSVcz0YKLyMg9kZyOx+MW10DUUK1W7RmuKRFGRurv6rXQvympqp/pT5c/0OtcnsXlvxR1aOSu8hA3bT
dBDD8P4H8K4Eee5338+rP/DS4Ewm97nvfLAPYA/J3Xnf6x53m/DeAzXHg0/v51HgkAZh5wE6bTaWSzWbTbbXOtJZNJ29A0G6bTKSqVioU/n56e2klU3AyZTAapV
MqORM9kMtja2kIikcDR0RFOTk4CGkYHm9BMzQEAyGazdlKW53no9XpXkIba2ioUmBWoggG4jMfX6DvX1maeAzUkhQdRi36XhCTRAYlL8h/0dtDMoJCjm5Fmh5o/
Wj6flbtHoxFOTk6wvLyMTqeDlZUV44ncmATdWGEbJ5FIIJPJWOq8EmlhzLu7hhYWFgKuSwCBoDL187tuzLOzM4trWF1dRT6ft7gGt5+cqzDvhPfa4+J6V/gct7k
ko+vlCrvO5WxUUClCUPfvXzpi8H3/v0E4bwAAvzjjO78O4Ndv2oler4d//a//tZ0SBcAqOM3NzaHRaJjL7OzsDOVyGcvLy0gkElb9mawrvQvT6dRqN2azWQAXG/
T999/HysoKstmsVbyh9tDFqAPp5k0sLi7aWQusWk3+AggeSurei2aIZhoqqaTaHLh0gWrEJN+FgkMP36XQ0H5oLoUKA0UHKlxez6H1kQuP6IE8A02oo6MjvP/++
xgMBrapqtVqAMLyPrPsdAqsQqFgx6zxHdxrlbPgNUR/5EaIFpS01Q3EOSXCikajxjW8//772NzcDHANrvnhmn9uvxT9sc0iGq8jGV1viPu8METCseR4hyGVN7Vb
EfnY6/Xwb//tvzX4B1zENDx8+BDpdBqnp6dWW2EwGBhJmclkzIakSxK4cK1R6zHUld6IUqlkQTxawUf/aTwCGV6FctPp1ArJ0OPgeZeJXqwaxe8CCLjSgEtoqLa
gNrWL+X8uAk0mI6nK8GnlDdSbkE6nTRgQHdCj4aID1VTUgOyjVmrmc+hGTqVS8H0f6+vrqFar9ndd1GFaVn9ms9lAQJQL5fVeLvwmCakmD8eFa8rzLvNUGK/CsT
w/P8dnn32GO3fuYHNzE8fHx6hUKlcge1hz32vWRtQ+h3FNLtnM+84aMx2XWYKC/XubdisEw2QyCXgaWLacG4tVmIfDoQVr9Pt9QxfcHKweDVy4Hu/cuWPJUvSVU
wtOJpNAWqouYkpZui6VMPR938rIcdOTb9BzGNx/NAEoQKh9lfXmAg5jndk42UQo1Ii6WXnfubk5ZDIZy7qkcKAAc9GB6193NR55DJ5hyffhXGQyGZydnWF9fR2f
fvrpFe+EtlkbbWFhwdCcK6DC7uWiMZLQFGBcH+QaiKBoarHRpXdwcIBXr17ho48+wtbWVmCNhZF4avIpbJ9FPM4yLXS8lQvR8XeFxCwkof2l2fNVcAxfeeMCjsV
i2NrawrvvvotisWgTzNoKS0tL2NraQiQSQa1WM4FQq9XMj68JRrlczn6PRCJWz4BuMRZ/0YAkhc2svKw+YJJ/tLm52YhQ6OXQFxQOZO8VLVBDKzvvkl3aeL0KAh
VmFDpEBzzeTyMc+R5uEJJ6TdS+5/V0YypUZUDY8fEx1tfXMRgMLBS72+1e2UhhMNi13wuFggIz/XwWAagbbjK5LB5D1MB+U0AzlJ5zy3sxhf/HP/4x7t+/j42ND
RwcHJhZpH1138slkF2iUK/RpvCf93cFsjt2YePmjlHY72/TboVg4GKj1k8mk9jY2EAikcDa2hrm5+fx5ZdfYnl5Gaurq5YkRQ316tUrvHr1yvgFTvLu7q5pfhKA
hNHdbjcQLAQE06K1eKb6hzm5yuITWTAAi/Ytm2ou/nT963y+O+nu5nc9GQACRKJmM2qZNZdI1O/rQlRk5F4znU4DXgqOLQlIIoh4PI6lpSX0er2Z3MJ10Dabzdr
5FRR42g/X/GBfOE8MiJufnzeE5nmeeYmY0q/f51xEo1Hs7+/j+fPn+OCDD7C+vo56vW7zxn6rWamN14RxI+ynu2m1KU+hJhX/5nJWLoJg45omWvgqciW+8haLxe
wk6MlkgoODA8RiMWxvbyOdTuPevXvmGiuXy2i32ygWi8hms1hYWMDGxgaOjo4M3k6nU2xubqLVaqHX69mmIZxUfz4QLOLhJk+pP5yfM7WaGoh2LCMaiVqY6Qkgo
OGJKpQrCFtI6od3iUC6GrXwiXIHSiRSGLgbNMxVNosI00bXLgnIaDSKVquFwWBg77y2tobd3V0A17v3+H9d7ESQWofDbWqycXNwrMg/ESECMFOU/VeEoePP+SHX
sLa2ZiejXSfMFCHoenFtfl7jvr9rHrmbX3+6goJNSVJFIfr7TdutEAy0cSeTi9qOc3Nz+Pzzz3F8fGznUGazWctraLVaVjK+3+8bk63BMffu3cP8/Dz29vYMlpI
Y9DzP4iTYJpNJIGpPUYSroWgWMGGLG4oeAoWTDMnVjTmdTg2tuOPAvih/wL9RmGhqczabNWGgx8FxcfJ5/L4KoDDGnG2WTUpzRZFRPB43ky6bzZp3gmbGrHvNYv
kB2HkfYSSkcjAu6aaojq5LLVTDmBc+n/PGZCyalvv7+3j58iU+/PBDbG1tmYfC9Q4BQRcjx3eWhlZiUccgbPPrhtb3DhMw7hp1yeufSsFA/7rnedjf38fW1hbG4
zE++eQT3Lt3D/1+31yMTK2em5tDvV7H3t4eVlZWrLy7Fkp59OgR1tfXUavV0O127eDaaDRqobcMiwUuFxqvUbYeuFq6XRe1ogQuVvVuhLkfGWCjwkdzFXgfFQb0
9dNk0ENc+EzlDq6DtbOEwZtINKZ+EzFxQx0dHeHOnTuWk5LP51Gr1QI8hrYwKM3G2BT36LU3aW3OGXkEep+0MUJV76fuSCqozz//HPfu3UOpVLIQepdAJEx3kZh
yOWoezNqorqmlJgc/Vw9DGOrSd1Du4qfWXclgGQA4Pj5GOp3G0tISPv/8c6tENBwOsbW1hc3NTSvKoVAVuNx8nufh+fPn5sFYX1+3oqa0XVmCzHWpKXRVKMb/60
RpRB0XgsYQaBASeQhtnndRGEVPe1YSi0Vc1M3oeha48NTU4Pf1HfiZCgxdRNqus0cpBDnWrKExmUzsIGIu0NXVVVSr1SsmjGtWuJAYgJHOdC1q/9lcIpMClutle
XkZqVTKMl6J8rS4jmphzhX/dnBwgBcvXtg5FFrsRAW9jrOrENyxdclTnROdf75PGNkZJihdcpbKLSwQ6ybtVggG379I2W02mzg5OcH8/DxyuRy2trbQ6XTQ6/Ww
tLSEeDyOUqlk34vFYrh//z6eP39uHAOLjzCSbWlpCcVi0eo98sg7Bj+5DG6Ync0FQ2KTiEUJHg01pjkBXG5wFzpycebzeRwcHARMGJKGzBLVGolERAACrldgNqP
tCj295k3owEUbKuhcWM1xLRaLGA6HKJVK+PGPfzxTGMz6PxsRhy5+5UPczUGuh1wVPTLkr/Qd1cziffDQKhr64osvcPfu3QDXwO/rGOmYc17CkKWuAe2PrsMwJa
Xv6WZXhv3OteqO1U3brRAMc3NzJhiWl5fNxstkMiiXy9jb27NSbQDsoFm6I3/0ox9hOBwa5E6n0/jggw+Md9jb20Oj0TDty5RhHTC6ENWWc+s3MhhGJT01EO/h+
qPpnnRRDb/LxgpKGoCkZdm08Im6OPWZurDUdnVRgwpCVyDMcpPpJqT7bzAYmBCen5/HYDBApVLB0tISRqMRFhcXbWPOWsCuja2NOTLKl7g8A+E5c15IAHveh Re
bloiGwoBKgBXa9O0pLlxeHiIV69e4d1337VoyDBPkiIEJTe1zxw/XjeLP+HvaqJoc2Mm2PQ5yp/o/N203QrBwNDafD5v/MKnn36KaPTi9OtarWZnDZ6cnGB9fd1
81c1mE69evbIEq3Q6jWKxiG984xsYDoeoVCqo1WqWd9FsNnH//v1ACLPL8pIwpJuPSEQ1g0J/dYlqNCPvSQirhCP/rhuIqccaF6HFNlSbqNbgZnWDcGZxDNehA9
5Px0XvxZZIJKy6M01Blsh7/PgxxuMxcrkcCoUCDg8PZ3IMLnmoLRaLIZ/PW+KaXuP2n/NBAQsEk6voOtXkuTB+iRwDBQi5hu3tbayurmJ/fx+1Wi0Qb8J7qUZnx
Cn7SuGhQlCFgyIZXuNGgCqS0DmdZU6E8RM3bbdCMIzHYzx58gTf+ta3sLa2hna7jdFohG63i5WVFauY1Gg0cHp6imazaQfSjkYjs72bzaZ5IFjrcWdnB6VSCfV6
3crG+/5l/oDardQiWo2ag6o2oOd55rMPK5zKxcaCtlw4hKuMp+C5kzxRi+/JRacRjWpnq+BRTeeiBNX+rg2rLcw78SY2W4vaKPKpVqs29ufn50bcsYWRZto/93P
mXejYhxFqmkXJa4msqETa7bZtfJ0TLVLrcg4AzEPx+PFjrK+vW0KebmiNe1Gvk46jau9ZglLRiAoXFShKTOszdL1yjVwneK9rt0IwULMnk0kUCgUr8/X555+jWq
0imUzi7t27+Iu/+As0m01DEqzH8LM/+7MolUr49NNP8erVK1SrVfzoRz8yjZVKpSzuIZ/P4+TkJFDqjGQTJ5qZiJwAcglaeYk8g3INRAU874KMOq/X8xWy2awdR
suqSmxhEYmuXanmCxC0I5WRfhN34CIMVyC4SIONfWI/6F0hKltdXcVwOMTa2pq5LcM2g9tcm5qmVL/ft1gT12afTqeBza3jpnkR6p0gaiDCcwWqbuDhcIgnT57g
zp07WF1dtfNRfd+3dZBMJjGdTm3uqdxcM0x5DVU+ihJIGqopwPflelSTUd+ZP6m4XNPrpu1WCAYW2aCdn8vl8MEHH2A6neLf//7//+nd4tBaehZY/7BQKCCZTKJ
UKmF7exvFYhF/9md/hm63iydPnmBxcRGpVAq5XA7FYtGCXlj1SbUqFxZZbfrpOVmuV0EXkB6zNh6PrUYDgACRqLwB0YEWmg3TBLMmVDe0pvkCwerVvI/rKnMXFj
/Xn+7ftZFnIONP9+BoNEK5XMba2pqZE5lMxnIOwu4ZxoXoc/L5/BWXo/ZT7XJ3s43HYwuVn5+ft2s4VzrvSgSSTyLXcHR0hMPDQysBx/fhHJKXyOVyyOVyqNfrV
gyo1+shEolYjsl1qIl/12A7nVOXk3EFqStE3Gtu2m6FYOCAnJycYGlpCS9fvrSaBXfv3sV4PLaCIKlUCsBFted0Oo1Op4OFhQWsra3hu9/9LvL5PP7iL/4ClUoF
lUoFjUYD9Xod5XIZ+Xwe8/Pz5pEAgjUXKQjCiriGufAIo93NzJwICi5yB4xDUFeXEmEucanjo5NMUlNhYlgRj7AgHL6L/j1ssb5Ju1Ob8wQnCtrJZGI1LtjXlZU
V1Ov10IXqPse9xvM85PN5lMtlAAjEfbg2Nd+FApCmBAUDXcMKySlIdAyITJTY7Pf7+OKLL7C5uYlSqRYRKpWLZtbVaDZ1Ox/rAgDPgMkqUZQmVB1ITgP9oEhI5uK
iAwi4M2envrhnxUxkS7fs+KpUKXr16haWlJfzLf/kv7SCYjz76CBsbG3j58iXa7TaAy0pCAPDy5Us0m020222srKzYCVNnZ2eoVquYm5vDaDRCu9220mQ0H5RbU
IKGwUTkKtQs4ASoHan+cIY5Ly4u2qlXrISkC1a1G5GSawq8aczY3ElXAcP3C2sa96H3mxVI45KRrluWz63X6+j3+0in0zg7O0OpVMKTJ09C3cBh93c/o7eGka36
bq7NrtpXuQjCfBYE4nsy4tElBvWe7Pfe3h4ODg5w//59rKys4NmzZ6hUKoFiPwcHB6HUKhbwRlMqk8nA8zyUy+WAEHA3s3JG+j6KqlzzT+fNNVFmmZJvardGMJA
78H0fL1++tCCVVCplZcmn0ymq1aqZBs1mE7u7u6jX6yZUSqUSEokESqWSlTOjhO33++h0OpaHz6o/uhGAy42mkXQMfVZySyMkdXOn02msr68bD8J7um63MGTAiV
Xo7wa6qKtzFkxU3kSb680Ia9dpdP6dAo0eJRVqLO2fTqdxfn5umbKu2zJM4+vn2nK5nBVwcb0+uglcE4naktwPCwYDl4iP60P7oePPDTsYDPDkyROUSiUMBgO8f

PkSBwcHaLfbgUzd58+fY2FhAcvLyxiNRlheXkY8HsfGxoZdy35pdi/5A3WFu0iRaMIVWioofN8PkJ/8ztu0WyEYPO+C3X/nnXewsLCA999/H6VSCZHIxWEpLLhC
hrrdbmNnZ8fqHr569cri9afTKUqlEjY3NzE/P4+TkxPU6/UACag5EhxIXRgkESnR9VBbdUdqyXf9x4NbCbHDGOSbwGm9Xm1LFwm4xKRyDBRYOtb63mFaWq9x50l
/soS9JpKR8CuXy9jZ2bFAo3w+H3o+Zdhz+bv2jWn5fO/r7GbV/Bx/1mlIJpOWDq6aW+/r+77xD2pOzM3NWSbvl19+iSdPnpgpRXMDAFqtliXr5fN5LC0twfcvyh
EWCgU77UxNBY2rAC4D41yPmK5XXse5cnknFbpvMg3ddisEQyQSQSaTwfb2NtrtNr75zW/i3XffRSqVQr1et8IdxWIRkUgE9Xodm5ubliPxxRdfYDKZoFAoIJfLY
WFhAYVCAaVSCevr6/jkk08sMAVAgMi6boOq3e/2lzwEgIBHQTMvtfiJMt8KGfXZs8hGl3hSIUQUot9TMs59T1fDumPgjsOsjcvnMSnJ9y+K32azWYzHFwepanm1
UqmE4+PjwL2uE4juM1kMhwWAdROFCVLXLKDZwPR7svYuf+Sacy5/0u/38fnnn+Pp06dGKpJvoQDhJqdLnM/u9/vIZDI4ODgwXkgjSBm2zXWnppq+Z1hZQHc+3cC
rn1qOIZ1O22AuLCygUqmgWCxidXXVDpulhyEajWJzcxN3797FysoKCoUCvvzyS+Tzeav9GI1GrZz58+fPUa1WTXtyYF2p6pJRRAQcYPVk0IzgPzY1HfRvCnVd+1
EnP8y21b9pP/W7YUSjapM3xS+4Qop/d3kG/p3XsOaB7/uGxDzv8pQqBiitra3hRz/60RWyNkxguc/idfl8Ht1u98r7hb2b+w6E1zyRjMqBm5Zoh/OuY66kH6Nye
72eEeHuIcicn7m5OYtX8TwP3W43YCqQJ2NAFM1WrjUlGXUuWNNS39MV5hoEFTaub2q3QjAAwMrKirlzut2uDX40GkWj0TDyMJFIIJ/PWzVpHjdHF+NkMrEDYXjw
TLvdtnMqeBaDEjW6OMltsOnmpw1ISe9WY9KFpZodCMJU4JJs0ombJdVd4aKhstRqrp3N5pJpLnnF93av1Z9u0+8TOVHTcTEzDZvHDuZyOaRSKbTb7ZnPDjMl9Np
kMnnFx6/NNY/0J00c3/ftzE6ut+l0aqdWcV44166bl4qD8Qp00zYaDbv/ZDJBJpPB3bt3sbq6ilKpZAopEolgdXXVjlfkc8l1kLD2fd/WMxDMmyCxSYGvgkB5Kk
WSP5WCYWFhAe+++67FGdDF88UXX2BtbQ1ffPGF+YFZ8LPVauHg4MCgYbFYtHLw5XIZ9Xodz549QyKRsHMlNBKRQTG6YVVAULMR6hFhUCCoYOCidtEEcFWbuUTiL
G0OXNX46uPWjaO8Q9jGAIIuLDbX++COw3VcA//GeAaGjLPUP82JBw8e2KIuFosWfejeN0yruf3iAUSs0zALBen7q+CnlqY7kfwV51qramnAm3IqjFMBgFqthsFg
gI2NDXQ6nYBn4/Hjx/j+979vVcfoxqY50+l0kMvlrKZHtVpFvV7H9va2KRoXlfGdeMIY31fnn59p+r+aFDdtt0IwZDIZfPDBB1bkIxaLIZPJ4Pnz5/jwww/xox/
9KCC9mfZ7cHBgRWSZgHV6eorpdGonF+vxXC577kLSaDRq6d883YmahklaCuFdhpyfu7xFmLQOW9iufazuVOBSa2i/3cUbBv35PFeDzjJl3L6HwXv9LJFIoN1uW/
UmmoXlchmj0cgQhVZ10nu5v4fxGuxHPp831KHaPEyguehISUjWsQgzAYAgoatcA3B5VkUkcpmbw3+MX6CbnfdjkVt6JJh4xs9arZaFfnc6HQyHQ2QyGSwuLmJ1d
dUCAFlsiPEcyoUoYtK/vS3xCNwSwcBkGRJ3Z2dn2N/fx3g8xtrammlsboz19XVsbGygVqtZnMHBwQG+853voNlsGlPu+74NNkuHUyOwERVQ4LAICtN3gcty9MpB
qA2rwmFWuTYuZPUx6zWziCJ1g+rE8xotI69QEgiPYFQtfJ0Q0d/fdA1rKkYiEQs19zwPzWbTTi5nfQQeN+i2MFPHNXk8z7MCLkxMm8UzhKElzv14PLaIVPIiOp6
cK46t9omHLUejUWxsbGBlZcU27oMHD7C8vIzpdIpisYjxeIxarYZarWbFa6j9x+OxpQGw/P78/Dy63S46nQ4qlQomkwnW1tYwGo1QLBbtDJBMJmOuX+4JngzGd1
fOhILibdqtEAzD4dAqPfu+jy+++AJ/+Id/iGKxiOfPn+Pk5MRg3mg0wsbGBubm5rCysoKVlRWMRiN8/PHHFrZK99jy8rLVCCAEdCE+tQ4HmPYb3Wzn5+eGIkhYK
T/ARsJSqym5jRLc1dSzyEY+S80U3eRqa4eZEu739f+zzA32S/8eZkpoozAk08+5Gg6HqFardr7o4uIistksKpXKteZJ2DPYF6bV1+v1wDsp9Odn7rhyDMkLpFKp
wEnkSvp5nheYR3Vbsg/37t3D9vY28vm8CRv+02PyWF1sOBzaBi+VSvjhD3+IRqNh/aJiZOLg3t6eFb8hX7O4uGgnqfEcVYacx2IxK3Srngs1X2/aboVgODs7w/P
nz7G3t4d+v48f/vCHODg4wN27d23weCTd+fm5JVjRI9Hr9YyTGI/H2N/ftwFjGTJNleVGBy43BiUwYxaIIjjRJC6Hw6ERbbNILhfGueaLan/Xm0ABo/1TAcANpE
gBuBosNIuD0H66mzNMmIVpbf7k32KxmEWYUiCk02k7perhw4f2Hqurq6hUKjNRgWtOhC3obDYbqNzsakMldTluqggYc8F5JTKkgGB0rBLU2pdCoYBsNmsVopaXl
zEYDFCv17G/v29E69bWlvV1NBrh6OgIvn9R2erBgwf4F//iX+DFixfmKaHAyWQyWFpaQj6fx2effWb8AzmRly9f4tGjRybAKSRotkUiF3U5NbrXrR72pnYrBEM0
GsXx8TH+/M//3HIbstksHjx4gKdPn1pNQf77/PPP0e/3USwWkU6nLVQ1FouhVCphf38fR0dHWF5etrMUGQClWg241IgMleXpVup9IPdAxEIbk3CWi0lNnjCIG4Y
IXGmumlM3jC5uNRmIdvT7LhMdpvX179pmIQ73Gm2RSATJZBK9Xi9QGRsAKpUKhsOhCY5SqYTPP//8SjjwLCEV1sd0Oh0IrAKunuykQtp13dGbwCP7KBg4lipEuP
b4f6LRVCqF8/Nz1Ot1C3/v9/t4+vQpTk5OsLa2hlQqhcXFRYP+PF4xErkMgiOCoVnU7XatxmmpVLL3ZH8LhYJFW+bzeUO4xWLR6mvS0+FGRb5NuxWCIZVKodPp4
PDwEKPRCMlkEtlsFuvr6/jTP/1T2xT0Nz99+tR82pPJRRHSRqOBd955B4VCAZFIBC9evMDCwoJV3dnZ2cHBwYG5gDhYOuk0FZgirZlztE958rQKA/7Tg2opXJQd
5qIM0+KeFywQAgQPL1FmnfdnX2dpXY3B4OeuDT8LEfD6Wd4CvR+1FlGMngdBm5nhwfl83nIWwu7pNrcPREuZTCZQrUkJ2VkmGQDzMvEfa2fq2R8U/Hwfmpb0frH
2Qq/Xw2g0QrVaNdOVrsh6vY7d3V0MBgNMp1Nzs1erVRweHlqwHoO2qLCY11Mul9Hr9cwk4Clt2WwW2WwWjUYDa2trhmQTiQR8/6IcHSM75+fnA2vobdqtEAzz8/
MWtky2OBKJoNFo4OTkxIiZyWSCVquF+fl5rK2tWTw4azpms1lMp1MsLi7izp07JiQODw+tnDkH0t2UtAfr9Tri8bilSQ8GAytKwg1Am14rLFG7UHPRNcqNy++EZ
cxperSaEioM9B4ui64BOXq9us9maeVZ/IErIPTvYQQhBSl5AAq50WiE09NTLC8vB7JO3VOqZgmGWQRpNptFrVYzLa9j4KI11+Tj2LC6E3M6OJ5UQJp2HY1GsbS0
hHQ6bRGKnudZAaHDw0NkMhmsrq4ilUphf38fx8fH6HQ6hjLi8bid4n54eBgIsnLXymAwwPPnz41ojcfjGAwGODw8tKxihl5zH6RSKUQiEXQ6Hfi+bxxZ2Ny/qd0
KwTAej3F4eGgVaxih9sknn1gQChchWW4AFvu+tLSE7e1tPHv2zNxBjE8/PDzE8fFx4Og4AKESlPHuJNPm5uYs8SoWi9lAE0GQS9ACrYyNoJlBaa2mCTe3usYU7r
pEIrUYhQbvww3oatQwpMC/qQaetVjC7PwwaK+/E2XRbKDAOj8/x9HREd599134/kWsQKlUwsHBQaB/1xGcKsT5HSIUFkNxYzLcMVaPj5oTLJ7D2gm8loKDwiGdT
hvRzbXCv3U6Hbx69crS65nwxZwI8lKs3NXv91GpVAIJXIxzoPJiDU32++zsDEdHRzg9PcWjR49wdnaGzz//HMVi0aKBGZ9BApKKjejobdqtEAzdbtdYZmXZP//8
c/MUcABJ/DCghhuUwkJTqnls2sLCAk5PT5HNZk3z67O4YFUbczOwyOh0OkUmk0Gr1bKJI6x1M+SAYF0+CgpFDSpcKDy4IEejkX1fkQkXLieaAmxWFp56MVwCTa8
FZrsl3XuyhWl7LdwCXML6arVqNvLZ2RmWlpZsU+tYa9P+uLEjwEX0H6G5krM6t/yO+wyac4xypZ3O8aVZpyYJx5rRuL5/EROh3jJGMnqeh+XlZRwdHQG42NT1eh
3JZBK+71vlc1b/0lBoJu/xqAOuS6JZ3/dNENRqNdTrdWxtbSGVSqHX62FxcdGISLpVmaX8Nu3WCAZCOWpD2kqUzPQQ/MzP/IwFgFCqD4dD80gAlxmU7XbboN3u7
q4tCGozhZicAIajUoszVZfnUFBDcfLIcDM0mDwENzs3iZJtwOVCo4BQ7cP3Y10IstwMHGJ/GYLrEk0ux+AiBV4Xpv3DyM/rkIWaFKyQpPxFNHpZ7o3mH8vhK0kZ
JpRcvsDd7Pl83k6IUsGggLADgDjuyitpTAOhPceX/yjEtNYjTRhuWj5nOByiXq9jZWXFuBRGWTIoj2XfyG+wf4yrGI1G6PV6FtSkjeNJBUMBkMlkAMDC/zku+Xz
e+JG3abdCMFAoAJf2H6sOdzodg1cLCwt4+PAhPv3000CUWqvVwpdffolisRjQ3nNzc8jlchY0pYuIGvo6SD2dTpFKpZDP540B5wLo9/sBbwlhqd6XG1NDp9m46O
iCojbk8Xt0n0ajF+dC5vN5yxEhm04PAK8DghGVrv8+zCRwNb9rlvCasM/dn25lZI7X+fk5Tk5OUCqVbFMtLy/bfLC5nhf9GSYgOAbU7oooKCQ010Cboj0ABvEJ3
6m9GfHa7/dRrVaxurpqY8bCvkyiondjOp2i1WphfX0dn376KSaTiwLBvV7PInPVJFRCmhmVSoCqwvM8zyqi81Q2roF0Om0l87PZLCKRCHK5XCB25qbtVggGNkK0
VCqFb3zjG/ijP/ojy1Ykd8CADz1Sniw4EEx00U1KwkYZfw68akZl/DV2gGYEYSYnTp85GAysahGTbNRW5WLQxU5ORUlHPZ2ZAVrlctnsahaqWVxcNDegq6V5f9W
gKhhcQaHNtdddU0L7yuuIXGguMJmNwT7Hx8f48MMPjZAslUp48eJFAN7PQgfKu7h/oysQgAUfueaUjoWOCQAjGllJmihGvT80MbrdLpaXl23eSbZyDdJ1TS/b/f
v3LddncXHRlBNRItcf1xT3gJLarvk2mUzQbrfNM0KhpMoll8thc3MTyWQSsVgMw+EwkPJ+k/ZGweB53gKAfw1g/vX1/0/f9/9zz/MKAP4ZgDsAdgH8Xd/3G6+/8
w8B/DKACYB/4Pv+777hGcYq+76PnZ0dPH78GL//+79vRBZJlL/4i78w2MSJ6PV6WFlZuXih1xKYbkkKAqa4uouamsWNJ6Cknk6naDabgapPrnbitYR04/E4UKdg
NBoZlOQzNAmL/WBRXLq3WM6MKKJarRpBlc1msb29jQcPHgTi+Hkv/lQzQr0UFCR8/1lNr3PdgC6KUALS8zwTkAAsQCeRSGA4HGJxcdEOgmFfw9yM7mcUrnyHxcV
Fs71JLLoCTOecz/G8S7cwT+nWY/9UkKjZSHRCYlnvTSFPPqnT6eDdd9/Fl19+iW63awVjiSBo0nLsdL1yzBWlcizo8WIaN3OFGo0GcrkclpeXrb/kwlx09qZ2E8
QwBPDf832/63leHMB/43nevwDwtwH8vu/7v+F53q8B+DUAv+p53nsAfgnA+wDWAfye53nv+L4/kxalfUrianFxMXCWgO/7WF5extzcHBqNBjKZTCDVV91VnCiSk
5SsHEx3IlUwAMHisExUIeynYKAngpPpEn0q8bkRaXooI64bVUlR4DJHnwVKms0mer2ena51enpqh/jeu3fPFpqaEnxHVxiwudeF/a6bzN0IvFbvS1tWtSDjGVhg
h+HpmUzG7HpuePe5rmCgUGYjP6BwXAUdN7LOLzcir+eGZCVpIjDfv6zhQJKR6E/7yEZlwVyQvb09fO9738OjR4/wySefBA7CYcCckoJKJLvvrf0FEFj7w+EQ/X4
fzWYT6XQai4uLePXqlZnB8XjcIkVv2t4oGPyLt2c0Svz1Px/A3wLwV19//lsA/hDAr77+/J/6vj8E8NLzvGcAvgvgT970LGqCRqOBP/7jPw58dv/+fQyHQxQKhU
DgCX9ywskxTKdT0wDKMKu9DVxqamoBnRDf9y2mgRCY3+E/9SDoqUYkkciXMHqSC472rG4GHuem7spIJGJH1pH1JkHZ7XbNdk+n0zYu3CR8b24ERQezCEZXQMwSG
Pp/3Yw0gzjOJOZoTmxubtq1KysrqFQqV8wIjrHOv5pC7rWZTMYIOZdv0ZBp122nioHCg3a6jp+6uklW8r5EfTSf6GngXJ2cnOD999/HH/3RH6Hb7Vq8h55NSs8B
31vfU8lTVRpqKlNAtNtt40KIJBh9qWkAN2k34hg8z4sC+HMADwD8H33f/1PP81Z93z9+PQHHnuetvL58A8C/k68fvP7MveevAPgV4ELqU1J63kUl3UqlYqw9Qz6
Pj4/NjKBdxcQrJfqokRcWFgIhy6/7GvBp8zM+XxEAJ4KaHri0Adk4MUQKrsBhGjkXp2pWnpPB53NxscQ8FzIXI6MueRp4r9cLJInxGtrZuuiVgNL3UyHE/rkcgz
NvgWsVFQEIxFdwfviOLPdGtFcqlfD06VNDYqoRw0hIHVv22fcvAnlOT08D6dDsn7oCCc31/pw7BtHxfFMNPuJ9tZ8cUzUrWQCI5mAsFsPh4aFF6T558sSOIOx2u
1hcXDT3prs2XdJV0ZAiZAp8NcW4/qlE1NS+abuRYHhtBnzT87w8gP+P53kfXHN5GP15xYj1ff83AfwmAGQyGZ8bklqXG8v3L04R0gQmIgQWuQCCh65QYzPxSifU
nVS1SRV28z7Mr9CYeb1eNb6Sf6zEw9Bfstx8DxKJlOTT6dTKz9ETQ4Z6MpmYRuTYMFWdhBkhLgvXkDEnl6EcA5+nGl/fQTWuKwT0d9fMYN/m5ubM3crCKJ53WVY
+m81avYGFhQXLsVAkoLY17+uSoWypVMoIPxcVuCYd78n1o9CcRWaY/hy2OTVqVjc1uTCSmRynTqeDL7/80jxI9Xod7Xbb4hroVdBnqcBh33UcqEiUsOQ/nQv+nd
Gnb9Peyivh+37T87w/BPDXAZQ9z1t7jRbWAPDJBwC25GubAI6uu69CX/IN1CrkHXhaMXC5eDmAJLg4gBQG1J4cRC5m1w7l89nUVGDKLAOo2EetueDa6qzrwEIbz
WbT3JK0Cbn5dBHxs9PTU0SjUTvTks9gnABRRDQavZK3MRwOLXjG/adwVOHqdSbC63m/Yk+739HG074o1IhQBoMBqtWqEbRk0Nvt9hVTR8dX+6D9UCHBJCa+E5Gj
RoYqilJeh0KHdjv5I3WjE6FqqHSYQCRK1LDq09NTpNNpO9KA92MlKvZBN7jr8VL0R6HGptfqGldB6OamvKndxCuxDOD8tVBIAPjvA/jfAvgdAH8PwG+8/vnPX3/
ldwD8E8/z/jEuyMeHAP7sTc9R6TcYDCwizfMuXIUUAEwWUeKIWWpA0O1FssdNOXULcKiUdu3Xfr+PWq1mNqHbuPjCPB2e55kGj8fjVsqLLsZer2fnXhAJAZcuKJ
6ylcvlLK5D8zaIoNS7wT7xTA0KKsJkDffW7wBBwk+18nVCIKyRZ2DTjNbj42PcvXvXxp2H3roQX/MGdMGHmYKRSCRwxCE3GjeFChTlkfRaTa7iYcPNZtN4BqaU0
3RV7ewKQCIHvnur1YLvX3hQNNS+3W6b+cjT0dgXzrErCPlMN7FOUZLyShTAbj7Nm9pNrl4D8FuveYYIgN/2ff+/8jzvTwD8tud5vwxgD8DfAQDf93/sed5vA/gM
wBjA3/ev8UgAwRr6DKvlJuUpROQM3I3MkuUcOPpt+X9OKlsY261svst6Uzur9nBdm7yvLmA33DcajZr2Z2ENjXugpslkMigWi+j3+1ZpmYupVqtZ0g95BJKfFEL
uhphOL1y3vV7P7qM1JqgdXcGiaOJNgsFFTSTgGBE6Go2QSCQwHo+NC+DnrOqkJK4KW9eUUDexCguiIqIGjom+l25cXsPP1eSkJ4hmqhuKruPjVpEicuDz+V2ah8
lk0tLGyb2wWAyDq4gudV2xcT2peajCU8dHg7v00N+btJt4JX4I4Fshn9cA/OKM7/w6gF+/aSfIBlMjMq5eB/3s7AyZTMZciCS2aPMpJKPtyEHSTa0kFAdW4asrX
QnXKbh0EtjCCDx3QepP+vuZXz8ej5HJZPDy5UvjVAj9J5OJlcTvdrtot9uo1Wp2eIkmUnEsFJJSs5ElZ0yF53m2OIkk+EwNkGK/rxMOKkz5OwOb5ubmMBgMzNxj
TEY2m8XZ2Rmy2awJDR1HPptoT8fe/cm5W1pawtHRkW1IKgY1IbgmXDKPjS5g8jVEZFxf/D/7xPWjuSyqrfk+dFES5U6nU8vR4GleWulJw6x1LbHPSrRyztWTw3V
J1Owi4Te1WxH5GIlELMEJQCASUOPRNb+ck8vqN7owadtxsDhh3Jg64Cr9VQLzXgBMy1KrcPGwcfEpzFN4z8g8dZtyE9OtxEIn9EdHIhfuT2bM+b5vSILQlKGvvG
UUHvvH9yeSUL6FC5aHoFAocKEygcc1UWa1MBOMxKt6AkjmVqtVFAoF+x6DlJTI5e/qauQc6vFr/Od5nh1MpB4OzqtmpJoEM/kqZsRy/bAyEr9Pc0i9T3wv9k3HQ
tEmA9YA2HhzHmKxi7NOiZZZ1EXzNdRcoHBRno2/c3wYB0M3eSKRwBdffPHGuWS7FYIBgG16ngmhASeEyNRsHHBOoKvhmeLKjU/pq0QUEHQJkbRT+xG4CIzSVFst
ugkEfePqklStx2epQAMQEEgAsL6+jqdPn6LRaKDb7dqEMp+fNScYtMXNTxOMpBijMLkZKMg4jjpmungZnUmPCNGEZoKy32yzNBH7SKGpAr5cLuP9998HADvT8cW
LF4FCsi7y4fhxE+gmVBNPkSbvwfdUDa/zpN4kPiMWi1nkqZonzH5kH9TkUU6A60jjGwCY0NU8GwobmhZEDf1+3/aDVg5zTQbuBVfwsa/FYhHf+9738Ad/8AezN6

DTbo1gUNuM5ba4qNRFqRNA24wSkvehnah2oMuq6wKjRuA/PehWN5nGFIRFv7kwTwlSAIFFrqXseS0/i8ViaDQaaLVamJubs5x7hsDmcrkAEqB9Tm3PDUiTjN6dw
WAQ8FBo4VpuHC5+5mlwwVLw6IlJujh1XCORiPWDm4LXn5+f27kfqVTK3m95edmybHWsqVWVPyFaUzJSPVQ8jlDXjUaWcrzdn7qxOXY0Xzmm1N4alq1mkCIQ/p/C
Q1EP1wGFNJUZYxQoQGj+kXfj/9Ucohuca4J7gftgZWUF3/72t99qP94awcC2sLBgB5P0ej0Mh0O0Wi3zPJB4IfFGXzBwGajEGAZOshJGCvvUBlUtSljO64BLdMH
4AI225N/1WkUPulB0IQKwAKhYLIYvv/zSTCMmYakbr9VqYTQaWRlytX15wO/c3BwSiYQFZTHj9OzsLKCBaG6oh0JtVEJSfo8oQpGEjpl6EXzfN28MBYMKkGaziR
/+8IeGglgzkQfVUJBxE3BDKprgplJOiMy/1j7k5+yfG64OBIOY+JMHwvA9VVHos130pwhKvWHR6EVaNXkjRS4ud0XBl0gkrgTpUQhwPLhOOPdEDb5/UbdhaWkJ7
7zzDjY3N99qH946wUCTgRGOXMisOqybdjqdWiARNxtdfWTtNSxYB103HAeTmlQRAwDbCJTAWrHJbRQECr15LaEy32k6vTiUhRri1atXuHPnDiKRi2Kh3HjpdNrG
hR4Gvi9NK3pjBoOBaTs2RvPlcjnUajVjyBVJqAlBjoQCjSYUkQRDe0mgut8jlGVlJCCYjMX6GfF43OI9crkcEomECRSGgHMzEE4zPoACxB3vhYUFO5SGnhE12eh
2VNOBc891wo1IwRyLxaz+omp6riMVXOQiKEwI51n9GQh6NxSBcM1xjXMcOZcapEeehciMwpv3zeVy+Pmf/3mUSiVsbGwY+XvTdqsEAzU43VlMlvI8z/ICmErqeZ
5lXDJgSF1rvI7XqB2ptpiSjmxqYijsU4Gkv/OnkmcUAJPJxKA+iTHandHoRRUeAIEiJ77vW6EOz/MsPDeXywXGSskoohhyIEQmPG+ARV+YrKZIQjcdFzjNFCIKL
nRqJ4457XrNAeD1zDDlGFHLMmKV/QMutCOFRDabtdBh3of1PCnMaIdzbDUrUSE551PjEXQOOQ9cN5ocR7TDXAxqaP6Na0o5EQoCjjn7pXUWuNnJZahXSQWrok4K
Jf6NtUv5GYVHJpNBLBbDgwcP8N3vftdOf6cguWm7NYJBXYBccBzw6XSKTqeDdrsdCNQ5OztDo9GwIikknhTeuSGy/FyhoeuZcN2RwGUQidqOYbEMnOBOp2O2IeE
fS5yRWHVDtulaisfjljZOEpUTq3kQ1NIcMyblAJd1BhjHcHZ2FuAXGI5NG5rHpNGWpTZWjwVwmS7OcaX7k4KEWpteHI6Va8qRA+LYtNvtQFEe9o0/WV2av6sHYT
AYWFAcBZbWR1C3oLoa1dPg9pX9YtwIIyt5aBHXFu+lZh/vTcFIYalciEZ2UmBwbikEXGJTeQ0lUEmUxuNxlEolFAoF3L17F6lUCpPJxLiit2m3RjCofc7FoxOgb
C2lcTweR7vdRrfbDZwAPB6P0Ww2zYeugoKSWO18IBiSrIiBf1OyZ1bfubh4fgAXL+/bbreveDC4MLhgKOS2trbg+76hBQoPtfe5AFXDUcuORiMrLMKNRxI1Eomg
Wq1akBOjK33fR61WQz6fN/ueGpqkn6IDQlcKY2pvLkTCbAoSVhfimJGUpOlGBNNsNtFut3F6empmhZocPFqeZe8YUUoh0e12LTV9MBhYkBgFIn93x1FjPbjOmD9
BVyJJXib+ua5qrlflN5gXw7XN8VLkqdwA1wcFgUbFcp2dn5/buZkMvc9kMnY6G3No+F03+vdN7dYIBh1gNk4kpTHtME0a0mPjuIHj8TjK5TKi0cuyV5TKyito08
9UIKkmUJSgUFQFCABDMrwulUqZqaCuUACB8xOVXP3ud7+L0eji6D02DepSyErorJpKffvz8/NYXl62knGNRsPSvrlw0+m0jSm9Hlp/UANvSJgqStDxpTBR/iYSi
aDX65lgUD89I1qJZrjhiEYY+0A0QRcuNTmRBc9eYJn3o6MjNJtNNJtNI161/oOiJw3uotkFwN6Fv/M+5EN0DSiBSxOXcJ/8lJKfKpDUQ6Vrmf/XJD7gopbjzs4O
dnZ2sLi4aHVBPc8LIFG+59u2WyMY1L4mS8t/hKWUnhxEFsJUppokIcki4PJAWyCYVszn6gTx2cpSu8jFRQjue5DJV/TDCaN7kRqkUCigXC5bfUpuNB5m+u/+3UU
GO+1dN9iFi0Ez/fgOXJAUDqlUyshLkqgabUf7ttPpmI2fSqUsSrFSqZigJalIDcx6l+y/Igi+P99DhUen07F3oJuTCzmRSARMIvIzPBmaEDqdTiObzZqZQWRBAp
OH3rRaLTtol+XiWTKQ64deF/aRmZ/kZxh8FBZNS3ch1yrfmf3W51CY8nciCQpXckgUDC4ZvrW1hfv371sJNy31xtwe4FLJ/VQWg3WDTrhA1UeskEvzBBgVqDaim
6KtNq6aBO73NIoOuMzhcE0L/s19B/YPuHRP0SPgeZ6V3KKfPRK5KIpKdyyjHwn1ARh5ylLg1OrqV1dG27Ul+/0+0um0oRVu5Ewmg+XlZZydnZl9T6b/6OgI2WzW
3KYUKsyYXFxcxGAwuBKAQ3OOAkJ96gDME6JeHf4/m80aiiGfQsJOg7eU2yCiIMHKsc5ms+YCZXDY0tKSvV+73Uaz2TRB0e127VQpN5iNMQw8aYr8gJpvLl+l8Qp
uHIsiO64jJTFd7c51RwHh+76ZfhxPCnb2jYckKQek+UI3abdCMHDhk1RUO14HRTXSZDJBKpXCysqKwc3T01OT2sBlhacwXsBtmpZME4T2L7WhagEKANr+KtGZ6b
e0tGRseq/Xw+rqqgUcEdIy9HZpaQmdTsfyII6OjkyD0WwAgqdV0UPAvpDVpleAJgdwuSgpIAht6cbkRj84ODCPAWMdaM+Twc/lclhcXDShwJJztNFpfmnEJH8nh
0KTKZlM4u7du3j48CFarRa++OILnJ6emtmk9rzehwKQCGY8viy9Xy6XLRGK5gaFRCqVwtraGtbW1swsYn2EZrOJ09NTVKtVExi8N2MKaPYol0OzR92q7BcrchG1
KQFJQcc16nJYRBUUTqrc+v0+Tk9Pra4F55wJWlR6FAjlcvmt9uStEAyEpgqhFGYBlwOnhNfc3BxKpRKAi3MEa7UaYrGY1U4YDAbmDtQNpTady2uwD4SwYdF9+n0
y4ZzU6XRq5z8sLi6iWCxaWC0rMxFu0qfP+/Pv7BdhNhlrbmQVFEQNFDZk0nkaEQWDpqCzEInGL6RSKTuYhwiHi7HX6wUqUdFtzE2Xy+XQarVwcnJiAogcAgU4UY
66zRiu+8EHH+DOnTsALgTln//5n1ugEj0OipToIiVEVnRJLU5zrlKpmHlAVyiPkydxWSgUsL29jbOzM5ycnFgFsUajYeQ2z5c8P78oUbe8vBxAmewLzUQKByqAx
cXFQHAU35UIQ1GGrkd1rbORoCW5reuz2+0ilUqZB4+KgAj0pu1WCAaaBb1eL2Cn8W8u7Acuy783m00UCgVzI8ViFydez8/Po9FomGBQU0UDSugyI+PMaEJqQwop
akMNYCGaISzkpibbTxeq2prKU/C9IpGLIiaEvOwri3pwQ0QiEUvdVmio9jCZeR6HRlcvS6wRbmtlKdq/RAfU0HSVctNRaL948QLz8/OmiVlvMh6Pm1tRS98TbXA
eOM7n5+fI5XJYX1+3YLXHjx/j9PQU77zzDl6+fIn9/X3U63VDNdSeDBCjsNJoSPaTSI5ehlarZTwUj5KjoMjlcshkMtje3sb29rbFWjQaDZyenqLT6ZgbmmmYITT
vOvRKaruKhEiAi1UApEuYUEPzHseJa55o5Pz9Ht9vFdDo1hcG+MICLHBvjOlyy/U3t1giGaDQaCNOlcOBCUMKRWu78/BwHBwcBbQLAJp7XAkGiUPkK3dzK+qog0
Oq+XNRuYAvNHX0fEnAaFaebnNeRcaYW5uKjRufC4CLUewCXi5LvySzNaPQivfvk5MQ20eLiYkDoctOqz5/91mQ0zQbkd+kCVT89zS9WK2Z17MPDQ0NJvK/65Mfj
MSqVCrLZLEqlEra2tqwy9ng8xuPHj3F0dGSxFtSUSthxDDgnJOC4MahhKbROTk4MLbG/xWLRTECeXv3w4UN0u10Mh0M0m02Uy2VkMhkzFRhDoe5d9VaRP3Ld0uw
r15H+5PqkYFYOy/M84xS4VhnzMh6PzWxhyfqbmNJuuxWCAQiezRCJRK6kUutm0HgE1rPTwB/gEuIrNAfCqyErlOP3NXZBPSRudCMFhOYNhHkteI0mLvEaag6y9J
PJxLQbF7fbtGgNCTw3pp8l3iqVCgCY249jW6/XUSgUzM8+nU7NduaG4/hoKPnm5iZWVlbQ7/fR7XZxdnZmZzMwM5R1GFlUhpwBg4/o6iOvsrGxgU8++QSPHz+2Q
jaVSgWRSASlUgmPHj2yudjf30c+n7c4D2pGIkBXUGgMg9r3/Edu4uTkxCorZ7NZFAoFO9iHpdhXV1dx584dm2u6fxl7QU8HzTqe9aDuWM6ZhlKr50HXIPtM5aBe
CiIo/qQp6nkeNjY2zBRWT95N260QDEowjkYjtFot8/+7LK2ywRxsQkVCMqKNXq93ZXPyeUAwJZifUxhokhQnk/YghYMb+6AeARVeqsn4j/2izc3Tgk5PT1EsFgN
nUGj0HgutErkwOIjPoCbiwgMuiqMwXJqmRqFQwMnJiSULsTArzSDVXITtRE65XA7b29sWzNTpdNDv963q1Pn5uZGorFup40HTxfMuwr1PTk6Qy+Xw2WefWQDTJ5
98gufPnyObzWJ1ddVO3+Kpz++88w6q1Sqi0ahFidJEBBBAWERAKtw1C5WCQiNAT05OLDo1k8mgUCigUCiYt4Ou0mw2i2KxiF6vZ14OEpg8COf8/DxwGDIRLwUw+
8hxJtogt8S1ysZ1zjnu9/uBd9/f30e320U+nzcF95WUj/+P0Sg5Cc/IWqs9r1GEwNVTklQqMp5BzYawGAb3HxB+TiIXDr+nbibXY6GkFDcsN7mG0fIesVgM1WrV
4CrtYGZTElFQYFFYsCnZxb6qG40uScZzULjxsNlarWa+fy5czTOgt0jRGBdtoVBAPp/HcDhEuVxGt9tFJpMxTxEjNRUpqWacTi9OJR+NRjg4OMDz58/x/e9/H8+
fP7czJ0jqFQoF9Pt9rK2t4eHDh/Z5NBq108wBWPyERl9yXPh/NQU5vhTG3HDc0I1GAwcHB2Yi5fN5e2/lWTKZDNbW1rC9vY1Wq4VyuYxisWhmJb0WRJf6XCok/u
N7cc24YdJUEsp/aVDVZDLBvXv3Aol/b9NujWBQdlb9wbRRqcE5QFxUXADAZeJSpVIxnzM3HwUNgMD3CT+5qZWT0JBX4BJxqEnhmhe8Ts0gF7Uoi0whQPabpgOfT
dtUtZ760Xu9npkGCvlJaPJ3Pd8BuIywY7AONSXPRKArlOSW8gGEypp6Td/6wsIC1tfXMTc3h3a7jXa7HajhqSYgeYnT01McHR3B9328evUKv/iLv2huWpo/PEG6
UqmgUCggEolgY2PD4H+1WsWDBw/QbretvBuRKLWpCm8XYXCclIBVTwdNU3o66MIlmigWi2Z2JJNJbGxsoFQq2UFJrLxFjoREMceRz9f6EfycilLfiQpEuQeSmhw
7Rt+urq7+5VeJ/o/RdLFSonKD0FZjsA03BAWEBvdQGx4eHlquAJtLThE9hG1ct6lA4feB4OGvLuvrBm0pUanfp51JDwgXrOd5pplIaBF6anQmmXJyA8BlxCCj+p
aXl80LQKKMApf9m04vk63S6XQgGIcLkO/D/5M0ZcwHiUrgYjEuLS3h7OzM3H1EAMo3TCYTOxaefYxEInj48KERluPxGCcnJygWi6hUKuj1etjb28Pjx4+Rz+cxH
o9RKBTw+PFjK7LLKsz9ft+OgldXuOvm5E+iCUUSarLRZclxb7fbOD4+RjweRzqdDggJ5jHwVGoGTbF8H7kJIjoKYyI6RoRybClUNa6BIddEsRqJ2m63EYlcnKBO
79xN260RDHQvAbBAFH5GKEgWXaU+BYNu/OFwiJOTE9NUShLqBlaWn/CLg6wbmQtKn8d+q3ngmjnA1VOlXdJxMBigUqkEYC5wYceTrOSp0TQjJpOLQiIaA0HPAQN
ufP+iSEskEsHKyoqVjfM8z+ICmI7L91JyjofPuu/C36nxdQzoaq7VaiiVSpaynEqlkMvl0O/30el0TCCwUViMRiOsr6/D9308evQIf/zHf2zFeA4PD5FIJOxMxq
OjI7z77rsolUo4PT21uILNzU1Uq1W0Wi1DHPfu3cPx8TG63S48z7PNz35w3vj+bng834vaWHNTKCSYvHV6ehoIHKOgKBQKxuXQ20HEwIQxCtB6vR4gF8/Pz+25a
n6QryGhS1TJLFAivMPDw59eU4J2K6PquLi5EUejkR3Fpn5bZaSBy83JyDMuZEpZIChQSCIBsENt1IxgY39cd2UYwgjjHZRIZItEIqY92HfajdT61WrVCrZycgkl
qfU5HrSBCU83Ni5OBlxYWLANtLa2ZlGK7Ju6NklqJRKJQK6DRqROp1M7XFhLvk2nFwVCyuVyIAaE0Z2sa6BeJvrvqcXfe+89+L6PlZUVpFIpVKtVnJ2d4fj42Dw
AW1tbxl8kk0nLZdjd3cU3vvENizbN5/MAgI8++ggLCwt4+vQpYrEY2u22hZrruBKBEplxvkkM8ho1H7lhiTgYGMczJF+9emXzQl5ieXnZyvVReGxubmIwGKDZbB
oq0iMEOBdq8pIoZp+41inQ6elqt9sWCHjTdisEA4kZBs0ol0B/MSVop9MBAIvOcyG8LmTeGwjmMvAzbsJsNmtHpYXVitRQaTadCBdq63vp84hCtG/cKLoouXEYI
DU3d3HKN7VDo9Ew/oG+82QyaQvO9y9Smskf0Mc9Pz9vh8rWajU7IYmJXRrOzKpYFKKaRRmJRNBut3F4eGhuSWYbZjIZnJ6eGqejrjnlONQNRyHFpCDf95FKpVAq
lVCpVKwqFatOk1M5Pj4O9Pn4+BiPHz+2Iq4sFbe4uIitrS2cnJzYBmYk5/LycqBGpO/7gc2mqfy6+aloNFiJQoK8BK/TNHD1dNDcWFpaQrFYRDqdxsbGBjY2Nqy
yVqPRQLVaNZeq1p2gyalmDz0RFLYMqqJgu2m7NYIhGo2iUCiYO46N0XuaJ8/MPk6gamHgMoPP1dj6EwgWPWGQDjeyuoloXgBBrsJFAYoewrgLLiK9H33uFGiaDM
M6falUCvv7+7Y4WEi1WCwilUqZcLl37x4ymQwePHiAyWSCf/Wv/hUWFhYC7qzJZILFxUV4nmcBRYuLi0YUMoSX70qWW5OkuFlYJi6RSFhBFULsfr+PxcVFe8fxe
BxwmVEb8/dIJGLxAezrw4cP8fnnnxufQTOgXC5jaWkJe3t7qFQqWFtbQzabNddloVBAvV43T8jR0RFyuRzy+bzloMzPz2N7exv37t3Dxx9/bDwPU8wpvNWUoHuc
QoTzTIGi8SwU7KpkyB8wIvfg4MDKGBYKBSwtLWF5edkCrIgmdnZ2LKuUXhIKGwoJjg37re7/TqeDo6NrT4m80m6NYGB+vZtUQqHA9Goy2tyEbgCQhjqrt0FZXfU
yqAZLpVKmYVljkgQetZ4baKVsO5+jz1OOQfkIJYv0+/z7wsICFhcXLQLv4cOH+Pjjj/HkyRMUCgVDAw8ePMDx8TF838fa2hra7bbVPCQpSc1PTwELnRAFbG9vW3
BVpVJBrVYzqKqbQJPFyGfQjmc8AyMkGcZM4U1PCjNIOf7Uuq75NhqNcP/+fTvbgeRqpVJBtVpFqVSyBU+lkkqlcHp6ip2dHUynU6t18fz5c/zsz/4slpeXcXR0Z
Bufqct7e3tot9sWZ8CUbM4LN5i6GWk6KYwnmqCwV7ODQkpDnt0oTEbs5vN5QxJEE4lEApubm9jY2LDUb9aaqNfr6HQ6OD09xfHxMVqtlvFI7NNPZYBTNBo15piD
zUnhUe/D4dAKnnBBkpHVMmIapKRuQUUKuonV3akkFBcAS7Zz0bqCQE0KRRXqfeDfXHPD8y6zN7n5NKV8f38fq6urZgLQFfbzP//z2N/fN5Z/a2sLR0dHiMfjGAw
G+PLLL22BqvnDBCz2gyXkGBbMjdzpdEzbsUakMuYkw3gfCjyWp49Go+Y2ZF0HNTWISjhHREz7+/t47733TPPzkJZOp2Pzm0wmUSqVrGBLJBKxhKK5uTns7+8bN7
O8vGwxDp7nYWtrC3t7eyaYmIiXz+dRrVbtntywhULBCD5mTTI4i65E8kJA8MRrDbDSNaHIkd/jBh6NRqhUKqhUKtjd3bUU8kKhgOXlZSwvL1teh6aSMx5lf38fL
168wP7+PobDodWh4Hmbb9NujWAgswogIIlpU5GJVQ8BuQndhJpsAoSf3KxuR8I/fp9/o5bTQ3RZ5YjNNSFc74cKA9WOulmZIVou00rTadTNJtNq0BEE4JFQ77//
/e/j0aNH+OEPf4hyuWyMPO3mvb09JJNJe1dqs0QiETh1m8+icCCnQ0JzNBpZWjszVzURjOPNdwdgHhRuTsZmsOiLBvJoHAFNk+FwaCin2WxaLker1TJt+uGHH+L
s7MxClal1WVDm448/xmQywerqqhUxqdfrlvZOwpOE5urqKj799FMbG/IJDx48wPz8PHZ3d004aOFcjSsAEEATRBQqOMmlqDeM649jzrVNE6DdbuPg4MC4nMXFRU
MRKysryOfzFoG5tLSE7e1tlMtlnJycWCQtzY96vX7jPXkrBIMOFvkBBmlws2SzWQvUoQ1OQnI0GiGTyQQW2az4BBUa/DzMlan2IgVWLpczCE9PiLL7+gw1ZfR5y
mjTdl1eXkatVrNFpouDnphKpWKbZH5+Hu+++y6KxSL+4A/+wGpJMqEJgGlTPpt1EJrNZmAx+r5vHiFqM9rHnuehWCyaF2JpaclCqrmpiUx4T8aixOPxwGG9LDmv
ZCzDeck9DIdDNBoNc0nX63VbCwCsNkOxWES9Xre8BuaXzM/PI5fL2RmgvV7PCs28fPkS6XQap6enRhxy06yuriKTyVg5QODClLt79y7m5uZwdHSEubk5OD3G82+2
aMOA8aaQrSW1yMSpAiIpdboLKzRUSRMbMS6lUKnjx4oVlhy4uLhqaIJG8ubmJ5eVl3L1712IYyuVyoEzgm9qtEAxA8PhzDgqDPphSrQelkBjTyEgNsHGbutr0mR
REwNWqTGoaxGIxc8/RO8D76j3CPBAux6DXRKNRq8aTTqfN106kwnFg7Pt4PMYXX3yBd955B+vr6/i5n/s5PH/+HE+ePLGiuLlc7opJxiAxCgEG7VAos/8qFPjuP
FeUh+iSAJ1MJnYgisah0EwhPxSJXJZyU1KYKJGh2qx1sLa2ZuPn+xeH/DL0mHxTOp1GvV7H4uIiWq2WJVUxBob5DhQ61Wo1sPkpbPb29vDd734Xd+7csWPvaSrM
zc2Z+cZzKubm5iytnG5e1lgkmiIZ6L6rmhGKJokmKKQpnClkuB/4DFatajQaAXcovWsUhlqPgUTwTdutEAxqo5Os0piF+fl5y+DjwqUU5SJn3X83JdklHNk4aZp

TwOYKEQ0OofuQnAP9/UqccVG478a/aV90Ia6vrxunwk3FBcN6g57n4Uc/+hF6vR7u3r2LjY0NrK6u4vT0FI1Gw8YLQKDyEd3BfK/p9DIpSgUdn8VN3u12jRgGgE
KhYKXiyAPEYjEry8YcCl309Ibwd2543SDqcSCqyOfztjFWVlasJkOj0cD29rZxU4TQ+/v7Zm55noeDgwOk02mL0CT3ojEsr169wocffoi7d+/i888/DyRkHRwcY
Hl5GZubm/jBD35gngsK+H6/byniJycnxhMw5kAPP1ZF4b4/f7rEpAoWrYZFNzUFMhEZ3bEcYxLMrO70Nu1WCAbgUsswAIUwMJPJmKSktGZRFzLP1Dwk8wjXOUga
GAJcEoaU4FoXUjWlRkGyUfIDFxuM3gsSPJxILh5FCFwYKiwoUKiRl5eX8erVK9TrdTOleG0kEkE6nUalUkG328Xx8TG+8Y1v4P3330c6ncb+/r5tMAoIohmaZLy
XuuBoGlCY0XMQjUYNNjNwisFX+Xweh4eHFjzFuokMYVeBSyFDktFdpOpmYx2KZDJpvAQJNLpo6/U6tre3jWOiu+/w8NDK9vOduZmj0SharZY9kwqD2ZBra2s2H8
CF6fXs2TM8fvwYW1tb+PTTT1Gv120cmZeyvb2NR48e2bmb3LwaUco4F449URTXiJoRWnlaUYJr6vEn54uITZEL31cR4E3brREMRAJ0m9G/G4lErOwbIRXDgcmAK
wHmkpLUDrSn2RiZx+gxNrWBKbHDvAkaoKMoQok1AAFNrN/nTxUy0+kU2WwWyWQSrVbLirUqI84kJxKTwGWKtZtrQbKR0YxcWIxs1NqQKjy1NBg3dSqVQrlcNgRC
Aez7F6HX2WzWmPC9vT0bd55pwH6Rgdcqxufnlycw9ft9S9kGYIlafHYikUC1WrX4inK5bGskl8uZORCPXxy+ks/n8ezZs0CYMzc/N9f+/r4FhGnAUqPRwNHREe7
fv49isYjd3V0jJ2OxizL7d+7cwfr6OorFogUwcUzZuOnVZNDYFeWplMDUtccsxJCrR6FsqVJLzarZSULio+I378a2u/ooaA0fIxM7PzxvZqLUZyNbzVCUONgCDTc
Bl5pxWr+GAUSvS7661+LmJuUnDYh/YqPmp7SmglJCkBuAG0oVBaKn/BoOBQV+SSEz9ZWgwFwIhbbfbxatXr8wFx41RKBSwsLCAVqtlkYAAzKWZzWYDNQHUZ0+BQ
MYfgLnx1JvAOfN93+zahYUFHB4eIp1OB8wXam/dlESJFFRcxOVy2Q7c4fkOLPZLrqnb7SIajVok7OHhIdbW1kwQxeNxPH782MhIBljRROP70WQgZ6Cek+l0ihcv
XmBnZwcbGxv49NNPA25Iem7i8TjW1tZweHho40lFRsHOdcK511gHVSQUKEpIUkFpVKXyVfwOEYRyGcqFvU0LZ+pCmud5Uc/zfuB53n/1+v8Fz/P+led5T1//XJR
r/6Hnec88z/vS87z/wQ3ujel0ahVwmN1HDoFZld1uNxCBx6a1FWnbUerqBgSCadXdbtcOI9HAKrUDuQk0tkFJSk4uUYN6TvTwWqILN+dAXVdKSJEDWFtbw507d1
AsFq1ACDU2tQTJPQYWffnll3ZWBaE7FxETpzTASl1pwKU/niYazTjlDJifoF4KLl4Wo43FYpaCvLi4aGXoSQiqZ4NtOr046Jdav1AomMnIYq38yfuMRiMcHR0hk
UhgZWXF4i4YHEZ0w80KXB4Ge35+jmaziWfPntl8MdlrNBrh5OQE3W4X29vbKJVKtp5oorx48QLdbhdLS0u2ZhuNBlqtVkCQMoBqeXnZvC7c1Fwbyilw4zNBS3kH
RumyajXXJQlezWjlnnrb8vE3FgwA/hcAPpf//xqA3/d9/yGA33/9f3ie9x6AXwLwPoC/DuD/5HleFG9ozNunxGa+OjUoU4KphSk19YAS9RerbadxDuQI1N4nYcR
qzrTL9R5qM4cFKwGXkJHMf7PZxMnJSeC0LPq4dfI10EfrTrBcmp62RA1DnzYFpGod2ubUxtHoZcIZtZzCUDLpNIOIJAhlOe6e5wUKmlLLuwE0+XzeBJvneVhZWU
GxWAzAaLfP6kXRvJBisWiJUgDMpNrb27P5m0wmlqG6ublpcJs1HdfW1gKh1vPz87h7964JfzL9dHHSBU7T6PDw0LJEVRuPx2McHx+jVqshnU5bbgcjECuViiW0R
SIR3L9/Hx9++KGddaHCln3gGlUehmtFz9LQNccCvzxRjAJDPSBUfDdtNxIMnudtAvhPAfyf5eO/BeC3Xv/+WwD+R/L5P/V9f+j7/ksAzwB897r7c3FRm3AAuImY
mgpcElj0QGhsuC48kjiv+x94Hj/nhI1GI9TrdYs6a7VaATKRGyfM++B6GxT+DQYDSwEmi63h3LyO93DrGiiBSS2ubkXmPDDHIRaLYXt7G3/lr/wV3LlzJ+Cu4ga
g5uWzGQil5dbI9/AaXp9MJtHv902AUGOzaC2/n8lkMBgMzK1H4cYxIO9B9MYkLrbBYGDu0GQyiZ2dHXsPAHamAnMFqPWZ7k0Pyt7eHqbTKe7fv29nTBC1vPfee9
Z/RkBSYLuVl1+8eIFarWacDsefJsH+/j6i0SgePHiA8fjy5KtyuYxarYbJZIJcLod33nkHd+/etfRrVqlW9OKecsWNzzXN/qqQ0IArmuUqLPS7N203RQz/OwD/a
wDKYKz6vn8MAK9/rrz+fAPAvlx38PqzQPM871c8z/tvPc/7b0kkMtxZD65luKfaaHSp0cQgVNccerWtXJeh/k6TolKpoF6vWxHSer0eYJpJginicF2POjEsp6Wa
gBmNtIu1se4C0YpGY2osALkVCg7CXtrcjx8/xve//32LPdC+EjHwOeyrIgG+D+MTaNNHIhdZjaqtmOHqVgdiIJb6+xneTAiu3EosFjOTi/1kRSdqd2pR9fdXq1V
7v7OzMxwcHCCbzWJrawvZbBbj8RitVgsbGxvY2tqyqkr5fN6yGLlu2A+OrSKm09NTfP755+aSdGMQdnd30e12sbKyglKpZOtPzVWaVvPz8xZ7wTHkeRdMBFMkSa
VEtEMzknPF8dIKU3Ttay2Tt21vFAye5/0NAKe+7//5De8ZxnJcCdT2ff83fd//Gd/3f4bIQN2Q1C6M6tNqQwxmUsafySLU6vo3wqgw+E8bmfCR1XQqlQrK5TKaz
abdT1OPlaCUdwrcmxwAJ5Ra5PT0FAAsqg1AwGvC92HdPy5YCg2inJOTExwdHaFer5trkkVLufE1S5BkoKIrwn01BzzPM+QWi8WstFgymbRYCno9lAtiU5YcgAVt
FQoFS4ZSfoVQmf2cTi/qQFJw6UZlUFU0GkWtVrMDbjOZjH3n7t27WF9fx8rKCg4ODjA3N4ednR0sLy9jbW3NBNq9e/cAXHpGNHycPAy5oidPngTMTJqWZ2dnqNf
rePXqFTzPw+PHj8285bvyDAgimJWVFdRqNRwfH5sLlIFuDElXtEgUwVL6RE8UNPzHceLaVBPpbQXETbwSPw/gf+h53n8CYAFA1vO8/xuAsud5a77vH3uetwbg9P
X1BwC25PubAK7N+fQ8LyDdCG01NsE6HLss+0aEQGlJyc/FxAHioiNxRs2kmlc1vya1cHAJy7Rwp/bf/T4QPN+Am5ESne/IiQdgnhSF/rT5SSSSiCK5BVwIlffff
98EGYWCkovc/K7tSsFAjkFjGXgMPclFog0lUhl8RjiuHgsAhvqAi5DySqUS6IM79vyMsSyRSARPnz61tUAOhlGc9DQwvqHVamFtbc021tHREc7Pz1EoFMzN6Hke
qtUqlpaWzPOiLu2lpSVTTFw3zWbTAre4Dik4IpEIdnd3ce/ePTx48ADpdNoqWNOk7fV6ePXqFR4/fmzp1T/60Y8sgY01LYju+J2lpSXk83kr008TQhUlFQfRLPe
Bxof8pXslfN//h77vb/q+fwcXpOL/z/f9/wmA3wHw915f9vcA/PPXv/8OgF/yPG/e87y7AB4C+LM3PMOkKgCTjgwP5UbkYgQuGX1XKLjMvz4DCKZzcwErV6H+3v
F4bFr+8PDQknwosTkRLmpQZpkLn8+i1qMGB4B6vW62MgAzQ5SYoqnBcSIcTyQSWFxcNDt6b28PtVrNNhBdXCRFOUb0QrixDGwkFmneMeYDuCxRTwKS5oF6gIg4F
hYWzNRgbAJteBX4kUgkUIej3+/j2bNn+NGPfoRPPvnE3jsajdp91VxbXl7G3Nwcjo+PDZoTcnc6HbPj+W6Hh4eYm5szc4LrLJlM4sMPP8Tjx48DPAjnkAKef2Mt
SJ53yefqGqYgbzQaOD4+RjKZxHe+8x1DE7VaDUdHRzg4OMDp6amh5sFggFKphA8//NAiPPkeNLn1xC91jSoHp/zMTdvbeCXc9hsA/prneU8B/LXX/4fv+z8G8Ns
APgPw/wXw933fv5YS1cAN2qRciJwM3cS6EbnJ6EMnVxF4SXEvciNrDIIKCzUPSNqQFCVEVo2ngovfo9BQ1pzCgpmGeo96vW7EJM9loGAhelBXYSwWs4o/xWIRv/
ALv2Asd6PRwO7urgk4cgX071OLMT5BvTzqNtTIUaIymgd6ihKj7tTlC1wU2GFlah6Sy43M69TPTsFFgX5+fo7PPvsMn3zyiUWB8ns0FwuFgiEiQnEWkKVgzWQyO
D4+DhCqLCrr+xcZlBSQvn+RQXvv3j3cu3fP1h/XnsbJ6Lvy9Ozd3V07S4JrhQqs3++j1+vhyy+/tDqUDx48MMTK81RqtZrl/yQSCdy9exd37tzB6uqqzTcFhApX
LTLD35mZDAQV3k3aWwkG3/f/0Pf9v/H695rv+7/o+/7D1z/rct2v+75/3/f9R77v/4sb3NegNcNfNQ6BE6cBS9SwvE7JOoX6bjg0W9hn6kbj99PpNO7evWs2KrM
+mQrNTczvKlIgegCCQVMULkQQ5Bomk4sK1zzFmKQjBV48Hsfi4iKi0Sju3LljC/ajjz4y7oB5I3wPwn8l7vgZ35kmgGpsdZlRewEw04EbmoFhLgHJojf8ycXOEH
duFG4wbiKO4WQyQbVaRaPRCLh3iUgYnEZiuN1uG6nHTE72o1qtBkwFBjaRmGQClq5D8hZcf+RjKOwpRCeTiCUMPH/+3NK3GUNBQlHRJwO1Pvzww0BsDK/jGa4sI
ptIJLC8vGyl7ebm5qxmJNFROp22taKokObmV+Ku/Kob7SLW79OYcdrB1FwaxKEl10kYEUFwQ17nkVDXpsJg/o2aiEEk5+fndsgpXZssV85F60tchHINFArsPwUE
g7PUh8/wX8ZWcFHPzc0hm83C932rwswFykAeVvrhgiSsJblLLkBThVnoRkOCGZwEwAhGIgQeDw/A0A//zrGnKcOx7XQ68DzPIlo5VrpgXb5HCV/OCfvHYLdoNGo
2PUlF/k6SmoKcZgdzP3Z3d2286HIdj8c4PDy00m98LpUQhSjP+1BXYLvdxosXLzAej61+qcaa0LTY3d3FZDLB3bt3sby8HFhv0+nUzi6Nx+NoNpuIRC4qfQ8GAx
wdHaHRaNg6JzpJp9MWu8K1QoSm2bM3bbdCMABXTQIuKJIqZFYpEBgaSm2ruQIKV4FLWExBQM2kUYcamsrF6fsXGYT7+/t4/vw5dnd3zQ5kVFmtVrPah/Q/c3LUx
FDB4z6HXhluKo7FeDzG3t4ejo6OjHQELkPIeahOo9HA6uqqnRq9s7ODpaUl6wdNCQrQhYWFK94FAMYTsNFMYIAZcKGBWUOSGoruRvWl828U9J1Ox6A6w73X1taM
d6Cg5Fgp806Og8KVc9hsNpFMJjE/f3GA63h8UWX86OjISGoNRCJ5TBPj5OQEg8HAgqL43OPjYwDA3bt3A2apmp47Ozu2EXO5nAXmDQaDAGJl/6jUut0uDg4OLLf
jo48+AgBTduQNWO7+2bNnGI1GyOfzWFtbw+7uLo6OjqwcnQbv0USkkOdc/iQuy1sjGCjl1HVF6AYEoxppKxOGkRjiIJGXAC5RAXC1kIpCrTCy0vMuknoODw9xcn
JiFYkomAiJNfZBzSBqCtWC6sajYKMgYJixIohqtYr9/X3s7++bV4ILeG1tDePxGNVqFdVqFdls1rgKansKBn0m4ws0TJpeC24+NTnUM6FH2nPciUY0KCwavahTQ
KLQFQxra2u4f/8+1tfXbcyVPyKKVM6H9jrHklWdPM+z7M9isWjRpuRXyuUy9vf3LShsbm7ONnWz2cTq6ipKpZL1ncFurL1IQpvCK5vN4t1337WMTNr6yoVpBC6F
BkPWG40GXr58Cc/z8OjRowDsp3ZnevnJyQkODg4Qi8Xw/vvvIxaLWWQluYqVlRVks1nbO3T7M/6HAv5t2q0QDNRauni5UdwAJt3IGpRCTUvCjgtG7Xw2dV/S7uY
9CFsVVWgADLW+CqperxcQDrVazU5X0mdqWLUSb+pSVfcThR4TiAjZafOzhuNnn32G3/3d37XqRAcHB2ayaMQbFw09DhRYWpdB7XjmQszNzZnnh3NEV2osFjObnT
wEG0utMTCKEJsbh1pQvUjKObjBXkSEXBOdTsf+xrMmmLzF2A6OBw965bpg0tfJyQkymQzef/99MxMGgwF2d3cNGSgK8jzP+n3v3r0Ah6TnOXCMgAuUReHLehtPn
z61eqKKYlXYEoU+ffoUg8EAGxsb+Na3vmXepWQyiXfeeQfvvvvsuHjx4YEcIcG21220Ui0U8ePDAkNlN260RDBwQ2sm0XanZuTDdOHINQuHiS6VSRs6xceDdoCQu
NiINFSK6SJXgpJDS+ofU5tVq1eoCMKZA7TtqVm5AFX68p/IsWtaetv5oNEKz2TQy6gc/+AF+7/d+D1988QUmk4kRXIS1akoxHJlCk5CfJChwGapNxpsbhjY9oyE
pdJlDwEreHEMemkONRVItmUyiVqthOp2a/96dG97HdSNTwHKTMRQ8n8/bWGqlJpo5lUrFAqAYCHd8fIzd3V2cn59jZ2cHxWLR3v/o6Aij0Qibm5s2/moWnp+fo1
QqhR6ORLOQrvRI5LIKFonTWq2Gw8NDy8jkmFEA0oXf7/dtPmOxGL73ve+hWCwGCtdubGzg7t27WFtbw+LiouV1xONx3LlzB48ePbLDh27aboVgILmj6awkH0nku
emo6oXgPbioisUi7t69a4tLN4Ha+MAlnKf25Ofq0qRgYoAJIa56HpS0JHrRfs/yRCj01ncBLutBkHsBLrVQp9OxysaEnXTVHR8f48c//rEJDm4uugQpKIhoyEUo
MUo0QGjs+74RdHwm+0dtpKHe5EEomIALcs73L8qv8TSsSCRihwq5466bUceGm49kMHkPEsRLS0tWUp/5EZ1OB4eHhwAu0NqrV6/w5Zdf4vDwENVqFalUCuvr6wF
ys9FoIJvNYnV1FcAlsmNi1fz8PO7cuWNzxQAoNRcZx8DkpkgkYqH2z549w8uXL42E5jOAy3yISqViWZzD4RAbGxv49ut0YwEJaTxGLgRr/fNy1JWE8hQsKR5gO1Os8YcF2GunmBy4nWWHTXZakmjBuO6gonz/OwtraGu3fvYnV1NXCYKQNSuMkJlZW0Y/8pWPh+FGrUoHRNk
mnf2dnBysqK9fX58+f4+OOPrUgqiUduJm54LeqqkZWqGZUQpMZnkhTfXTNiXQHOJK14PI5Wq2WeCY4lALOPKcA5HgDMBcumZhcAy0OoVCpot9totVomeGg60BSi
iZXJZPDy5Us0m020Wi0cHh7C8zzz7FARkAe4d++ejT+R06tXrzCZTLC1tWWbWtEjPWlMIIvFYpYvMR6PrQp4uVw2DxDHk+uQHEi/38fe3h6q1SoA4Dvf+Q4AoFw
u4+XLl1bSbWVlxQ7RZeo7ORmioZu2WyEY4vG4hX7SBiSLSxcmmVbmyxNmaYUj+pp5doFmMgLBWo7qGeBkuxwD/1Hr6iEt1ITKcUQiEaytrWFzc9NYd2YV1ut1O8
6drj0GbHFDK5JRTcnFxuAtbmy+E486ozCs1Wp2tFuv17ONEYlEjK1mdSd1LwKw6/iONAfi8bi5KROJRCAGgWXkKLS1ZTIZS6fXcnxELJFIxGIz2IhqiGzczEA1O
YhCmIrNI+rn5+dxdHRk2ZTn5+eWCk1uhoTh8FExxuOxJTIREe7v71v0IV2hbOVyGb1eD/l83oQyx4N5F7FYDKurq3j48CEAWKAcq3UzP2c6ndq80pRQPqvRaKDf
7+Ply5eYTCbY2NjA48ePLa+HQioWi1kh3bW1NQCwdcCM05u2WyEYEokE3n//fbz77rt477338PDhQ2xvb2N9fR1ra2solUoBwcHBVbOAi5JkGANu3Jh2IJhYpcE
g6j3QoBNufo1H10WikJ8wt1AoYGVlBSsrK1Y8tdfrmb3IBa15EAzaUgKQWlQFGd+LJpcGQpElZ7r66empVXxiWLWmX3MD0ouh6de010kakldgTQd193KTUdgAMD
ODpCCFODVpu902j4KmyXOzuOPMpkiw1+tZlapms2ladWlpCYeHhxYM5vu+RSfGYhfp6TxzgmhjYWEhEHbM8UskEiiVSgGk0uv1zJy4f/9+wGQjiiWau3PnjgnPR
CJh83R2dmbrWN3GilLJSZyfn2Nvb88qnP3cz/0cUqmUVYqmB4JelMXFRSwsLODo6AitVstMm5u2W1HabWFhAY8fPw4EK5Fb0LMT9R9tdBI8DKeOx+NGbmnAEnA1
KpGNUlrzLXRh6oLQRa+LlhqvUqlYDUSFiIS71BQsUUfGmvapCi0KBf7OjUhtzgXF4Bv2iRGBDFPO5/M4Pz9HLpez4q5zc3NWNo/fofDi+7LfrAbFTFMy7Cpsk8m
kHb66srJifafLMpfLmR+fB8e0222sr68jFoshnU4HvBrM7OR4cI7Y+OzRaIRqtYp79+5ZXkav18Pi4qJVe3rvvffwb/7Nv8FoNDJz4t1338Xu7q4Vm93b28PS0h
JWV1fx4sULG4eXL19ia2sL9+7dw7Nnz+zZAPDy5Us8ePDAAsp4Yhbd5YxQzGaz2NjYwLNnzyyCNZFImNmzsLBgqemscs05pYDg5n7x4gXy+Tx2dnaQTCbx8uVLp
FIpvHz50oKplpeXUS6XsbKygidPnmB/f/+ns3w8tQZwtRiruvnoBdCgJhUgr169wnA4DIT8arCMuoV0w5Hl1oUe1kf+VLLRbXShUQPz3dbW1qyYyOnpqR1vPxqN
7CQhLcRBIaXPYv+JHrhRWOeAcNL3fUMhGqqsY5tOp62+AAlFAAHegaYZA2w43plMxoJpSDxmMhl7f40dUdMnGr1IPaeJ9eLFCxtzHhNHFOW6WsnJEClQQEUiF0f
U8QyI4+NjqxnpeR5OT08tTuHVq1cmnEulEh49eoS5uTk8ffoUBwcH+OCDD+yMD27Mk5MT9Ho9O/Wp0WhYn3jO5+rqqtWEVHRHsjcWi+HevXvY3d01wTCdTo1DIx
qj2eMGJ0UiEVSrVeRyOTx79syEIFFHs9nE8+fP8ejRIyNRy+Uycrkcskknj17ZqbFTdutMCVc7wMXABcNE0pIrCwvL6NUKmFjYwN37tzBgwcP8PjxY6yurpp7j
0SZxjKoBnZRgP5z4auGCfN3FRD6HZoGvIbfY5n1Bw8e4IMPPsAHH3yAe/fuFIZ/P4+zsDNVqNRD7QNeXbmbeG7h0s1LjE8oySIxwnZCYC4jELo/bY//JnRCVaPYg

BQQXM2Mf1AuRyWQsT4Pzx7FlajRta5ojRIIUDGwk6NSj4Xqg1G3JzEKGi1Pgzc/PW3DQ/fv3MZ1ODXrH4xfFYskJsQoUC6dQCDMKcX7+4vxQCj3C/f39i5pEd+/
eNa6JfRuNRtjb28P5+TlWVlbswB6SzEQIGkBFIU/BTK6BhZLb7bYRp0w7b7VaODo6wtOnTwFcIPDV1VWcn59je3sb9Xode3t7b7Unb4VgAIILnYOqJCOzxUg0qv
YgMcgFR9+1mguu+0uZfpdXCEMEsz7T73EjqTBi5mGr1TLtUSwW8fDhQ3z00Uf46KOPDPbSdUaNQeGguSAqCCikeNAL+0S7lQlGXMgsDMpwW46hljLjZuX4kCDlu
zLngWQiG2sJ0Mui40MzgbCdgVI0d+jpoI1OCM2Nr/kvYXEmLJayuLiIWCxmpz0nEgmcnp5iPB7bydm9Xs82KxOUWGyXR9FtbGwYKppOp0bubW9v2xrgejo4OMDZ
2RlWV1exsrISMF9ZpLZSqWBubs4CouixYMg4hRgAM6vUa8PPG42GmTeHh4fwfd+OzWs0Gvjss89MSK6vr1v8xOLiIl68ePFW+/FWCAb6vAmz1OdPXzg3m+s+dPP
SNQ1Vw6JdE+Km/VLCUqPTXBeoIhJ193FxM+Zfy7flcjkjWel1YeosNaYGVmm1X3WtqmtP3ZvsA+/Ba09OTvDq1Sucn5+jVqthPB5b5CkFMjcmACMWY7GYVWOit0
HnT0OjVcCm02n0ej3zDpAITafTVsuTpd/YNNCHjVqUz6TJA8CgNp/RbDatj+12G2tra1hfX4fv+1bXk8I3m81ic3MTJycnGI1Gdk4E+Q2W41taWrKq1cAFzGfSG
6tEabwM1+HLly8xnU6xsbFhiFYRgdY39TwP7777biCTk+88GAwswer58+dmMjJXhKdd04wplUoYjUbY3t4O1Ku8SbsVggEIamtFAZp3TmZXy6UR3pOD0FN5GEDE
5hKJrivTjWFw/+b+4+ZUQaFmCyeI1Xsp5MbjsZWTI8qhHcy6CnwHAAFzhN/XVG2aF+w3WX3g0mRSIcMQ68nk4uj5w8NDO/eSdisFCfs3HA7NxTmdTu13jcFIp9O
YTqeGKviPYcoaCOV5nhGQACx6keOuCsE1Jzi2aq40Gg0rSANc1LigB4BVnu/fv49YLGbVu4moptOp9b3RaCCXy2F1ddWI6sFgYIVd7ty5E9j4k8nEzq3Y3Nw0za
+cFM+tyGQy2NzctPel4KWwJzr71re+FYidIKcSiUQs4KlSqZjS4fi222188cUXtja2traM7yoUCjffjLhFgkFNCdcFqZ8DlyXTVDgQLieTyUAKNxD0e1ML6b1m8
QVAuFDgZzr5AAKCgo3uJtrjtN0Jz8mtbG9vY2dnx04qnpubM4jICk9cyEQi6sWgnco+qIDSd9FU5mg0ikqlgufPn9vi9ryL3AyiNSYBnZ2dBYQBg6xYlo6wFbiM
LWBTLel5HhqNBnz/IgJSs0bz+bz1mcJR3cAquDmv/G6v18PR0ZHNAyt98+g+3/exs7ODdDqNTqeD3d1d07hEOczMjEajVm2az3716lUgRFrXDQnKxcVFQyVKmDP
qMhqN4v79+zaPNFUYUMV6FVtbW/j2t78d4Bg4ryz4qqkBFPi9Xg+7u7uW5xGNRrG+vo7hcIi7d+++1X68NYKBTSG52tZuarUSUAxQGo/HVlJMXXi0yzVgyI1Z0J
/sh25yRRraXIGh+Ra0uff39/H06VNzgXHh09aMxWJ2lHmpVMLa2hqKxaIFFZXLZZTLZeMfWGdAy7LxvvSf8z21L3wnfp8CpNlsmo/c93202///9q4lts3sOn/3p
2SNnnxI4lMvWpIt2bI8tmfiAlMUaVG0aVq03RTIokAWAbLpokUXxQQBCnTZLoquugjaAgHaNAjQBg2yKBqkLRokQKeeZh72jB+yLFokRVIk9aJEPUjeLsjv6PAX
bUsdj0UDPIBgmvr18/L+9557zne+c862vGZaMVFzKl0CwsRDSHwCIEQorTj5XDQAyY7eDFOSIcjnw1L1mreg8RtrrSizo6N6BytiHXt7e5J+zUranNtqtV4QR6c
t7+3tIRAIIJvNSgfuaDQq34Hl471eL0ZGRpqUMgHK7u5uzMzMiIVD6+3o6AjLy8s4PDzEyMiIPFtd0JjzyI7qs7OzklZPl4k40tbWlliiHB9ZjltbW7h79664bK
OjoxIePYu0jWLgCabNdDfuoE9kferT/K1Wq03FPd3iptMCOLFx3CdsK3H/Tavfc9MxTZtFOhiiJNbg8XjEd/X7/fD7/RgZGZGS5+FwGF6vV3jz+XxeQD/OA10pW
kkErtyWlhsHAY7NV52otrm5ieXlZWSzWYmvMzxI2jo3u47+MOTMasZ8ro5Tz4colUryfEjRZhs9j8cj+QR8prqWp3vutQXI53BwcIBgMCjjJI+hu7sb2WwWQ0ND
YjUw34HWk7X1vAqyVLu6upoUw+HhoSQ8EUvgwUR3Yn9/H5FIRIrk8LsTp2CB2OnpabEGeH8efIxA+Hw+3Lp1q4lmzbXLilHEIagkGOlJpVJC5PJ4PAiFQicyX18
kbaMYgOaHzsWm3QXNPnT/8ORgQo27OIXW4q0+U/vEeiPxX6203C6HdkWAY+uCQNTo6CiGh4cl3KcLzVhrEQgE4PP5pONUf38/gsEgLl26hLfffhu3b9/G3Nwcwu
EwAEi9AIY3aaXoGL/2zfXCco/NcZymOpSMvT99+hRLS0tYWVkRIhTDn+yJwE3N+R0aGhLeA+tGAJBwJP1sFrVlos/W1pZsFOZN0OWh5UfReROca36XSqUiHbvIs
+CGSKfTcBwHsVgM0WgUAwMDSKVSolioYH0+HzKZzImcm0qlgkQiIVgCLRP+LpfLoVAoNIU1OV6yWum+xGIxmW99sLAfBF2i69evi3tF8JfPkKCxLhtPBb6zs4P3
339f1sHIyMiJeXuRtI1icJ/mnHC6CNTMOkypf5jrwN4H2lXQeIKOLvB3bvCQ11L057jFPQ4uUOA49EQOBi0FYiEMEfKh0jqixeT1ehGLxURB3Lp1C7OzsxgcHBQ
Tlm4W/VYqSo5NcwHcERO6HvTf6ffSBWKSDjn6TJxiHQGWNSednO4FE7z0Z/I0pvtAlNzn80kIE6hnxnKeWU9Buw46p4LrhAAoNxbn1XEciVaxWpO2xvTJyzB4OB
xGLpcTV4fKmJuxWCyiv79f3tcuDZUPcQRtUVSrVSSTSezt7aGvrw8TExNiFesIBms17O/vw+/3Y2Fhoak/JX+ofDXwTDdsc3MTDx48wL179yQsGgwGcRZpC8XgB
v5amfX6pNcLnCcGFy3ppVxEeiO4qdBucfMUeBK1GoN7fPo6LgpqeDd5iddy0fM01wqQRCSCez6fD1NTU7h+/TquXbuG+fl5CZ0xds0Nys2jzU9t8fC7aDNV54oQ
hzCm3mUqnU6LoqjVaqIMyIbU96ErwMgDP08nnzHT0lorFgTNaKLnOiGJrzVN3a2IeTiw0Cr/hm3s9vb2JKQZiUQkh2V9fV1Q/Xw+L+AkS/DHYjEhjR0dHSGRSMB
xHMm/4DgY4dnf38fIyIhsRAKorAKdTCbhOI4QoqjE+EyOjo7EZXQcBzdu3IDX6wVw3JGM65qhY0ZC2OSmXC6jVCrhJz/5CbLZLBzHkdTx00pbKAbgJP+fpiQRbd
3/QTMPOamsFcD6hBpw1Bu8VUTC/Ro42QilVRRCizbRjTkuIpLL5aRyseM4grazoAuLmpKXoa0ZXQeCRWf7+voQjUYxNzeH8fFxeDweFItFZLNZyaSjwtFkMZ1/o
edFb149N9pvpZA5yZg5LTOCkUTVCWBSOdPUZd4E2XrWWrFSSHRiQtWzrL0XvdZt6+i6MXmJkQHmFLAJrePUuRaJRELWTiKREPxH131MpVI4ODiQjlYcIzkh2WxW
QEh+b7p31WoVjx8/xuHhIfx+PwKBQNMaBiBgJZmK4+PjGB8fF9KZ5vCworpubRAOhxEKhWCtRSKRwHvvvYe9vb3XM7sSaLYCniX6lHD7+kS8yQSkptZ/CzRv4Fb
3dv9ObxwddXCPQ9+D9OOtrS2pxUj/jxuJtQP4rw45dnUdV2+ii0HlQEWzu7srXa3L5bJEEnS6OU9pnna6GA4/S4O9bqsCgPATGG4E6kr4wYMHePTokZCJAEh2oj
FGOmURYO3qqtdbLJVKAkSSCer1eiUHgdWVeQAQGOX8arBVW410h6iA/X6/KIcLFy7A6/VibW1NXI2DgwNJfNre3kYoFEIul0MqlUJvb6/0sqAbyM9gAeDe3l6pI
u0GISuVCiYmJgSH4HzTKsnn80LTZuSHQpdmdXVVEqeuXLkibiatO4aKyQNh6DMUCuHGjRuyht977z2p7HUWaSvFADQj+q2KsmjzGDh+KEye4sZ0Rx/cUQwtL8IY
nif8W80spAvAxeTz+SQtmFTk7u5uYekVi8WmpCmKBlyp8dnchOGv/v5+DA4OIhAISGl2mrY020kM47xqLod2x/S8aIYpgBMYxubmJpLJpGQsJpNJSX8miYpzwM9
jdufAwIBw/x2nzgAtFAoAjmtzcCHzXjocq8FW/tBNo7XE8vpUqtVqVZQ1Nywtpnw+D5/Ph56eHiwtLclnbm9vw3EchMNhMd+ZrAdAmu1ynACQyWTkO0aj0SaMhM
zVlZUVAJDmu3zGFKaSLy0toVKpIB6PY3Z2tilPh0qc2brEGkZGRrC4uCi5J4VCAT/72c/kM08rbaMY3Eh/q1PMfQ1FE0RqteOinG4Krd4IrdyBVvIs0LFVCA2An
ADG1PPr+YC4KIgZAMdNVjTLkVYFlR0JRbQeBgYGEAgEmjojxWIxjI2NIRQKSVNUmpqMgmhSDU9SXaZOg2SaikyqNhUy/WLGxY2pZzB+8sknuH//PorFoigmFokB
jqtTk37t8XjESmB1ayoor9crc8INRaFl4LYGea219dRx5joYUydUESfJ5XLo6+vD8PAwqtV6e3qGEePxOFKpFDY3N5tKwbEeJL9XKpXC/v6+pFRTYR0d1RvrrK2
twRgjm5m/59ym02mh77PYrE5+Y9j56dOn2Nvbw9DQEG7duiX30u7T0VG9FR4ZjiMjIwiHw1hYWJCoxaNHj/DTn/70VOtd1veZrv6cpBXgyFOYHHIuaPcPgaZKpV
4Elj61tg40qv0sV8UdatTvabfB/T7vq/+OcXSadswh4IlerVZRKBSQz+fFpHW7KVSI2hXo7e3F8PCwZGnSbGdXov7+foyMjEjEg9ZIJpNBoVAQCrYO8+rPcoN6e
gycG86hBs6stSgUCkgkEtJwxVqLjY2NpmgHS5vx2RaLRdRqNUnZJgHM6/U2RRY4x3yenHv9r7b0mERF87parRfILZfLSCaTsLbeuJaKm9yQmZkZ1Go1aRVAy4B1
E/n9db3NiYmJJuC4UqlIQ5loNCrPiGNj7gbrc05OTjYpeV5HLIe1K2dnZwU70MQ/AIJTsfFyT08Pbt68KUVjAeCDDz443WbkGM509SsSjQe44++thMg1OyBzYbo
XT6t76JO/lRXwrEiEG6vQyo2WAUt/MbbOlmd7e3uSEUl/mBtBJ00xP8QYI/UJeN3o6Cj8fj+Gh4ebPoOLOBgMSrwegFQ3IlWYbgZPVY6fvj2/GxWHplqzQA7Nfd
6HiDrdv3w+L0xCgpler1d6PhCgJMDMSAA7OFFxsboT55eWi1vR053Y3d1FsViUUCArTrGCFl0eKtBarYZisYjR0VFEIhGpF8lGQsYYiZbw+1NpTE1NyfPSkZFis
Yju7m7E4/EmK4cbenl5GdVqFX6/H6FQSJQl1/v29jbK5bKAlUNDQ7h582aTpcb9QawKgOSMxGIxLC4uCr9EW6qnkbZUDBolp1Jo5QdT6IMyBdXtr7tRd/ep435N
cXMhtHn9LJ6DtRbFYlFOUoYpfT6fLNxyuYxAICD9MFmqjmOlOUw/d2Njo2kjcgwej0eyM6PRqNyLnZHn5+exuLiIhYUFxGIxiddz4TNaoQEtHR2hOa8zLbUFobE
KbdVxnvL5PD755BMsLS1JP85AIICtrS34/X4p9Gutlb6TvDdzMYCTLiEBTc4Dx8L5JTWYipTWDTNHc7mcmO+MTjA8ODMzI38HQBr9kIDG+UqlUtjd3UUgEJCqzF
wnxBFqtZrkVnA+AYglx76c09PT4noy/MqDhe0QHcfB1atXMTY2huHhYQwODsLr9crnMkJB0NJxHFy/fl3S2V/bJCo3ws/TSxe20CeXFtZe6Ovrk3JmNM305n5WR
AJodgv0mPTv9fvPCl3S1GOW5KNHj2RxcROxcEckEkEoFGpa5DxRyuUyisUiksmkRBxY9VmXPGMmIIvBMiJx4cIFhEIhUQ63bt3C1atXhXVHU1XXctCKQc+DVh48
uXWUggqE4Uc+K6Lrn376Ke7evYsnT56IKe73+4V+DQCRSES6PScSiSbQshVW1Mq908Ak3RICid3d3UKYW1tbE+XC8G8+n0elUhE8gVWmVldXxb1h1yxr660LyZC
cnJw8gcukUikcHR3JvfSc0qJcXl6GtRbRaFQS0Di3Xq9XLJDl5WUpzTc/Py9NlicnJyWdnO4Hi7bQjWUh2rPmSrRFaTeg2XTXplcrk17zEmhmO44jtR7di0lrcx
3a0idwqyiEDlXqMbqVCBclhS3qy+UyMpmMnFbRaFRKlTN6oatiMxzFE7hQKAjIVSzWm4kT9efYGH0ggYakF46Jvn1fXx+CwSC2t7elYvXW1pZsaIYGgWaXS8+jB
tDcLpi27LTJz8XKVn40a/kZhUIBMzMz6OnpQbFYlDbxTLnXqfPaPeTn6vCrtmx01IOYSK1Wk43D1nuO40g7t62tLWFGMku3WCyiVCpJ92oCu7VavYp0PB7HxMQE
7ty5Iz05GK7OZDK4ePEiZmdnsbq6Kun2QN1qXF1dxZUrVzA4OIiJiQm5hu4hlTEBUb/fj7m5OVFyvN/+/r5EHchfmJqaQl9fHxYWFrCysvL65kpokJAb2Z1ZqV0
Kbi5N1SXr0Y0ltAII3SBjK1fC7Yro1+5Fyusdx8HIyIhsWpqZiURCxkdwslAoYGNjQ+of0L+k28ANwqxGbjQ3g1KToFiToFar1xZgv02CU5OTk1hYWMDNmzexuL
iI6elpsbToglHxaCWtwUhaPZotSaWiiVSk49ItKBaLWF1dxeHhITKZDIB63gdDnmQnDgwMiFukfWnNfNSHg1YcTPBiVMRxHOGCOE49i5LK0eOp16BkCzg2vh0fH
5fN5/F4pHwbCU009bPZLEqlEnw+H0KhkLgq29vbKJVKElJmOwFW66aLyFRxay3i8bhYXrQmI5EIBgYGJHcFAILBoFRNJ57ETte0MLLZrICs0WhUKNpnkbZRDNpP
12DYacTNetRYgjte/6x7ui0Tt1uhr9GiTVmOm1Wf+/v7cenSJQwNDeHw8BBPnjwR1htTZnd3d7GzsyOJYNvb28jlcshkMtje3pZTTp+M2rUi4t/X1yeoNEOWPKn
pVpGpSO789PQ05ubmpBFsJpNBsViUxjG0DlgzgpaCrqwFHLsgQHNncc4ffXYdJchkMqjV6h2rl5aWcP/+fRn/tWvXpBN2K+ULHGMs2pqhQuBzJGpPwJb1FXgKE8
tZXV2VzVepVDA6Oop0Oo21tTXs7OxI8hT5F6VSCVtbWxIG9XjqJerZAZ1drDKZjACdMzMzEoJmElm5XJbPDAQCUliFURndvo+hS2PqBW5YtYwNaaiYSVdfWlqSZ
z8/P/96VokGTnaJ0hvNvUHdXAQi9vQndaoufUm31aDNfzex53nj0+6NO5TGe/HhEdHu6emB3+/Hw4cPEQwGxT9ncde9vT0pk89K0iwjzqQrglpudJ5ulOM4GB4e
FgowT0zWD2Bik252093dDb/fj3A4jFKpJIt1cHBQUqC52ay1TRYFrQcdNdLhY84Ff0+LTuMojNDcu3cPGxsbiEaj6OnpwfDwMA4ODhAOh7G2tiYKQNfYqFQqTdR
pt/BZU+nWajXpiF0qlfD06VPcuHFDyqLxGbIgbC6Xk7wLFlthrQSGGh3HwdOnTzE9PS2dr+nKVSoVlEol5HI5BAIBRCIRWZucl3w+j8HBQRSLRYTDYbz55ptYX1
9v6ujFxDDiFrTwyuUyEomEcEU0VbqrqwvSfF5cGTbgPYu0hcXgjg4862Hra9ybg2XPSMbRvAW3UnC7FUBroLEVWkgVV6vvoE3og4MDZLNZ4RrQnDs4OMDu7m5T6
XgqEQDi+7LvIpmT9HnX1tbEolhdXZXTjWEzLiya0e76mQAk01OPga3m3AqUuQaMnBA8IxFHk9A0bsPnxI2gIxt6LCz/fnBwgGKxiOXlZSloSqVAN6qVC2etFeRf
x/fJSSA+Q0XEpj9bW1uC1mezWeF8UJEzB4Wnf1dXF6ampuS77+zsIJvNYmdnB16vF9PT0wCOIyTsJ0pSF58hlQOjQ8xeZZQqkUggkUhIWzpiMgQhu7u7MTQ0hEK
hIM+QxZJZQ7JWqxeN5fWXL19+3pY6IadSDMaYFWPMx8aYD4wxdxrvBYwxPzLGPGr861fXf8MYs2SMeWCM+fWzDEi7EJo4ok8mvTiYdKKLwOpTlfdsJdpteJEyet
GY9WfRXC2Xy1J0lOXKuai4QI6OjqQqMM1dWhWO4wjYyJJuuVwOy8vLWFpaQiqVQjqdFiCRizWVSmF9fV0UIkNZNOkZv9eEm1AohEgkgpGREVEQZJTqnAcms/H5A
MfFUvhsKLQgtHWha0VohdXT04Pt7W2sr6/jzp07ePjwYRNJCYCMQ7t9/D1DpZx3umYbGxtCtGLYcnd3F/l8Hmtra+jv75cQaqFQQDKZhDEGCwsLcr9CoSCb7NKl
S2L5kC/BepA3b96UfqVAnVOQTCal8Mvc3NyJSBvxFVp68Xhc0sGpOKjwddbl2NgYotEo/H6/4FF8Dkxjp3sIAKOjo2da02exGH7ZWvumtfatxv/fBfBja+0sgB8
3/g9jzBUAXwFwFcCXAPy1MeaFyId7c3KDtaJE62sIgrEIrJv1yOv0//Xfa2llSfB9t5JxX+d2J2q1Gvx+v/AX9vf3MTY2Jt2n+vr64PF4JIrCGDZTa5lKbYxBIp
GQxjE86ZnM093dLbF0Ywyy2SxSqZT0yCSGcXR01FQYRLsy2WwW/f398Hq9Mma6ElQs6+vrAm4yvVdXW3JvWs4R54nKQCt9PnNdGNVai3Q6jQ8//BAffffTRiQgUw
7E66sKNSIVGSjz/hmXzg8Eg5ufn4fV6sbW1JWXh5+bm0Nvbi729PSSTSezs7GBychCBQEAqY9NCC4VC0jmargorgbrNmJ8vuAZDekh6PBwsLCwiFQhgaGsLAwAC8
Xq/cgyDk7OwspqenEYvFBHxkEV1rLR4/foxKpV6Q5tatW9Jrk0pPd2Xb39/Hw4cPmyjlp5XP4kr8DoBvN15/G8Dvqve/a609sNY+AbAE4AsvHIgLU9CnSqvKTcC
xYqjVahLDZ8hIn2BaMegYOO/xPIuh1e9aAZhaMRBXiEQi8Hq9TQ1gu7q6hLZMdHpnZ0faymUyGeRyOUmxtZK9EK34AsEAujp6UE0GkUsFpO4N6/TiUA6eqDNeh
3WHRgYwODgoFCux8fHMTk5KT0WgDqJplgsitLi32vqtHtuqCTd866fB8fCEKUxRlwKRhYIulLx042kNUV3YmBgQDIymXzGvJHx8XHcvn1beAXpdBqlUgkzMzOIx

WJyKrMZLqtKd3V1idvQ1dWF+fl5sbzI8Mzn8+jp6cHFixclp4XkIvaeGB4elm5RXq9XckastcKE9Pl8eOutt/DWW2/hxo0biEajYqV5PB6kUikUCgUYYzA2NiZg
7uDgoGBLxLB6enqE3v085nDL/XjK6yyAfzPGvG+M+XrjvZC1dq3xgNcAsERMDMCq+ttk470mMcZ83Rhzxxhzh3RO9TsAx3Fzvbj0CWQaXABrjxtvaFBSi5s5eRb
g0X0/9xj4WkcoGDrb2NiQFGlWWta1EYk3GHNcGZlUaoa4QqGQmJ0sVzY6Oiq1Igk2UQGR/chmugQEiQfosKO1FpFIBLFYDBMTE5iampLY+9zcHBYWFnDt2jVcvn
xZsgxLpZIkGuny8fTz3XOnMR531EdzTfgeMRoATbU16B7oOdb4AqtX6/bvpFuXSiXZuPweDOcODQ1J41lGLADg6tWr6O/vl0IujCBcvnxZEqjIJmWth3g8LhYBI
0Tb29uS8zA/P3+if4q1VmjU1lpMTExgZmYGMzMzMlZuduZicC45T7Q4yYhkc95qtV4D4qxy2qjEO9batDEmCOBHxpj7z7m21dF7gmporf0WgG8BwPT0tPy+1UJq
tdH5HokbRGp17r4WLli9OFsBiRp0c4236Z5uPoP78+jDsm2Yz+drQu6ZE8BcAproU1NTTcVUCUoxWpFOp1GtVoUUVK1WpW0Zk6iYNzE6OiqniZsnwvmt1WoYHx9
HrVaTxaexgVqthtHRUcRiMQHjmENAvgXxBze2435WbgKU2z3T5CliLHym3EC8TmctcqzEabghqKzJP8hms7h+/TrGxsbw8ccfi38/NTWFqakpKYWWyWRwcHCAqa
kpIYVx87LxzOTkJJaXl4XhmU6nce3aNYTDYYmmcH0wVZv1Jv1+PwqFgmA13PiPHz/G8PCwKAzHqVdeIseD6yaZTGJubk5KxK2srAiGwlBnb2+vjJtWxlnkVBaDt
Tbd+DcH4PuouwZZY0yk8WAjAHKNy5MAxtWfjwFIv3AgznEmYeOeAtS4XQm9qOiH00fUqLgbU3je+63cg1YAptsc1vfTymd9fV0YZzQbCTpaW+9ROD4+LqQWhqXI
pGM6MCMug4ODcg+CUgyjFYtF7OzsoFwuIxwOC0MvHA5jbGwMXq9XTGziAZqY5PV6EQgE5JTjpuQ1vb29iEQimJ+fx+3bt/HOO+/g7bfflhLnBONoPWjrTgPGfMb
uZ0DLkJaHMcd8BF3gBoC4E3w+Op+CxC4AksbM111dXUgkEtjZ2cHMzAy8Xi+6urqQTqdxeHgoLpMxBpubm8hms+jr62tKktrf30cmk4HjONIQhmHkfD6PXC7XlH
EJQJ4Ta05euHDhRI+HoaEhRKNRcTlIiT84OMDw8LCUieN63NnZwerqKjweDyYnJ6X+JHNuWAiXIWhiDWeRFyoGY0y/MWaQrwH8GoC7AH4A4KuNy74K4F8ar38A4
CvGmB5jTBzALID3XvAZJ3z954GPesNSk7IFunYR3DF/twXyoqiFe4zPI1y5wUdaABMTE7h48aIg5IzHkxPAvAUmNwHH7dp6enqElEOzPRwOS3VmIvDJZFJckL6+
PmHGEfWnf+5mv/E7acVGl0PXZuB7tHLGxsZw6dIlXL9+HYuLi7h27Rri8ThisdgJF027C/r5un+vLS+tGNzuCU9ooNlq46HBTcz769wN4gSsWQBA3IlAIIBwOCw
AMIHJixcvCkHs6OhIyFDj4+NS2YnsW6ZbT01Nob+/X9zJSqUiRKparYZ4PC5uHvknVDRkLGo3iWXkaO0BwJMnT7C7u4ve3l7Mzs7KGPf29ppS7Wl9nrWp7WlciR
CA7zceaBeA71hr/9UY8z8AvmeM+RqApwB+r/GQ7hljvgfgEwAVAH9grX1hXSn34iEopcUdteDEE2ghxqA3cKsTqtVnuq+hMmmlDLhQNQjq/v8bb7yB0dFRRKNRB
INB3L9/H5ubm/B4PEJh3t7eFnCS1G+WIB8cHJTuzcYYqacQi8WwubkpoFy1Wi9CytAaACnkotF5KlldKYiLGjguWqqv1368LjJDk5a0XVKc2cdRz7meP02Xdj9L
DRZzQ7jvwY2hU4i10qhWqxLWZWq57sptjMH6+jri8TiCwaBUoMpkMhgfH5f3arWaJFWFw2FJKT84OBArjj1AiIHQSqxUKggGg/D5fE30fKZqz87Owu/3y3MnJyE
YDGJoaAhPnjzBzMyMPKdKpQKv1ytFc3WZv3w+jwsXLohrRFCYHBliWuxidhYxzzK3X6UYY9YB7ALIn/dYTiEj6IzzZcvrMtbXZZxA67FOWmtPRWhoC8UAAMaYO4
oj0bbSGefLl9dlrK/LOIHPPta2oER3pCMdaS/pKIaOdKQjJ6SdFMO3znsAp5TOOF++vC5jfV3GCXzGsbYNxtCRjnSkfaSdLIaOdKQjbSLnrhiMMV8y9fTsJWPMu
20wnr8zxuSMMXfVe59LivlnHOe4MeY/jDGfGmPuGWP+sB3Haox5wxjznjHmw8Y4/6wdx6k+22OM+bkx5odtPs4V83mWQtAsq1f9A8AD4DGAiwAuAPgQwJVzHtMv
AbgJ4K567y8AvNt4/S6AP2+8vtIYcw+AeOO7eF7ROCMAbjZeDwJ42BhPW40V9dyZgcbrbgD/DeAX2m2carx/DOA7AH7Yrs++8fkrAEZc7720sZ63xfAFAEvW2mV
r7SGA76Ketn1uYq39LwBF19svNcX8JY1zzVr7v43XOwA+RT2Lta3GautSavy3u/Fj222cAGCMGQPwmwD+Rr3ddduN8jry0sZ63YjhVinYbyGdKMf+8xRgzBeAG6q
dx2421YZ5/gHqi3Y+stW05TgB/BeBPAOjc8XYcJ/A5lELQct7FYE+Vot3Gcu7jN8YMAPgnAH9krd1+TkLYuY3V1nNl3jTG+FDPu1l4zuXnMk5jzG8ByFlr3zfGf
PE0f9LivVf57F96KQQt520x/L9StM9BXmqK+csSY0w36krhH6y1/9zOYwUAa+0mgP9EveRfu43zHQC/bYxZQd2l/RVjzN+34TgBfP6lEM5bMfwPgFljTNwYcwH1
WpE/OOcxtZKXlmL+ssTUTYO/BfCptfYv23WsxpjRhqUAY0wvgF8FcL/dxmmt/Ya1dsxaO4X6Ovx3a+3vt9s4gVdTCuGVIKgvQFe/jDqi/hjAN9tgPP8IYA3AEeq
a9msAhlEvePuo8W9AXf/NxtgfAPiNVzjOX0TdHPwIwAeNny+321gBLAL4eWOcdwH8aeP9thqna8xfxHFUou3GiXoU78PGzz3um5c51g7zsSMd6cgJOW9XoiMd6U
gbSkcxdKQjHTkhHcXQkY505IR0FENHOtKRE9JRDB3pSEdOSEcxdKQjHTkhHcXQkY505IR0FENHOtKRE/J/hT/CbHq9hlsAAAAASUVORK5CYII=\n"
,

```
      "text/plain": [
       "<Figure size 432x288 with 1 Axes>"
      ]
     },
     "metadata": {
      "needs_background": "light"
     },
     "output_type": "display_data"
    }
   ],
   "source": [
    "k = 120\n",
    "\n",
    "Y_ziped = Y2.copy()\n",
    "Y_ziped[k:] = 0\n",
    "X_ziped = idctn(Y_ziped)\n",
    "\n",
    "plt.imshow(X_ziped, cmap=plt.cm.gray)\n",
    "plt.show()"
   ]
  },
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "# JPEG\n",
    "\n",
    "Algoritmul de compresie JPEG are patru etape:\n",
    "\n",
    "1. transformarea imaginii din pixeli RGB ĂŽn Y'CbCr\n",
    "2. aplicarea 2D-DCT pe blocuri disincte de 8x8 pixeli din imagine\n",
    "3. cuantizarea ĂŽn frecvenČ☐Ă☐ cu $Q$ dat de standardul JPEG\n",
    "4. opČ☐ional compresia rezultatului cu coduri Huffman\n",
    "\n",
    "Unde matricea JPEG de cuantizare $Q$ este:\n",
    "$$\n",
    "Q =\n",
    "\\begin{bmatrix}\n",
    "16 & 11 & 10 & 16 & 24 & 40 & 51 & 61 & \\\\\n",
    "12 & 12 & 14 & 19 & 26 & 28 & 60 & 55 & \\\\\n",
    "14 & 13 & 16 & 24 & 40 & 57 & 69 & 56 & \\\\\n",
    "14 & 17 & 22 & 29 & 51 & 87 & 80 & 62 & \\\\\n",
    "18 & 22 & 37 & 56 & 68 & 109 & 103 & 77 & \\\\\n",
    "24 & 35 & 55 & 64 & 81 & 104 & 113 & 92 & \\\\\n",
    "49 & 64 & 78 & 87 & 103 & 121 & 120 & 101\\\\\n",
    "72 & 92 & 95 & 98 & 112 & 100 & 103 & 99\\\\\n",
    "\\end{bmatrix}\n",
    "$$\n",
    "\n",
    "Imaginea noastrĂ☐ de test este monocromĂ☐, deci nu necesitĂ☐ pasul 1, dar putem efectua o operaČ☐ie de *down-sampling*
```

```
ĂŽn preprocesare precum am prezentat la curs."
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 7,
   "metadata": {},
   "outputs": [
    {
     "data": {
      "image/png":
"iVBORw0KGgoAAAANSUhEUgAAAXcAAADHCAYAAADifRM/AAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjMuMywgaHR0cHM6Ly9tYXRwbG90bG
liLm9yZy/Il7ecAAAACXBIWXMAAAsTAAALEwEAmpwYAAD32klEQVR4nOz9aXRcWXYmin0nIhARiAEIDIEpABAAMRHgmMxMZmZVVmZl1iSVapC6Zqlb8pJast2vp
bafvSR1P7/u9mo961nPWm53u3tZfq+t6kmqUumpJJVKqikrZyaZTM4gMc8zAjHPiIjrH4HvYMdFYCCTZKIk7rW4CARu3OHcffb59reHowzDwGN5LI/lsTyWv11i
+aBv4LE8lsfyWB7Lg5fHxv2xPJbH8lj+Fspj4/5YHstjeSx/C+WxcX8sj+WxPJa/hfLYuD+Wx/JYHsvfQnls3B/LY3ksj+VvoTw27kdMlFL/VCn1Pz/oYw9xLkM
p1fsgzvVYHstRF6XUi0qpxUf93Ucpj437Qxal1C8ppW4ppVJKqVWl1L9XSvn2Ot4wjP/BMIxfOcy57+XYx/J3U5RSs0qptFIqrpSKKKXeVkr9b5VSj+f+33J5/I
Ifoiil/lsA/yOA/zOAWgDPADgG4AdKKXuF422P9g4fy98R+YxhGF6UdO93AfwmgP/lg72lx/Kw5bFxf0iilKoB8C8B/GPDMP7GMIwtwzBmAXwJpUn2C0qpf6GU+
pZS6j8rpWIAfmn7s/8szvMPlFJzSqlNpdT/ZRuJfWz7b/pYpVTXNrXyi0qpeaVUUCn1z8R5nlZKXdxGbytKqX9baYF5LH97xTCMqGEYfwHgywB+USl1UilVq5T6
j0qpjW09+++I6rd/P7/98y9s69fQ9u+/opT69vbP/0Ip9c3t88SVUiNKqSf3uo9tXbyilIoppdaUUr8v/vYn2x5uVCn1ulJqWPztD5VS/04p9ddKqYRS6i2lVIt
S6v+plAorpUaVUufE8bNKqd9WSt3Z/vv/Tynl3OOe2pRSf7o9DjNKqV8Xf6vevnZYKXUHwFP39wYerTw27g9PngPgBPC/yg8Nw0gA+GsAH9/+6HMAvgXAB+C/yG
O3J9K/A/DzAFpRQv+BA677YQADAF4G8N8rpU5sf14A8H8A0Ajg2e2//+/v/bEey0+6GIZxGcAigOcB/BuU9KoHwAsA/gGA/832oa8BeHH7548AmN4+hr+/Jk77W
QB/jJIe/wWAf7vPLfxrAP/aMIwaAMcBfFP87a8B9AFoAnAVpjmBEjj671DS4yyAi9vHNaI0j37fdPzPA/jk9nX6t79bJtuL2V8CuIHS/HoZwD9RSn1y+5B/vv39
49vn+sV9nu3IyGPj/vCkEUDQMIx8hb+tbP8dAC4ahvFtwzCKhmGkTcd9AcBfGobxpmEYOQD/PYCDmgH9S8Mw0oZh3EBJWc8AgGEY7xmG8Y5hGPltD+L/g52J+lj
+7skygHqUUPxvG4YR39aL/weAv799zGvY0ZHnAfzfxO8voNy4v2kYxncNwygA+E/Y1rs9ZAtAr1Kq0TCMhGEY7/APhmH8h+17yQL4FwDOKKVqxXf/bFuXMwD+DE
DGMIz/uH3dbwA4h3L5t4ZhLBiGEQLwOwC+WuF+ngLgNwzj/2oYRs4wjGkA/18AX9n++5cA/I5hGCHDMBYA/L/2ebYjI4+N+8OTIIDGPXj01u2/A8DCPudok383D
CMFYPOA666Kn1MAPACglOpXSn1n2+WNAfgfsLPAPJa/exIAYANgBzAnPp/Djnf4GoDnlVItAKwoGc8PKaW6UEL718X3zHrnVErZlFI/v02hJJRSf739919GCUWP
KqXeVUr9DAAopaxKqd9VSk1t6+js9vFST9fEz+kKv3tMzynn1xxKc8osxwC0bVOWEaVUBMA/BdC8/feyeYjy8Tqy8ti4Pzy5iJLb+HPyQ6WUG8BPAfjR9kf7IfE
VAO3iu9UAGu7zfv49gFEAfdvu8D8FoO7zXI/lJ1iUUk+hZMC/jRKKPib+3AlgCQAMw5hEyVD/OoDXDcOIo2TEfxUlpF486FqGYfwXwzA82/9+avuzCcMwvooS9f
I/AvjW9rz4Gko05cdQWjy6eMvv43E7TM+2XOGYBQAzhmH4xD+vYRg/vf33lQrnOfLy2Lg/JDEMI4pSQPXfKKU+pZSq2kY8f4IS3/mfDnGabwH4jFLque3g57/E/
Su6F0AMQEIpNQjgf3ef53ksP6GilKrZRsl/DOA/b1N33wTwO0opr1LqGID/I4D/LL72GoD/BjsUzKum3+/nPn5BKeXfXhwi2x8XUNLRLEreqQsl7/L9yj9SSrUr
pepRAjTfqHDMZQAxpdRvbgdPrdvBZgZOvwngt5VSdUqpdgD/+AHc10OXx8b9IYphGP93lBTqf0LJsF5CCSW8vM0pHvT9EZQU6Y9RQg9xAOsoTYB7lf8TSsgojhK
fWEnJH8vfTvlLpVQcJd37ZygFHRk0/ccAkigFS98E8F8B/Afx3ddQMrqv7/H7/cinAIwopRIoBVe/ss2h/0eUKI8lAHcAvLP3KQ4t/xXA91F6vmkA/8p8wDZf/x
kAZwHMoESZ/s8oeQ9ACVTNbf/t+zgcMPvART3erOMnR5RSHpSQTp9hGDMf8O08lsdypEUpNQvgVwzD+OEHfS8fhDxG7kdclFKfUUq5tjnJ/wnALewEmh7LY3ksj
6WiPDTjvs0zjymlJpVSv/WwrvN3QD6HUhBoGaX8368Yj92tD0we6/Vj+UmRh0LLKKWsAMZRKtRZBPAugK8ahnHngV/ssTyWRySP9fqx/CTJw0LuTwOYNAxjerv4
5o9RQqCP5bH8JMtjvX4sPzHysIx7AOVJ/4s4uGz+sTyWoy6P9fqx/MTIw+pCWCkXu4z/UUr9KkrFELBaree9Xu/eJ1MPrtbmqJ3LfI5CoVD2e7FYqhOx2WzI5/P
IZrPI5/P6c6vVCqXUru9ZLJayz3kdpRSsVivy+fKuCDxPPp8vuyer1arvSykFu90Oi8Wi761QKMBmK6lRJYrPMAwUi0V9TsMwKo6bxWKB0+nU13vQsra2FjQMw/
8+T3OgXgO7ddvjMRdNlh1bcdzMY/Qg9fage5G68iClWCyWPSt/tlqtKBQKe+q2WSfNui0/t1gsuz6X55HPZbVaYRgGCoUCLBYL7HZ7mZ5K3eY9STEMQ4/XfvS21
Wp9aLodi8WQSqUqvqiHZdwXUV7R1Q5TZZhhGH8A4A8AoK6uznj55ZfLTqCU2qVsewmPPegY+X8lodGSL6vSJOM97XeP8ve9rkklpRiGgUQioa9tGAa2trawtbWF
YrGIYrGIqakpbG5uIp0utaGx20uNHTlxeE9U6K2tLf25xWKBzWaDUgq5XE5fm4oNAJlMpuwcDocDhmEglUrBYrGgpqYGPT09qKqq0sfHYjE0NTXpCSqfr1gsIp/
PI5PJwGazoVgsIpfLwTAMOByOsuevrq7G4OAgamtrD/VO70V+7/d+70GUjB+o10C5bvt8PuOFF3Za+Mix5Tvd/s4uvVNKwWaz6Xf5sIXXt1qt+l+xWNTz4v1KPB
7X1zAMA/l8HrlcDgCwtbWF+fl5bGxsIJPJAIA2rHa7vWxc+Dm/y8/4eTab1fputVr15+l0Wo8ldb5YLCKdTsNms6GmpgZdXV36+Ewmg3g8jsbGRq23Ztna2kI2m
4XNZkOhUMDW1hYA6Pl8cblcGBoaQl1d3QN9l1//+tf3/NvDomXeBdCnlOrerqz8Ckqd4g4lB6E8edy9DNS9HrvX8dKwVzqv/Pyga8oVn5Ndfp+T22KxaMNpGEaZ
MgPQSiyRfD6f12iG55QTShqUTCaDTCajkTaRSzKZRDKZ1N8LhUJYWFjQRsnpdMLlciEUCsFms5UpNQ2DzWaD0+nUv1utViQSCf08vLd0QoO27d+8iFArtO2aHkYd
kDO9Lryst9Bxjif6kEaXx4WePKkGK+iMX/gclhmHAYrHo/6UO53I5rf9SZ5VSqKqqgsPhgMPh0Ea0WCyiqqpKzw0AGgjJ+VMsFpHJZDSYIdgxDAPJZBLpdFqDj8
3NTSwuLmrk73Q6UV1djXA4DKvVustgA9D3VigU9IIYj8d3LQSpVAq3b99GMBh8ZO/yoSB3wzDySqn/BsD3UGo49B+2qy0PlPfjEu6FoA86l1Tgw3gAB72cw3gbe
11PnpsIz+VyIZvNIhwOwzAM1NbWlh1rdnUlGjR/xt/N35Wf7XUfvNdgMAin04nW1lYopeD1epFIJFAoFOBwOABAIxhgt2dQVVWFuro6RCIRACXETslkMrh79y76
+/vR1NR0qHE0e0/mZ3lQcr96bdZp0hA0cnIx5d/pwkvv8GEK3zHH7kEadQqBCxd4pRRcLhcymQzC4TAA7PLaKtGU5rGQum2mT8y/S0DD55V0TCgUgtPpREtLCwD
A4/Fo3aYHYaY0q6qqoJRCNpuF3W7Xul0sFuF07rSPz2QyuHPnDvr6+tDS0vJQxljKQ9v5xzCM7wL47r18516QeKVj78ewAzsI87CGpNK17lfMRimfz5chcqWUpk
aIPqqrq5HL5WCz2bRxkAiPyi8/r6TkUsyTiN/ZaxEIh8PweDyoqakBAHi9Xr2ISAMv74EIfmtrCzabDT6fD5FIBIZhwOVy6etubW1hbGwMW1tbCAQCh/LeJCVFI
yJR8YOS+9FraVBITZnvjUaPhtVMxTwKWsZmsz3w8aIUCgW9oMl3ZLfby7xMl8uFra0tjcgr3Y8ZeFQCN5wXwG7jT15evhd5TDQahdvtBuOAjJkUi0W9EEjwAuyM
XS6Xg9VqRW1tLaLRKACUGfhsNovR0VEUCgUEAoGHauCPxLZuVGxp5PY7lnIY2uYgkUpw0D0edF4zgtzrenv9XaIIeQyVkby1x+PB/Pw8/H4/qqurkU6n0dBQaha
ZyWS0K7q1tQWfz4eqqipUVVVpdzGTycBut8Pj8cBmsyESiWBra0sHkKiMqVSqbGyowPl8HoZhIBQKweFwlCFvPofT6dyFcuiKA9hl4AGUGfh8Po+pqSkUCgV0dH
TsOQnMlIaktfhOHoVh3EtIK9BQ5fN5jcrlwkwkye88LCO71z1SHpax2Uu3iZ6p2y6XC3Nzc/D7/XC5XEilUqivr9e05NbWFnK5HPL5PGpra8t0e2trC+l0Gg6HA
16vFzabDbFYrIz+c7lcmmeXY0y6h7odDofhcDi0xymlurpaJxNIIW2Tz+c1gg+FQjAMo2yO5PN5TExMYGtrC11dXQ9tzI9c+4HDZg4chhN/0ELEcdAx8n+z7Pf9
YrFYFlEn90jjns/nNfKl0eC1iHTIYxL9OZ1OuN1u1NTU6GOYmdLS0oLm5mYdyefk6u7uRiAQ0EbeZrOhtrYW3d3d8Pv9ZRkGcrGikY1Go0in06iuri7zQig2m01
7I3a7HT6fD6lUColEomzsCoUCZmdnMT09vcsVliK9CvO9fJCGnUKDwXdPzpjvWwb5ZIzlUYrVat2FRh8kFcRFzRyP4pwiKiZXTaMq9VyOCznw6upquN3uMo7e6X
TC7/fD7/drXp6fd3R0oLW1FVVVVdo4u91udHZ2orGxUceWOKfkfFRKMTsFbre7om5xseHz1NXVIZvN6gQIOR4zMzOYmpraNe4PSo6UcT8IsR8Wid/rhL6XbISDJ
t1B97nX9+XCwWNoPIvFog4EEcHQENDVly4s08kYkHM4HBppcJLZ7XbY7XaNzmloaOj5Oa/p8XhQVVWlPQMi/NraWm2oKR6PB+FwGFtbW7syYvhMDL4S5fh8PmQy
mbJsIaC04C0sLGBqaqoslY3/zME3/t2cdfJBCY16Pp/XRp6f8/4sFos2YI8q2EaRHLgZpT5gOquMMjQHQmlopW5LL4ci0ySZzUW9lqDHbrcjnU7rhZT6arFYdDY
O03trampQVVWFXC6nx6Kqqgo1NTWaYuQzuFwuhMNh5HI5VFdXVxwj6nYul4PD4YDP56to4AuFAubm5jSKf9BypIy7WSqt8gcpnJw0+4kZdR50H4e59mGuWekYGq
NKvDePz2az+tkymYxWenL05kCT5B2rqqqQzWa1kSFyVkppI07DU11djUKhgFQqpfOLyYXSneVk8Xg8cDgciMfj2Nzc1Ne32Wyor6/HxsaGpmh4T1K4wDBYRQOfT
CbLuHTDMLC8vIzR0dGy1E7zOzEb+KMg0guRhl2iUf571J4Gr/UovIS9PPJisYhsNltm3GVgt6qqSi+Q1EXy8/w7wQz1iLpNT5ALK+mUVCqFra2tMi+WmWGkC2tq
amC32xGPx8uyt0glbmxsACgBmb0MPBce6nYlA18sFrG4uIjR0dGKqZbvR460cQcOl50ij33Qk0Pmvr+f6x5m4pr5abqGnABSuUl3MAUL2B04ovGkuytRj9Pp1EV
RROc04kwNI3JyOp1wOp1IJpNlefDM2olEIohEIjqABAAOhwO1tbVYX18HUOIpKxkRu92uXWQzgufYAiXjsLGxgbt375bl0j9qpPt+RKmdHG0i5UrZH49KzB7iwx
QGGuX7pIFmnrnNZtOJAgA0uKg0b+x2u0bu5swsGmvWU8h03Fwuh2QyqWlFl8ulPVjpNVC3w+Ewkskk4vG4vm+Hw4GamhpsbGygWCzui+D5TPsZeABYWVnBnTt3t
FfxIOTIGff90Nhhv7OXSA77MPdxGMP+ICWZTJZdj0E2Fgfxc1IZFJl/a6ZAGMihovN4Gne6s1VVVXC73bDb7dqwEyEzWyAWi6FQKKCqqgoulwtutxvpdFoHp4LB
YJnxd7vdcLlcCAaDUErtomgo0sATGdGbMI9HMBjEyMhIGbo/yiJpCBaQmWmlR/UM8roEDTKX/mEKPT4pROjUTb5zBl5lYN4spAqZPEBdsdvtWrdJZ1JfGa+ibjP
NGCjpNkGT0+mEx+PR+fGFQgHBYFDTPvye0+nE+vp6WVzALJI6om5LL07K+vo6bt68qe3A+5UjZ9yB+wuGHWaiU7kOolkqLTAHXfd+eHYKKRnpXsrvyspPKqbkaG
X2BY+hIaFCy1YBLLzgpCJCd7lcsFgsiMfjmo+02Wxwu90oFAoaTTPVy2q1IhKJlBVFNTQ0aG4TgA7khkKhirwuxW636xiCw+HQE1e+M0okEsHt27fLPIWjKmbdY
M7/B7Eomflu6sjDFhpZadSkF8oAJr0Y0owANLrnd6jb9CjJqQMlpExahp6q1G2bzaZjOgQuTL2Mx+N6LtXV1cFisSAcDpe176ivr4fL5dLZTzU1NbDZbLqAT6Y8
UjiH5GLl8XgqUrBASbdv3bqFWCz2vj26I2Pc7xeFPSzkcxij/aCuyxff0tJSEUkRXVut1rKgD91W5hATjXECkJIhT01UVF1drYOjdGmJhPL5vObhOYHIPfJYq9U
Kr9eLQqGAWCym79PtdqOtrQ0tLS06yMtJkc/nEYlE9jXwVVVVOpBGl1b2GpHjHY/HcevWLV3YdVRFKaUXLv7+QXsbHNtH1dagWCyipaWlDN2SLmFVKQOdNIbmXH
Vy71I3bDabRtPUbeprLpfTi4bFYoHX60U+n9cFSaRkqqqqyuJLjCUx7sSFwOVyob29HW1tbdoLs1gsqKurQz6fRywW29PAA9ALOu+Tul1JYrEYbt26hWg0+r50+
8gZ98Mq271OksPQMYf1GO4lcGfO5NjrXLL4Qt6HUkqjHqXULu5d8u00/ltbW5rqoBGXwU4GR6nUXAicTidSqZRGPWZKhtcgf24usw4EArDb7XC5XGhqaioLWvv9
fqTTaSQSCX1flcaK1X4MmnESMEtHjmU6ncbt27fLgrlHTWRRUqW00EclpBMkWn9Uiwx125wKCUDTHhaLpQy4EMzQq7VarbqxGNG53W4vSzSw2Ww6ISCZTOrAP4O
bbKMB7AAUpRTi8XgZmLFYLLvaY7S1tWnU7ff79UJgs9nKdJuAyixc5Bk/k+ClUqZMMpnEzZs3dZ78/ciRMu4P6zvSqO9nZIHdDZwqiUzpOqzsl79fqSCC901lkE
iHqIFog4rJSWQOVmUyGU3J0LhzokieESHv50k3t7q6GltbW0gmk9plJrJhShhQQlaBwE7325qaGtTX15c9S1NTE2KxmA4wVeqSR0Ql0zxtNhvi8bj2EmS2TCaTw
e3bt7G2tnYkDfy9AIGHeQ/ADgA4TNHegxKZBcZ5RXAim8gB0MFUeqNyvEi/mHWb6Y6cEx6PRxc5MYhL3ZZUh1m3uRAQ+EQiEW3cbTYb2tvb9TP4fD6N2DmWDQ0N
iMfjyGQy2nswC2lSGnUi+EQioSlPKe9Xt4+Mcb+Xm78X1H4Yw87rH3YiHhbhHzZDhoaT55b3wuo9AGWUC/loosHq6mqt0ETMqVQK8Xgc2WxWowUqVDwe18rJDAN
```

G8qmwDodDI3SJmslpplIp/Rz19fUwt202f2az2dDS0qLvfb82qDT+nLjS/TXHQ7a2tnD37l0sLS0dSQP/QQu5ZHpFj6pAisCEwvfG+2AwlPcoEwUY7C0UChqNy+
yXeDyudZjVrUTd/JzXpG6TkuE92Gw2pFIp7TnIGBW7oAIlw02Uz3P6/X7U1NToBdPhcKCpqQkAdOZXJd3m/JEGnrpdycCzXcHy8vI96/aRMe6VZC8jfhjDLmmYw
ywG94OqDhrs/YKybCdA9EEqhPwjz53P53XqFI1xJS6aRk4afwAaxeTzeTgcDp3znkgkyoJTxWIRsVhM8/PSxeWkYHBVKaXvmWJuEUAaoKWlBW63W39Ozp1ehgy+
SpGBR3OusDnYRBpnfHwc8/PzjxSZ/iQI3/GjEhpt1izQKJMDJyrnHABKuk0ja04sIGWTy+V09Se9WHqgDodDUzey0RfbCpjBjMvlQi6X059L3U4kEmVdKtvb23f
RiFarFYFAADU1NZqiodHm91wu154GnrE1eis+nw9bW1sVDXwul8PY2FhZN9bDyJE27jKqfVgxG4rD8ueHDaCa6ZvD3geFCk3jKg2zdBmJUIjGZa9ourRcBAzD0D
03eB4Gmsw8o8Vi0cUacgJkMpmyXjJEeltbW5rWkRkKMl3S7XZr1CKfXalSihj5SpmKynsvFot7pkjSo+DiQwSfzWZ1sElSZIVCARMTE5ient4zG+HvklC3+N4ft
oGnUU8kEtrTI3/O32VbAeqW5J0ZJJV0DlE79Y2BV6Ju+YxcTBizYRxKep8EDkTo9GzYllrGqMy6LaWqqgqtra0ahMhAK+/b6XTuCVBlYFUGZ5lTL4X9aGZmZg6t
20fOuN+Lsa0kNHo810EijfRh3J7DVsCahemMsVgMq6urZfwxM194HJEOJwapFnmvfE4ez77UAMrcbyq6jNYzkCoDuKR8OAGIVJLJZF1xBycfKRmllFZwOS5yfBw
OB1paWspSNnl/zOndaxJwIlIkyqmUClksFjE7O4vJycm/8waeAEGmlD4s4ftYX18vy6CijnIhJyKWjbq4eJOGpOfI8xIIATteCJMLiNq5WFC3JdXCc5oXGM4ZGm
bOQ0n/tLS07JkBA5To0La2Nn0dJgvQuwVKDfEOMvAck9ra2j0pmkKhgJmZmUPr9pEw7jTiMkNkLyO/FyI2FyjdKye/FxI3f3aYhYATiimK3K1oZWUFwWBQowHzO
SSy4DPTONP48n6ZTUCkwY55UlFlTxNOJtJANOxULN4rlYx8J1GMbPYlC0HMwaa9xOPxlPVn5zNykwQAepLSEMlcZ04wTiCzgZcInv1oxsbG9m049rdZqAcAyvTm
QQp1LxKJYGlpCaFQCC6XC42NjWUgSAZCZQYVdZv3yPslfWMYhjbgROjSYHNxoKeby+V0mw3qNo+RYMZut5el/Ep9l1v9WSwWdHR0HOjNm3UbKHm+6XQaoVAISqk
9q1hp4Lmw0MDvRdFQt8fHxw/sR3MkjDtwePrkQZyHIheCvZS/UqB1v3uR5+EKTBrE6/Wip6cHzc3NZQ2JiET4smik6YJycpCPB3Z6lZCKkS17+V256wyRvyxcIj
oi7UM0wHOQ5yQKkqlcnJSVAql7ic/nQ319fZmB9/v92khbLBYdxDWP5WEMvHw3hmFgaWkJIyMjZUG9v80idZQIlymuD1qYB85aCW6/2NTUVEazSURMnQRQptuyn
7sUVojKVhgS3PA8NOKSJ6fnyfNL4CQROoCKwAUo6TbbEOwnSpUyaHw+H4CdlN6mpqYy3d7rPSiltN7L+BKLq8xSLBaxtLSE0dHRfUHmkejnTq5Kuo+VkPRebrvZ
5TysgacR2OsYeQ+H9QSoTOl0Wu8ZyaIeeQyvK+MKNK6GYWhDSoUlUuHnFE4KThCHw6GRCrNNeO+kV6jcLper7PnlBOKEkBOA9040r5RCe3v7gd6PHFO/36+DXgC
067u0tFTWjEwiMClOp1Nfv6qqCrW1tYhEIojFYjq4JZ9pfX39A6VnuHDLe7rXONK9CA0YDd6DFtZH0Oi0traWzUH5P/UI2NkMhlkwBAnSa2Sgnf9ImQDQuk39I/
rmuWVdRC6Xg3lTclmkRE9AUj30MCQQkLp9kFgsFjQ0NOhAMgAdb1pYWNABW+qvWYjguZApVdrhLBaLIZFI7HqeYrGIlZWVin1q9D0d6s4fsvj9fvzUT/2UrmIzp
xDuR8XI/++FijnIaFcy7Pvlt9P4plIpbGxsaPqlra1Nu13krJmGxao78uuSkyYSpyIwKAXsNBjjYsh/vGfJG5oLnbiIEM3LSWdGRzI7R7q+RE0sVqIcxruqxGPa
bDa0tbUhFArpjpcy+CfpGbq4HHOmkhEhSU+L90La54MQqduySvVhCbNGmKL3oKRYLCKZTGJ9fR3BYBDV1dW6Lzp1mYVzUl+AHZ6cKJveIOs3ZDtr6iiw451yLjD
BgF4AjaCkXSQNR71hMgLnIL8r6Rt+RjBF3b6Xd8UAq8ysYf0HdZtjVUlkTj6AAxE8UN5s0CxHArmn02n09fXh7NmzmJycxOXLl7G0tFTmelFkpghwuIkiUfhhkX
il4/b6jkz9qqmpQVtbm46a03hTUXkfMshDyWQyukudzWZDNpvVK7lMfZT/M1hKBMRr0eCTfuH3OVloaPL5vG60JOkbGWDlsTTuREmtra2aXrqXSWC329Ha2orFx
UV93aqqKjQ3N2N9fV279gD0pDZ7Z0T3ADRFw86U3IfzKEgmk9G6PTU1hcuXL5c99/sV+ZyyjfCDkmKx1OY5lUrB5/PpwDgXEOpUpYAt5y89QHYXZcoijbtZn4G9
9/mlbjPDhm18eQ7u0Uuak3+X8w7YAS4MrlK3mZrY2tq6a4exw4jD4UBrayuWlpY0cHI4HGhra8Py8jKam5v1e6rEmdPAk7KyWCxat+Px+KEpUOCIIPdkMom/+qu
/wrVr1+D3+/HzP//z+Pt//+/j5MmTutSdCsVA0WE5eMpBXPle39lvAhqGgVQqhbW1NYRCIW2UzRkKdAeJbmRJNM9DVCH5QebxFovFMkWgYpoDUsAOSgF2Jgv5TX
6PPbPJL/JnPi8XE1IyNPiygZnVakVbW9uu8TrsuFZCRi6XCw0NDVhfX9dueCXDznuim16Jg38QhvNBSCKRwHe/+11cv34djY2N+NrXvqZ12+12vy9DLGMXD7JXD
N93MpnUus0aCQlYJAUkUbvMcCJgkBXUQElfGbuR+sqfzZ9LZM2fZdyJ56Ues0c8gY2kJul9EiASGDEDrJJu34tUV1ejsbFxl243NjZibW0NxWKpTfBe796M4Mnp
b21tlWUiHSRHArmT75qenkYikUBnZye6urrw1a9+Faurq7h8+TLu3Lmjy4TvRSoh/MNww5V+lue0WEpd4/L50l6O3M+RQuNuRuzynDL9iz1buIM6i4Q4CWSvDem
KSc+Ak6FQKOgqUlbw0SUmEuNEo4Ilk0mdMcBzZrPZsn0hueAopVBXV6cDSHuN037jy3NsbW3pjQ8Mw4DX60Uul8PGxgaamprgdDp1iXml98B+OFwcfT5fWYuDgx
bohy00hrOzs0gmk2hvb0dnZye+9KUvYXV1FVevXsXdu3fLsn4OK/SoZJYY6xHez/0C0MU9Xq8XPp+vzHuTaH2v+UjDT89S7kzE3unUbXMPdwISwzB010bqHYOl1
HfZWoMZMARNPGcikdCeBu+J84yLA+kd6pDP57vvhZLGOJ/Pl/WG8fl8u3SbefZmkQie56yrq0M0GtVtjA+SA5G7Uuo/KKXWlVK3xWf1SqkfKKUmtv+vE3/7baXU
pFJqTCn1ycMMBjnmUCiEiYkJNDY26gCCUgovvPACfu3Xfg0vv/wy/H6/DoBUGnzz55UGbq+XdhBtI9OtyAN6vV7dnpaIQHLaROgS2ciWqxLlyxJxlkxTESVK4YT
g52wbIPPdadSZ+8tjE4kE0uk0YrGYNprJZFLvYcrP+CxE/wwSc0GSFamHpcY44SVN5vf7y0q7AaCurk63CS4Wd9oUVIq9WCylakNZVs4MBxm43uOeHpluh8NhjI
+Po7GxETU1NQBKE/gjH/kIfvVXfxWf/OQn0dTUpOMz5jGVnif/Ucek3K9hp3dHD8+s2/TyaMzpiTqdTo3quV+prGMgGJFFVC6XS9MO1Etew1yMx3viJhs8nvcpK
2BTqZTWbea7x+NxpNNpvdGM9EqlflC3rVYrOjs7D2U89xOldloES2lsbERVVZXW7b1y4IEdA897VKq0Qc5hAcBhkPsfAvi3AP6j+Oy3APzIMIzfVUr91vbvv6mU
GgLwFQDDANoA/FAp1W8Yxr5hexoip9OJgYEB1NXV6VV1aWkJQEn5hoeH8eSTT2J0dBRXrlzB6upqxQn8fl3TSt9ngyEAZcaICiEnlUQ3/L2St0A+WX6Pis58dHN
RBZGKDDzxM5kxII0yaSE5gZiuZRgGotFoGScv+fZKLq/L5UJzczOAw2/RJjlPOQ4WiwVtbW2Yn5/XHoXFYkFzczOWlpYQjUbh8/ngcDj23KWGCF52FaRRkRWDFe
QP8Qh0O5vNwul0oq+vTy9cVqsVy8vLemwGBwfxxBNPYHR0FFevXsXa2pp+zxS+R6nvD4KGkTnVNTU12jjn83lNHxA1Uz/M92Z+r4zVkMaTWTE04PzHc5pTcunBU
m8JjOjBc/7IbDEZyzIMA5FIpGy8pG5z3nA3J6WULrh7EML2G4uLi3ocGKtaWFhALBbTexDL7pbmc1RXV5cheHofMgOvkhxo3A3DeF0p1WX6+HMAXtz++esAXgXw
m9uf/7FhGFkAM0qpSQBPA7i43zXsdjvq6+uxtbWFhoYGzddtbW1hYmICm5ubCAQCuHbtGrq7uzEwMIBf/MVfxPz8PC5duoT5+fmy8v17kUoISQqzBDKZDBwOR9l
Ky0lARZeIpRKCqhQkqqqq0hsIEFVQYanEsqgJwK6XKvPTec/m8eC5pUgXWNJIkouUE5lNnFpaWsry9A8jZo/IHAikwssWC/yMO+k4HI49U79kzj6NoESaleRR6H
ZVVZUuK29oaCgLpk1OTmrdvnnzJo4dO4b+/n78/M//PBYWFnDlyhUsLCzsCr4+CIMO7PQtSiaTcDqdcLvdu67Da/OaNPSSe5dAhrrI42UyAalFpZRulke95nyhd
0uh/ssNTsyAjrrJBYjnZMxI3pMcS1kHUigUdBzoQdYFVFVVaQMve+W0trZifn6+TLf3Ai9sTCa7VJrp2Upyv5x7s2EYKwBgGMaKUor5cAEA74jjFrc/2yVKqV8F
8KtAqXpxeXkZ9fX16Ojo0C93cXERSpV2J5+ensbx48dx/fp1LC0t4amnnoLL5cIXv/hFbG5u4tKlS5iYmNDu3r2KGU0ScdH95C5FUjnIQfNv2+NRll7Iz/i7nAw
s0ABKbiHRNF9aJBLREX95jwdNbiqsnJRyUTF7C5IukfdNpM1FgK43W/sedB8Sqe9Fo1HoDSwvL+sJarPZEAgEsLS0pJsyEaHzPuVCRL1hOqUMUN+DPFDddrvdWF
lZQV1dHQKBgL7H5eVlWCyl3XxmZmbQ3d2Na9euYWlpCU888QTcbjd+9md/FqFQCJcvX8b09PQD21+Tuk0asLGxUeu2NOLk7+kJyUCmFJntIgEBYz2yUykRMnfwI
liiYRZjuGcwHdhJQjADOi46UrhwVAJ/1G3O84MqUu9HnE4n/H4/1tfX9fPY7XZ0dHRgYWFBU7Z75cADKNNtSXHuB2gfdEC10qhUvLphGH8A4A8AoL293eqy8ITf
79cv2zAMxGIxLC8vo7a2Fh0dHRgfH0d/fz9WV1dx6dIltLW14fr16+jv78enPvUpvPjii3j33XcxMjKit83avtbODQpjZzY4VGg26ne73RpJUPlkP2zpEtJoykG
XSiX/McWRHDl7Z/h8Pn0+7mkajUb1JJM9Y/ZC8eZnNI15xclidq/lcdLbYE75Yar29hrj/aS2thbZbBbBYFB/1263o7m5WU9AGhszpUVDwBgHF2YuwA9A7lu3A4
EAmpubddBoNRbfGlpCT6fD4FAAJOTk+jr68Pa2hquXLmC1tZW3LhxA729vfjkJz+JdDqN9957D3fv3q1YLn4YKRaLOv7i9Xo19UlEK3Wb7426LWMe0qhKr89i2
eneyGAndbu2tlbnuBMsyeAg74Vzhxk4h1mYpY7yOc2ASoosFuT/DoejrMr0QQq5csYV5Xxqa2srS9+kx1lJCG4kxbOf3K9xX1NKtW4jm1YA69ufLwLoEMe1A1g+
6GTZbBbz8/M4c+aMTn/L5XK4cuUKenp6sLi4iEwmg/7+fkxMTKCzsxPpdBpTU1Noa2vdD7/7XfT09ODMmTN47rnn8Nxzz+HmzZu4fvO8kDMmTN47rnn8Nxzz+HmzZu4fv26DlxItE2RFIrsQcHc0kp
UAv8uXTsaebMRlwrGc5NvpDtssVjgdru1q0XUwwKGSCSCSCSyi8YgAqqpqdGZIZxkRLfSxeWiQgTMz8x57MxqkIFeqWwSfe5ntPejYfb7jt/vRy6XQyQS0Z8xY4
JZEdxGzZzOBuyUfhMxEsHfgzxQ3c5kMlhcXMTZs2fLMo/ee+89rdvpdBq9vb2YnJxEZ2cnUqkUpqamEAgE8L3vfQ/d3d04ffo0nn32Wa3bN27cQCQS2df4Se6c7
5KBPvN7Ye65pBNZ6Sn5dqAcqfM4culbW1tlus22tzJzzOl0oq6uTus2jRWNOuci3zM7kZIfZ6YL40ucVzIdVFIg/J3IWBpQ/k+q5B515dCilNIVrIzdKbXTc4a7
pxHY7lVdLIsJeY695H6f5C8A/CKA393+/8/F5/9VKfX7KAWd+gBcPuhkDKSyusswDCQSCbjdbty5cwf9/f2IxWKYmprCwMAAJicnUV9fD7/fj5mZGQwMDGBubk4
rrsPhwIkTJ3D+/HmMjY3hypUrWFtbK0NwzDUnp761tQW326255EqThtyg7DhHd1aiaTOKIP1Co55KpWCz2fQGu7L4iC+NPUGqq6v1jjGkbugaV1dXl9E8vA9el4
oiFx4+h/Q4qNBWqxU1NTUIh8OoqanRqCuTycBisegGSYeR++WIGYSSm4EopfSCJhG99DDMKIYTxWywDiEPVLerq6sxODhYVrmYTCbh9Xpx9+5d9Pb2IhaLaT2em
pqCz+eD3+/H7Ows+vr6sLCwAIvFojn7gYEBnDt3DhMTE3jvvfd0XQDHQVIasq8Rvb9KIseY+eykUczVwvJ9MlOLepJMJrVu83w0VNRfIlDqN9+1rEB1u91lwU9S
RlKHJfLmwk9dlrrNQGltbS1CoRC8Xq/eTpLXrampQUtLywOnZKTIRAG5hZ9sqcH6DSYXVBK+w4N6Jh1o3JVSf4RSgKlRKbUI4J+jpPjfVEr9MoB5AF8EAMMwRpR
S3wRwB0AewD8yDsgmAKB5Jum23rlzB2traxgaGsKdO3fQ0dGBtrY23L17F/39/VhZWUE2m0XTOKIP1Co55KpWCz2fQGu7L4iC+NPUGqq6v1jjGkbugaV1dXl9E8vA9el4
rVqwiFQjp9kL0ZPB7PrnQ8mbJnpi1kUQ8pE7NHQDTBSjzuiORwOPTu6jJYyZ7TqVRK78nocrngdDpRU1OjOz8SIdFY82dej5OC98pAk8x6AXa8CVnNyk52sjujd
AGbm5t3pXbtozf3hNql2O12BAIBzM7OlnkNslcODbz5uaRIBL/HPT503eYkZTEeANy9exdra2s4ceIERkdH9abiBDJra2vIZDLo6urC1NQUuru7EQwGEQ6H4X4Xa7
tW4//fTTuvL12rVrCIfDGiCsrq4ilUrB7XYfuqqR9IvM0JJ0DKkXCVi4DwB1u6GhQc8PmUqbSCSQSqXQ2NiITCYDt9uN6upqeL3esn4sUieZQcKUYG6BJ++Xx/M
eqS+S+ycoS6VSeuGSSQcWS2kLSLmpzMMSu92+K8DKxYd6KnPc9zLwh+kddJhsma/u8aeX9zj+dwD8zkHnleJ0OjE0NKRXJK66xWKpsOn06dMYHR2F1+tFX18f7t
69i+PHjyOdTmN2dhb9/f2Ynp5GU1MTisUiwuEwOjo6EAqFUFVVherqapw6dQptbW24cuUKpqenteGtr6/X1zWjW/4sAzs0lDIlTdIDskMjjfrW1hacTqd2h6mUT
Mdi58h0Oq077AElBXW73XrzAyqA3OCASJYLjQxg8XfJqcooO11ZTgQ29CLiYuAN2On/cq9yL4ZdHltdXY1AIFC2+4xEk/ydNBL1hcfIwNU+QbmHrtvV1dU4ceJE
WZdCGp3Z2VmcPHkSY2NjcLvd6Ovrw/j4OLq7uFkdSgqtXr2JqakrrXn19fRmPfpCQHpDvgYhZAhZSi4lEAlt
bW3A4HGhsbNT6JYvnEomE3nGMNA9pFrfbrTPCWJgkW/wyM0oaaXqnXACYgEDvggbP7MVms1ntVUjgxUycQCBw6LTe9ytOpxPNzc1lqdwEKwyYEsHvlSLJBWG/+X
Uk2g9sbW2hsbFRu9LxeBwXL15EIBBAbW0tRkZGMDg4iK2tLSwuLuLUqVNYXFwEALS1tWF8fBxdXV06At/Y2IiFhQX09fWVBSHZVx0ovXCv11vWIhfYG3FKnl3y4
9KwM5iUSqW0F0HFp1dC48rS7pWVFWxsbCAajeo0PrlnqsPhKGuD63K5UFtbq4u8WMzEVZ5onYjJzP/Ltqh0sWVOuwz2UvFk1Z55jMwiI/nv18WtqamB3+/XBlte
Y2lpSdNF0oBXMmQPo+XtYYX6SOMej8dx6dIlBAIBeL1e3LlzB319fcjn81haWsLQ0BDm5+cBlDoujo2NoaenG1iZ94/F
o1H0YoyUDpzLwT6+UMY54PI5wOFym28yNJ1pPJBIIBoNYXV3F5uZmGa+ezWa1XjgcjrICNbfbjZqaGni9Xm3AOaf4HcmVUz9pHGWxHxd6mVvP4kOZc8/+6XIz94
ctSpU6PtbV1ZXNJVJWpG32o9F4nofBuT9QYY4tlTAcDiMQCODu3bvo6emBy+XCzZs3MTg4iGg0itHRUQwODm2vo7u7m49CbIJLC+vo7u7m49WMAORSHdf
NlYiDQEUZ/Z4EsXiEiBwVgiaWa+ACXExuoyGZhMJBK6go7KKDnSYrGIRCKhqRsA2sATRVmtVt1gTBpiIh/eKwOz8pl5DSl8HukWAjtpV2ykxIXyUYoMsPlaNpsN
TU1NWFlZQXt7+6484PtJhX1YUl1dXdZDJhKJaHrx+PHjcLlcGBkZQX9/P6LRKMbGxjAwMLS9vb2dnE9CQDB3jsHCY2j5LYB6P12WdbP3HT
qHr9Lox6PxxGJRJBOp/X3uMjzPpLJpDak5MhJr8nPqqqtG4TEHFbPWCn4R3nqvTWpJfNe5BzgAsV4wxs9PcohQFW9ovhmDM7jLot6zfuVY4Ecvd6vWUbMVy5cg
XhcBgnT57U+b1DQ0MYHR3V+aF37txBIBBAVVUVZmdnMTg4iMXFRdhsNjQ0NGB6elpXAwLQyIYpcoZh7Eq/ImqRKJ2GXXLwshmRYZSq4NbX15FMJuHxeFBXV6cNO
w1uMBjE4uIiVlZWEAqFtMspeX2JpGUmi9Pp1G6rrDpluiTT2gDoRYMoBYA+XuZ8m7N+ZMEP74Fuq9vtPnTV3kFo4l6/o1RpGz9y/bxfNmJiladsxHaUhP3pKe+9

9x5CoRCGh4cxMzODTCaDgYEBTExMaHrgzp07aGtr07rd39+PxcVFVFVVob6+HnNzc1q3acgZICQgMGc07RdUlkCGG1Dze+FwGGtra5q/l9XjRPfr6+uYm5vD8vI
ywuFwmW7zfoioZZ0IqQdZtEgjbLfb4fF4dGBWqZ1N2eVmMTyfbHJHsCKvyeO50DC4S4rkUYMW3qvf79/VfdLj8aChoUHX+XABvOfzP6gbfT9CSoFcXmtrK/L5PO
bn53Hu3DmEw2EsLS3h7NmzWFlZQSKRwMDAAMbHx/WWdURCsVgMsVgMvb29ms4gT0sDJis5ZUYJkTuRDLDTIoDf5bnI4S0vLyOdTqO2thY+n08H8ZhTvL6+joWFB
ayurmr3VLqY0h2urq7WL5GcJXNw2aebCin/2e12eL3eMoQo3U+mqsnVn88uq/gk7UQ+326362DTfhNATuT75dn3Enbpo4vKCer1elFTU4OlpSXt0bzfniAPWmRX
z62tLbS2tqJQKGB+fh6nTp1COBzG6uoqTp06hdXVVSSTSQwODmJ8fBwejwfNzc0YGxvTuh2JRHD8+HGdCsiOntRv6alSt/n/XgZe1mkQFGQyGSwvLyOVSqGmpgY
1NTVlbX4zmQxWV1cxNzeHlZWVMt02JwswJZKAh5lfAHSXVNYvsFcNP7fb7aipqYHL5dIUKg065yELpmQiAQPDknZkqi+PczqdaGlp2bURxqMUtro2Nx3kmLPY7X
50+0gYd2ZqxONxbGxs4Nlnn8U//If/EB/72MeQzWZx9uxZKKUwOjqKoaEhpNNpLCws4NSpU1heXkY2m8Xx48dx9+5dPVCrq6tlBVGSf6bhkuhGGnhgh8ahwlNRU
6kUwuGwDuY1NzejoaGhLKCTSCSwtLSE+fl5bGxs6J3X5TESfcvcc3kO3i8Vvbq6uuw42T4AgM6sYWYGEYq5zakcC5nfLwM3rPK02+3o6ek50AgTfT9ow05xOp1o
a2sr864sFotGkuvr63oCPMh+5u9XyOsmEglsbGzgwoUL+OVf/mW8/PLLyOfzOHPmDJRSGBsbw+DgYJluLy0tIZ1Oo6enB2NjY2hubobT6cTq6mrZnpzS6+JCLnu
7871Wyq6QfYlSqZTuTmmz2eD3+1FfX68BD1Mrl5eXMTc3h2AwqHVbxq6IkqnXZt1mnjdrMsi9y4WJ+sh5x1iTbJUrG+gRrcucft6zTCzgM5Oy7erqemSB1L3E6X
SWtb/mAtnQ0ACbzYaNjQ1dr3Evun0kOHe2ut3Y2MD3vvc9dHR0YHh4GL29vRgaGkIoFMLQ0BBeeeUV3L59GydOnMD6+jru3LmjufdOOo2hoSGMjY2htbUVHR0dZ
RwxU7FkCqAUokH+LxE7sNNciW1LmQLJNrmFQkEHm5j1QtTCiL5E/0TiFF6TCw9593w+r5E7ERWAsja4pG5IFzHIKDtEyniC2W3lBJLKTwPxzDPP4POf/zxee+21
inm1D9uoAzs57Aywrq2tlbn2zc3NWFhYQDgcRl1dXVnW1Qct1O3NzU18//vfRyAQwNDQEI4fP65jSFK3h4aGsLGxgTt37uDEiRNat4nmW1pa0N7eXqbb7H0k01q
BHZ2WtRiSg6duM52RxXDUfVk8lEwmEYlE9HEU0oUyLZhgxAyUOCekbtP7ZCCfRlkWIcnWH4yvkKKR3gFTOOnNyIArFyhm8tjtdjzzzDP43Oc+hzfffPNBVTHfs/
CdeDwe1NfXY3NzU+u71WrV/ZXYQA/YWcAPkiNh3GkAu7q68NnPfhYjIyP40Y9+pIub+vv7EQgE8KUvfQljY2O4desWGhoa4Ha7MTIygoGBAUQiEUxOTuLEiROYm
Zkpy1BgsFC2M2U02pzmKJVlr3RGYKe6M5vNIhqNIhqNamMqhUpDV1EiS7qMEjkT4Utu3G636/4TwE6gk/0oZLyCL91qtcLj8ZS1BmZGjOTZaQB4f6RvqGCjo6NQ
SqG7uxtjY2O73P2HadTN37VarWhqakI2m93V7Y+dJe12u+bnj4Jxp7Hr7OzEpz/9ady5cwevvvoqnE4nent7dYHTF7/4RYyOjuLOnTs6u+r27dsYHBxEKBTC5OQ
khoaGMD09Db/fX0ZRMUOLi7g5nZE6JcfDMAydAJDNZnWtB/WehjIajSISiWjDazbY8jl5T5L2lLoHoAww8X7pvRI88Rykcngss4IsFgu8Xi/S6XTZgiAXHRZjkR
Yj3RmPx3X8bHx8HEopHDt2DJOTkw/wrR9eOC5WqxWNjY27NuSQhU82m023ROEz7ydHwrhLN7urqwvHjh1DPB7H+Pg4RkdHcfPmTbS1tWFoaAgnTpzA6dOnsbq6i
nA4DL/fj/feew9dXV2orq7WiIcRcEnF5PN5HYVPp9M6U4b3IPNpU6mURimkO2RaYSaTQSQSgU0n3QSYdQmSWHLV1TiWSo6JJ3l6mVTqdTG3KllN4Sj0ZdxgCY
NcPFkv/sdrtGRkQ0ROqyQpb3kcvldJBnbW0Nb775Jl5++WXMz8+XbS5wLwb+fgy79GxkpkwgEEA2m9UVrBwv5sUHAgHY7fayDJoPSmhYbTYbjh07pnV7YmICY2N
juH37NgKBAAYHB3HixAmcOXMGq6urCIVCaGxs1C04CGSGhoZ0mbxMbyUIiMViSCaTevNzSckQWcueL9XV1WXbEpLKY2sAFt/RyEq6g/ojW17TM5Q92YEd75JgKp
vNamqJ52BGGKkapZT2VumxchFhaw2+Y3oukvKUC5Dk33nd9fV1vP3223jppZd0i5NHJebYHm2g3+/XWUI8jttSLi8vl83rg7yNI2Hc19bW8Bd/8Rc4f/68DpzV1
tbqCryVlRWMjIzglVdegdPpRH9/PwYGBjA8PIzh4WEEAgG8++67sFgsGBgYwOjoKHp7e8sqR8nHcRBpNCUSBaDzzAuFUgtQBlvMnLvsgZ5MJsvSFGnwiLjponIS
SgML7HCTsuiC/eOpiDQQsm+5ROUUGn25EYhMaZQ9tGVOMJ9f3hcXqldffRXPP/88jh8/jjt37pQFog/Dxd+PSO/GLHa7He3t7ZiZmSkraGL13/LyMo4dO1bWw/6
DkrW1Nfz5n/85zp07p/vyeL1ePPHEEzh9+jRWVlZw9+5dvPLKK6iurkZ/fz/6+/sxPDyMU6dOIRAI4PLly7rtANOD5cJHGkLqNlC+ITOAnXFC3Taj+1QqhWAwiF
gspo2kpP+IeGlgJRXIf5IqAaCPkb2PuPEGg/T0oKurqzXYYWBXvju24nA4HGULDLDT+13WZ8h5wZ8lLWUYBl599VV8+MMfRnd3N+7evfvgXvw+Iu2NOVVV7i8sq
2vZWXJ5eRmdnZ2HSt08Esa9WCzi7bffxttvv41AIIAnn3wSp06dgs/ng91uR3d3N7q7u3Ue8OjoKG7cuIG2tjacPHkSg4ODGB4exuLiIubm5tDQ0KB7aQA7SJkV
apJvlmldwE7pr0TfhUIB0WgUoVAI8Xi8rIUpXUTm93IvTxkgYhaQdFGVUnsGSKng5Ca53R25+2KxWLYbOu+ZLhsAjdJlfIGGX+5uI5EOPRfpVttsNgSDQbzxxhv
4xCc+obeLA3Z32HzQst853W532Sbbssirrq4O8/PzOHbs2AeePWMYBi5evIiLFy+ivb0d58+fx/DwsO4r1N3djePHj5fp9vXr1xEIBDA8PIzBwUEMDQ1haWkJs7
OzqK+vL9NtvrN0Oq0RNA2GOfZAAyo9RuoSi+7Ia9OouFwu7Zna7Xa9uQSzwmS1J1E7AN2jnNensZa63djYqKu9+Y/HUnjPldC8Wbe5hR91H4Ceq1yE6AFzvm9ub
mrdnpub097go5BKtIphGHC73ZqK4ftg8Nnr9WJpaUm3Rt9vjhwJ405DZxgGVldX8a1vfQvf/e53MTw8jAsXLqC7uxtOpxO1tbV46qmncO7cOaysrOD27dv44Q9/
CKfTicHBQQwMDOCFF17YVUAhW5ASyXBjAiqHNIo06vl8HpFIBMFgUJdayywbmZPrcrn0vpNUVBpRGdiRLYRlgJMtC2goJTKjcWdQ1WazIZlMavRERERMelWiL52E
uPFF/MBjU1I0cE04Wc05tsVjEG2+8gRdeeAG9vb24detW2YJYScHux9jLVMrDeATssscybkptbS1yuRxWVlYQCAQO5CYfthBJr66u4k//9E/x3e9+F0NDQ3jqqa
fQ3d2tqZHz58+X6faPfvQj2O12rdsvvvhiWdYTdZsFdEAJSHBrPOodr8/UWi7o0WgUwWBQNxeTacKcF6RKiKJZYMQsLInSpacqO63S8JMylIVN7F4qdTsej+vaD
qfTCY/Ho3WbtCDnIXVb0hSMsXHeEDBV0u1CoYA333wTL7zwAo4fP45bt249dH04SB+ZCplOp7G2tlYWS+DerCsrK2hra/vJMO78nwpSKBRw/fp1XLlyBc3NzXjq
qadw9uxZ+P1+2O12HDt2DJ2dnYjH45icnMTIyAiuXbuGQCCAkydPoqOjQxtLGlgOklydZZtNeVwoFMLm5qbmHCky3Yqcn6RdZAMWiZiY7gXsIHQiDEkNMcdX5qv
zZ048j8ejG3xxrMLhsJ6gpHDcbrcuomGVJ4NWvCcaeDYmk0ab70Qphc3NTbz22mv49Kc/jampKSSTyQeK1jnp78ULUEqhpaVFxz/k/fr9fiwtLWFjYwONjY0P7D
7vVeSz2Gw2bXhv3LiB9957D42Njbhw4QLOnDmjW3B0d3fj2LFjiMVimJiYwN27d7WnOjQ0hGPHjgHYQcQyy0qCCYnsqPuZTAbBYBChUAixWExTlaTtGHMhlcJsG
Nl+gLptrs9gsJRplbItLRcZ6jZjRdRpqduZTEYvEkCpkIpzkLpdXV2t+9SwrQiDw/Q4HA6H11lPZnsMs4XAYb7zxBj71qU9hZmbmvvvlH6QH9woympqakEqlEI/H
dQYTADQ0NGB1dRUbGxtH37g3NDTgQx/6EMbGxhAOh7WBYlAvGo3iO9/5Dv7mb/4GAwMDePbZZ9Hf3w+3243a2lo8+eSTOHv2LJaXl3Hr1i38zd/8DSwWC86ePYs
LFy6U0Q9MiWRGBVd0Km4wGMTm5qZWFLOQW2cFHe+RPCZbDBAxu1wu3VqBvCZRjyysIFKRVAcXABoEGXgy8+cAypAMecl8Pq/bHchxlZW7RFUS4UhUznt6++238c
ILL2BwcBBXr17dU1nfD2q/V7HZbOjo6NBBcnkPTCN71KXlUhobG/Hcc89hfHxcd22UvHgikcB3vvMdfO9738PAwAAuXLiA/v5+eL1e+Hw+PP300q0qnbDAy73W4NWmTWELATuA+FQnjzzTfx0z/905iYmCiLab0fkazE/Rh4p9Op05BlcNlqLe17MDs7u/e1P2g+EgCOHTtm/Nqv/Ro6OzvR19eHhoYGFAo
FTExMYGRkpKy5PbCDatkru7e3F8899xyGh4fL+rLTvVxZWcHS0hIuX74Mq9WKaDSKTCajS783NjY0py6vIdErlzsFTOQhJWpWqtSZLhaLIZfLwefzaYRNhZJ0CA
2pLJQiWqHRdjgcaG1t1al9W1tbiEajSKVSWF5ehs/n0135eE+sbuWiKNFMJpPRrjW9EKAUAJP50tXV1dq15cJgs9nQ2NiI3/qt30I4HMbly5crKuy9GGjyr/f6P
fP1DMPAxsYG5ubmyu6JXO3rr7/+nmEYT97XBd6HHDt2zPiVX/kVdHR0oLe3F42NjcjnM5Tt27exvLy8KwWvUNjZf/T48eNat2tqavQYMXi/urqqN9O22WyI
xWI6lXF1dbUMqQM7AEIuptRt0jLUSRlTYiCT3UvltnkM+jGnn1SOTC2mFyp1m31dqGPM8U4mk3rfWeo2r0OUTkPOf6Sk6JnLiuuamhqdOpvLlfZtZZBW0j/Nzc3
4zd/8zX11+16E47sXHXSY79Oj3dzcxNzc3C6k/s477yAej1ecOEcCuWezWdTV1eG9997D7Owszp49C8Mw0N7ejuHhYcTjcy9exd37tzB5uamRrQ0kAsLC/jDP/
xDeDwePPHEE3juuefQ3t6uByaTyWBzc1Pz4mx0tLGxUVZ4ZH4BEs2QV2fwSVaHyqAOMw4KhQIikYhWZMkRSk5Spo/JRkpEs+TCZRCW3oN07XkuxgHMefDk22UwT
no0pJVkh0kZlKNEIhG89tpr+PznP4+JiQmEQqH39e7pTt+PYZffkTnCa2trOiOJtQEflGQyGdTV1eHatWuYnZ3Fk08+iUKhoPlzqduhUEjrIjeOWFhYwNe//nV4
vV6cO3cOzzzzDDo6OvSYpdNphMNhANBV3nvptnyPldIZeTx1kTRHbW0t7HY7wuGw1tVoNKpRMztfkpYkquY5pW6ziM8wDKRSKY3gqdssvmMfGsYFqNs0yGwVzII
2qdtcaPjMLEBkIzzZokAmQCQSCbz66qv43Oc+p2m09yP3atSlPtMD4dg0Nzcjm81ieXl5V0xsLzkSxt1qterNrxcWFvD222+jo6MDly5dQktLC86ePYszZ87g6a
efxvr6Om7duqVdJ6YIMX3x7bffxhtvvIHOzk6cO3cOL774IgqFUmuAxcVFjI+PY319HbFYrCxfG9gJ6slyfuZ6S/QjeXIiCwB6clDhieD9fj98Pp+mZ5LJZBk6s
lgsWqEBlPVUJ/Jk1gLvjwGqzc1Nrezc3YaKn0gkEA6Hy4p9uCBKbh/Y6YHCNqq8N9JA0v2/fPkyXnzxRQwPD+Ptt98uWwDuB7Xfy3fM92028IFAQCNX+V4/KLHZ
bBgbG0N/fz+Wlpbw5ptvor29Xev26dOnNX++tramdZv6RmTKdOG33noLgUBA63Y+n9e6PTY2pnsZyUIemZ/O1ELqNr9Pw0iqiDUeTIukwaau8TsNDQ2aWmHKpPR
sGdzkLkr5fGkvA+p2IpHQHgAXHLbiDgaDu3Sb6ZDpdBqrq6tIp9P62cyZMNQNegvUbaZkmmMOhmHg8uXLeOGFFzA8PIy33nrrfaB2aWmHKpPR
vbkUwmEY1GD3VfR8K4A8CxY8cwOjqKnp4eJNJTE9Po6enB3Nzc0gkEujp6UE2m8WxY8fwwgsv4KMf/ShmZ2dx69Yt3fvaYrHoXYw2Nzfx7rvv4sUXX9QR59XVV
UxNTZW1DAWgV3vydtzUl8eRZwSgUTODmnShicCZcw5A5/+y5a/sXKeU0nnpRM4sp5YpkTwXETiRfbFY1HtCMguDvDm3WJOpZ5zklQwdFTyfL+1dKTMwaNilMkWj
Ubz22mv42Z/9WW1QHrZR55jx/72+S35aVrB+kNSjYRi6QIa7h01PT6O7uxsLCwtIJpM4duwYcrkcOjs78eKLL2rDHhkZ0XsW8P0BQDAYxLvvvosXXnhBZBZ4osLy/
rFsKyeIl6TcTM7orkvmlkaVwYTyKYoG6TepEbOvMcwWCwbG8CpUqbmkt6hvnnspCQgV+mTcpiJ+o25xv1MhKJ7IrFyblcSbiIuVwu3TSMui2r2IFSe4LXXnsNP/
dzP4fR0VEEg8F7et+V4hmHERpy8/yUOs+6iLGxsUPl4x8J414oFBAMBnVzpKamJgQCAYyNjaG3txehUAi3bt1Ca2srvvOd76CtrQ3mJyN6I2yn06mLWGi0qVSyq5xc1YmSzPnADNyQqzO7nDJ7xuv1wuVyYXNzU1Mlm5ubmi4hPUMkw6Am74UvkWiHngOvyUyXpqYmM0D1YWNjQ6Mv/iw9EP6juy2V
j4iAn8nSb1IzvPZ+6P2NN97YN2ov5X4pGN7vQX83jNJ+pQywfpDVqUBJtzc2NnRTu+bmZrS1tWFsbAx9fX2IRCK4/vrrz4MG4+fuCidiSMO/uuT01NYXBwELOzs0pxl3YkzI7XaX7bQlV
V4H5tYbbD1O9N7Y2IiNjY1937E06Peqa1ykJNDaT9+VUqirq0NHRwfm5ub2PfeRMO7pdForx927dzVan52dxcDAAGZnZ1FdXY3Ozk6MjY3pVgRzc3Noa2vD66+/
jnA4jM7OTjQ0NOBjH/sYnn/+9jcPejr68PZs2cR8qskLIrxeDw6LiA3OZGtCQDgypUreOGFF3Dy5Em8/vrr+yKJ+0kJe79ZNM3NzXrDlA9K0uk06uvrkcvltG5vbm5idn
YWQ0NDmJmZQXV1Ndrb2/V2evF4HPPz82hpadG6fezYMdTX1+Oll17C888/r3f+klSF3GBFLsQsUpNZWgRU1H1ZQUrKkRlT1F0uItRLSc9Qpxl3YkzI7XaX7bQUi

8X0ph5E+1K32dHywoULSCQS+Pf//t8jkUjA4XDA6/WisbERgUAADQ0NZbTO/Px82S5r1Bk+IylSondSruZMH47b1atX8ZGPfAQnT57Ea6+9tq/R5sJj9gD2Ej4v
vRD5+WFEqVLx3kHUzIHGXSnVAeA/AmgBUATwB4Zh/GulVD2AbwDoAjAL4EuGYYS3v/PbAH4ZQAHArxuG8b39rlFdXY35+Xn4/X4cP34ck5OTaG9vh8vl0tQMN9z
lJgYDAwPaBR8YGEAul8PGxgYsFovuSePxeBCPxzEyMqLdOrpjzCjhqk6Fo8tHOoRKTwTEF0LKhJwnXwx5f6KdYDCoEVQwGNTIw+fzwev16ra8smKQue1URHKEsp
p2YWEB3d3dePbZZ/HNb34TSpWKdpqbm8s6S1JqampQX1+/Lz8u+5J4PJ6yHX5kCh2wg95ff/11fOlLX0JTU9OuNgDyvPzOtn4cpHP3bNDNGQR8V52dnXt2+3sUu
u10OrG0tISGhgb09PRgfHwcHR0dcLlcZUBmZWUFJ06cwPLystZtNsljhpdSSntwLpcLqVSqLMuGegpAGyrqNg0yDRnpO4IFGkQG1Ynk4/G4fhcsbmIri1AopFEw
6ZmqqirU1NTA5/PpPjaRSATRaFTrsMfjKTP6bAtAA7+4uIju7m5cuHAB3/rWt9DU1ITW1lb4/X4dD5MAhQVfm5ubFYELP2Pqr9fr1XOScSxem/MmFovhjTfewN/
7e39PN6PbQ4fuCa1zPpvp0XsV6vZ+BXqHQe55AP+tYRhXlVJeAO8ppX4A4JcA/MgwjN9VSv0WgN8C8JtKqSEAXwEwDKANwA+VUv2GYexJiuVyOQwNDWFychLpdF
rvndre3o6nn34amUwGzz//vE6z8vv9iMViWFtbQ319vc6uIR1y/Phx5HI5zM7OYnJyEhcvXtQInO4fI/ksX2aercwu4OQAdgqYiAxYZcqBdjqdupCIwSi2L+B1m
KPb2dmp0fHy8rKmeqxWqy7W4DlYVm2z2dDT06Nd1Lm5Ob1t28c//nFNJ+2nDK2trXumd1FJmS7KhlESvTMdVMrVq1fx4osv4uzZs/jBD36w6++H7RcjEf39KLt0
a6V7a7fbcfz48b2+9kh0e2BgAFNTU0ilUnrv1EAggKeeekr/nQH15ubmMt2+ePGi1u1kMonjx48jm81ibm4O09PTeOeddzQ1I+MrRMbZbFan1dHr5BjJ4CYDegB
0d0XGmqqqSnv1EjTRS41Go3rRYJl/Z2cnamtrkUwmtefMDBzuEsZ04Hg8rpv5sV2IzWbD3NwcnnnmGbS0tOCll17Sz7YXbWGz2bRum3WAIlseuN1u7dGbi5uksb
x69SpeeOEFnDlzRvP/e+ndfsKAMdH6/Xqi5usylrKXHGjcDcNYAbCy/XNcKXUXQADA5wC8uH3Y1wG8CuA3tz//Y8MwsgBmlFKTAJ4GcHHPm9g2Gp/4xCd0eXNnZ
ydSqRQWFxfR1NSE119/HVVVVairq8PU1BS6urqQy+UwNjaGnp4eTE9Po6mpSXdLC4VC+OY3v6m3xAN2NtOV/Vdqa2v1ZgQAdKEGKweJbohcJUfPiUKXkbmyoVBI
85cWi0V38WOga3NzE2tra9pbICJiqhbz8rl4KKX0d3k8J05tbS36+/tx8+bNikomFb25uVlzvhwT3qPMN6eSM2+ZCF56OgwCJRIJvP766/jyl7+MlpYWLC0t6fP
KeziEnt0XDy+fWbr3cqEzb0AsrvnIdPvll19GIpFAVVUVOjs7kU6nsbi4iObmZrzxxhtwOBzw+Xw6kyadTmsKcnZ2Vuu2xWJBKpXCt771LUQiEa1/1E8JWmpqan
RKKHWIus1KVpnea25lQV1jYWAymdSJApJLB3b6JbHRHqu8ZSsDzh/utyrfOdsDOBwOrK2tIZlMoqamBgMDAxgZGdkXHJCmmJyc1AH0SsdSt5k1xHumRyFtA1Ba5
N5880188YtfRFtbGxYXF3fNscPQMDIedj9e6V7CxWIvuSfOXSnVBeAcgEsAmrcnBwzDWFFKNW0fFgDwjvja4vZn5nP9KoBfBYCWlhY0NTXhrbfeQn19Pba2tjA3
N4f+/n7EYjFMT09jYGAAy8vLmpKZnJxEY2MjWlpaMD4+jt7eXqytremUxIWFBR1AUmqnex4nAABtvMkzSjeWgR7SD4ZhlG0ATCRAw2gOtMrsAZvNhvX1dc3zra2
tweVywev1ora2VhdYcOMPmZpGVMU2wrIKdW1tDXV1dWhqatI00h7vDUDJyNXX12Ntba0MUQM7e23SSORyOXg8Hh2nYNob0SGlWCzi6tWr+OhHP1qGcKTS3YvhPu
xxZhpGXsd8jsOc82Hqtt/vx8WLF9HQ0ICtrS3Mz8+jt7cX8Xgcs7Oz6O/vx/LyMpaXl9HX14epqSmt24lGqXekW9hSmMhaFszRywSg8+lp5Lloy
5bCZt2mwSdoYYZaMpnE+vq6DuZL3Q6Hw7ohF3WDNA4pHKnbq6urqKurg9/vP9T7c7vdaGho0LotwYXUFemZMj7AMSENK5+d6J0bmJsXD+kpVBJ5L+bvPGw5tHFX
SnkA/CmAf2IYRmyfm6v0h11PbhjGHwD4AwA4ffq0YbOVNuQdHx9Hc3Mzent7MTExgfb2dnR2duoc+FQqhfHxcfT19WFhYQEWiwU9PT24e/zuAoEAbt++jYsXL+r
AjeSIOfHJLbKRE9EPDTz/hUKhMiPItCn+Duz002Zgpqqq Ch6PR2/ykUqldOMupZRWdip1KpXC6uoqcrmcvjdZhcrUOZ/Ph0QigZWVFZ0VQcPQ39+Pixcv6vzfPd
4fbDYbWlpadLWueRLw+qRiyK1y8vO+GZfgd5k587WvfU0jHDlGBwmzN/aSSii90jHy373Iw9TtU6dOGVVVVfD7/ZiYmEBLSwuOHz+OqakpdHR0oKOjo6y+Y2JiA
n19fVhaWkIqlUJ3dzdGR0fR1taGu3fv4vLlyzr7iou59FSoP6fQSP9dVuhy8Y5EImVxIunJEWGSuqE3IPlymRWTSCR20UBsWUuDKIOILNrz+/06g4ztNHitubk5
DAwMoK+vD5cuXTpwlyT2Edrc3Nz1TIxHcHxyuZyOiXHRYzCW/whQkskkXnvtNXzlK1/RWznSPlDX9jPsLAJ8UHTMvcihjLtSqgol5f8vhmH8r9sfrymlWreRTSs
ApiQsAugQX28HUDkasXN+DA4OIhgMYnh4GOPj40gmkxgeHsbY2Bi8Xi8GBwd1nnBLSwtu376tO6ORBpmamoLFUipDp9HlC6aC0XDy7w6HA01NTairq8PKykoZAg
qHw5q64ea0RDqyRJvKQANaLBY11UOlZFZNJBLRFbN0U4mWmMJYX1+vg6NyYrLylBkLCwsLmgtvaWnB9PT0rnE1S2NjI6qrqzVHag52cnJzQrAFqzlzRo5vsVjEt
WvX8PLLL+vdhQ6b977Xvcrf91uwgB065rBZOKZzPBLdZq47K6uHhoYwPj4Oj8eDgYEBXd/R2tqKkZERvVkDi9+mp6dhtVrR0NCgvU/qNhEn9Y9gQ+r22toaQqGQ
9k7D4bAO3DOvnNlcMp+cz0DDTGqHHSBJzVRXV2vdJkInoGEg1+FwoK6uDm1tbbp1N4UZOvQ8FhcXtafY3Nx8YNofAB1wTaVSZd6l3LREgjG32122cQ37RsnqXsM
wcPPmTbz44os4deqUBlfA/mBDGnM5jo9SDpMtowD8LwDuGobx++JPfwHgFwH87vb/fy4+/69Kqd9HKejUB+DyftcIBoP4xje+gaWlJXi9Xpw9exajo6O6bHtiYk
JvyzU7O6spklwuh3Q6DbfbDavVitraWvz0T/80jh8/jj/6oz/C+Pi45sUlQpXpT729vaiursbKyopWCr5Uc3dEWdkqKRkaWABlnfRk6TXpHdlKQDYSY056a2urp
ovMwiZH5OI3NjYQDofh9XrR3d2NmZmZg16nXjzM7YypzNJlZuoYkSKpGU5A2b+DucGf/exn0dTUhJWVlQPvZT+UbZ44lVxaM1KvdMx+LvCj0u0//uM/xvLyMmpq
anD69GmMj49jfHxcI3hup8icfBrYdDoNj8ejM1A+9alPoa+vD3/0R3+EiYkJ/exyq0EafZvNhr6+PlRXV2N1dVUHLilcfOmB0cBxgSBHD6Asq4U9XJRSuqcMP+d
eq+SYJfff0tKC1tZWne1iFuo27yEYDCISicDr9aKzs/NQxt3pdOoNXEzvGcBO/ENSMww2M67ESl6OC5Ma3nzzTXz2s5/Vi645cUDGtjj+lXTzUcphkPuHAPx9AL
eUUte3P/unKCn+N5VSvwxgHsAXAcAwjBGl1DcB3EEpG+Ef7ZdNAJTSjl555RXU1tbq7bg6Ojpw7do1XLt2DZlMRpcyZ7NZzRemUind/4JVn8FgEFtbW2W5zdK4y
xRHdtVjVghLouXu4oVCQecQM3OACwaVn5NGTg72pmE7AHOZN7n448eP65x05rqbRfLiTqcT6XRa86zLy8tobm5GIBDQQdv9RG0HVtfX13dx40R//JnnInpnOTpb
ICSTybLNlW/duoXnn38ep06d0tWy+z3PvfDw0g0mjWNeHCp9dsA1HrpuM12U6Xf5fB4dHR24ceMGbt26pbfHo4GVXDjHlgVAwWBQx2xkZpHMeEmn05o2W1lZ0Xw
5M7rsdjsSiYSmGFlIR9qFhlc2xmMaMOcAU21zuZzm22WSAdOEjx8/jra2NtTX1++53SHnC+9PNi+jbnd0dOiMk/1EKaWBxV6LOscpl8vpmBi7y5JS4iYftbW1Wt
du3ryJD3/4wzh9+vSuZ+a1AejCsA/CmJvlMNkyb6Iy1wgAL+/xnd8B8DuHvQlSDbW1tfj4xz+O1tZW3LhxQ3Nj3d3dumc0d2SnEe7s7EQuV9pw99y5c3jiiSdQL
Bbx7W9/W59fVuQBO27a1taW5tU9Hg8aGxtRU1OjO08SlTLtkWmO5hRJIndZvi37wkuen+XVbW1taGlp0ROhkpgVpFgswuVyIRqN6r/Pzs7izJkz8Pl8qKurQzAY
PJCeYABLBpyZjiczBtg3x+v16lavfM5QKISampqyGEUkEsHbb7+Nz3/+83p/070Q+L0Ydv7Pcdpr4t7rHpUup3NZtHe3o6XX34ZbW1tuHnzJjKZDGpra3XmTC6
X09WfRJSBQEAHKs+dO4ezZ8+iWCziL//yL8sWMQIVYCe/nZ4tg6uNjY3wer06N53xKHZm9Hq9u0rxCRZk10Zy7dRtGjLGm2TlqHkTbgq9PoqsrZDZPbOzs3ovZf
aaOUh8Pp+mZvYS0j8EikzvJHja3NxEbW1tWWFXPB7H22+/jc997nNob2/Xe/dK/ZcxDLn4flByJCpU2cyIO9D09/ejp6cHNTU1aGtrg9vtRjAYRCAQwMTEBN588
01EIhG4XC4sLy/ryrvp6WldUceyaMkrsyoP2EGpREYNDQ3I5XKYnp7WbqcMsJJzZhohlZvFUDSELNun0tOou1wuXTnq8/n23bhZKoTZ8NOtpTFeWlrSO9p0dHRg
c3Nz3wCPYZQqGBsbG3XgU16T90xUn81mdXsFjhWLRYjqeD/5fB7Xr1/Hc889h8HBQayurmrUZ36u/cS8AOzHx1MeVQbCvQp1u6+vD16vF8ePH0dXVxe8Xi8CgYD
W7dbWVkxOTuLtt99GNBqF0+nE2tqabn8xNTWlN8uQm6RU0m3z9evr6/X2ejI4SsBDHpo6LT1Spr9ysWCaLK9Lg9jc3IzW1la9h8FeIt+RbDkNQFdi87xLS0s63h
MIBA5l3O12u95icT8vlhlEDBArpbR3xMWHiw69luvXr+PZZ59FX1+fzsqRwdJ78BgfiRwJ466UwsrKCjY2NjAzM4NIJIIzZ87gmWeewY9//GPdZCkcDuu8WqBko
J966incuXMHHo8HTz75pE4rk302gJ02vbKIiZHxTCaDpaUljcY5oaRxB6A7yjH4Qw5PbjAM7BRMMHe5vb0dTU1NuqPefuNgzj83i+TdHQ4HotEoNjc3UVNTg2PH
jul890ouI7Bj4FlRSu5furyS+gCgPahUKoVgMIhCoaD7iBDp836j0SjefPNNfP7zny/Le78Xw15pouzlAZh/P4pGfnl5GcFgELOzs4jFYjh58mSZbg8MDCASiei
mdEDpOZ544gncvXsXXq8X58+fR29vr6b45JaMALTBpSEiPZDL5bRuK6XKeiVJ4EKeWu7YxcIqaSRJS0oPtLGxsWxeVhJJVxAQUPgcpPvS6TTsdjtisZjW7a6uLt
y+fftAr1Sp0v65a2trelyYWSSzw2SiRU1NDZLJJDY2NnQKNI+TrZDj8TguXryIz3zmM2hubsbKysquhl9HSfeOhHHf2tqCz+fTbVGvXLmCmZkZnDp1Sm9unEgkM
D09rbcNKxaLaG5uxsDAAAYGBjA2NoaVlRVsbW1hdXW1LKjJCS8nhFQ0GibZT4bKLftEE93QrSNXRyGadbvdaGlp0SmMe/VyAfZWhr2oGslNkiNcXFxER0eHXkCY
mma+jkTCNTU1cLvdmuKRWTPSqwF2Ouo5HI6ybQJl1gx7lmxtbeHmzZv40Ic+hBMnTujag8OKHE8uMDKXWBrxSuNn/n2/Io9HIdTt0dFRdHd348qVK5iamtIbYgM
l3SaoWV1dBVDaHLmSbrP4TWZ/ASiLBfEfA4f8u9z2DoDWbdkkjsBBLtg8n9Va2ju1qalJpzAeRrflXNqPjyYgIgVrt9uxtLSEjo4O+P1+TSUeJGzdwXRPZsHwfZ
jjb1K3zVtsysU2l8vh5s2beOaZZzAwMID19fUyGusoGXbgiBj3bDaLhoYGAMCpU6ewvLyMuro62Gw2nD9/XhucixcvIhqN6g6PyWQSr7zyCp566l85CMf0S6kD
Baa89zlz7LgSJZlM8BE5WYAiWmLTPsiNcJJ0tDQgEAggKamJt2f47ByWCNE95F5/A6HA/Pz83j66afBfGr2ct8PUdhsNjQ0NOiiKRmkpNLz2YLBoE4J5SbUTCfj
+MrxjsViZQiH6P2g55K8pfl+90Js+yH1D9qwAzu6rZTShTANDQ2wWCx4+umntR5Sty9fvqz7Fb366qt48skn8ZGPfERXoXKXKWB3B0K+cyJNvj8aVanbslJTKaX
pRqfTqXWbCN5ut8Pn8yEQCMDv9+teLAcJ55QEWMDeRpC0H1Mt7XZ7mW43NDQcro+5zYb6+nqdKCFpJFmoZLFYsL6+DqvVqvPySS8y5Zd2gM8Qi8Vw6dIlfPrTn4
bf79eL8VH0GI+EcXc6nXjxxRcxOTkJoFRJ+f3vfx8f//jHYbVa8cQTT8AwDHzoQx/CD37wA8TjcXwpTcVgsFvT396OtrQ1vvPEGfvSjH6GtrQ3xtcxOGZjFTI/f6nUq/c6KSI6yqqsLc3By6u
7tRW1uLmpoa3SFvv2uw4pF7bhIN8pklWma8wev1agMjW6bKil2JcJ566inNT9IAMDbBSlm+i/sVGSg7asK9Rol+/9N/+k9YWlrChz/8YVy+fBmGYSCZTGJoaEhv
Bj8yMoJgMIjXXntNd2SUui29UHZXlJ4RjT4XXRbSkUpju16ew263o7a2Fi0tLWhubtZFgQeJ5PclDfl+DB3vV274Pj8/j56eHtTV1WndPkis1lKHVQI9SbMyw4c
xNwI5t9ut91ZmkJkevAwCFwoF3L59G08//TQGBgYQDAZ3JVM4nc4HotvvR46EH1soFPSK3dTUhC9/+ctwOp3o6uqCz+fTblE2m8UzzzyD3/iN38AnP/lJTE9P49
atW8hms5oS2dzcxObmZsVWA6FQCKlUClVVVbpToFJK0y2hUEhvIUYD53a70dnZiQsXLuDZZ5/FwMCALm44SMwo/aDvmIOelZAshe4rc5nn5+e1EgUCgbLr73UNo
NSOgO6zeSEiyuM/9t+QVYayapeoHSgpdCwWw3vvvadbRjDLorW1FW1tbTh79ix6e3t1D3rzJhPme64ULD3s2H5Qwl7l1O0vfOELcLlc6OjoQE1NjX5/+Xwezzzz
DH79138dn/jEJ7Rus/7DYrFgc3NTtxCQus12F6xC9Xg8eqzoaYZCId3REdgpNjp27BieeuopXLhwAX19fYemFrlAM0B7kL4eVhjTAlCm29Qx6vZhpL6+viwrCNj
x4rmdpCxAtFgsZXUn5N6ZKADs7FYWjUbx7rvv6u0uOSZMCT19+jSOHz+uW4js15r3YcmRQO75fB4jIyPo7OzE66+/DgC4oOEC8vk8Zmdndd7qiRMncOPGDZw6dQ
pf/vKX0djYiHfffRff+c53YBgGmpub0dzcrIN+0g2joQZKBol9MZjKKI0YFeHEiRM6z/4whpnXrES93IthP4yQd+f31tbWEI/HNTd5586diiXSlc4jNy8wd3zkZ
ODPTB1jn25zvxlJ6RQKBdy4cUMjnEQigbGxMVy9ehVOp1AhQ8TqIpMKWSQ1Jx59iB5Z6YM89/6+nqZbo+MjByYEsnzyC0jK2XqEFCwKtbj8Wgmwbw3K9E
70f7t27dx4cIF9Pf3I5FIYHx8HNevX4fdbsfp06dx9aAMr2JyBipX6eOHFCo/TDUIpMKWSQ1Jx59iB5Z6YM89/6+nqZbo+MjByYEsnzyC0jK2XqEFCwKtbj8Wgmwbw3K9E
70f7t27dx4cIF9Pf3I5FIYHx8HNevX4fdbsfp06fh9/vR2NioixfNuv2w5UgYd8MoNdAKhUJ499134fP50NTUpBuCLS0t4eTJk7h48Sky2SzeffddDAwM6OPIP8

bjcSwsLGienAhEZoLwWJmaRaNOpFpfX49z587phkr7iVQWKvlhUb0MXh5GWeV3iQbpZaTTaaysrKCurg4tLS1wOBx6ATtIGhoaEA6HyzIt+DwUpn+yspLdItlzh
1sKygWhUCggEongypUrGB4exvXr1zEyMqIbVL333ntwOp146qmncPr0aT1JuOuQWWQNwE+KMEOFul1bW4vm5mbdr395eRmnT5/WWTJXrlxBf38/ampq0NzcjGAw
CABIJpN477339HZ2NLLmdySzQWiASb1YLBbU1dXh9OnTqKmpOfDeJU8ti5b28qIelDA2QAqVnVPr6+vR3Nys0xYPEovFgoaGBr3Z916eLNN4yQBQt/eiZkgXRaN
RvPfeexp0Ure3trZw7do1OJ1OnD9/HqdPn0ZfX5/exP5ByUFz+0j4shaLBd3d3airq8NXv/pV/MZv/AY+9KEPwWq1oqWlBfl8Hg0NDairq9O9rHO5HNra2nQnQr
qpzA7gy6Aiyp1oJDKga+l0OvUuMQftcEK534yNStzkYYywzIhgRg9zmYvFom6u5HA4dGrpYaSurq4svc3scch/HEdu96aU0giHiF0uVOTeX3nlFbz33nuIx+N6z
81oNIqNjQ2srq7qd9De3l5Gt8h72Ov3/cbrg0b+Sil0d3ejoaEBX/nKV/BP/sk/wXPPPae7HebzedTV1aGurk63+c3lcggEAnjppZdw5syZMp6Y9ARBBN8JDTpT
G6kr3OfX6XRqKuIwWSwyfiIpzv3y1B+UMKbEmI5hlLaVpLdyL7pt3kcY2J1WS2DHLCTuOKWU0s3yJOXIc9Az/fGPf4xr167pjrFSt1ll7HA40NHRgQclBKb7yZE
w7gDQ3d0Nl8uFnp4edHZ2orW1FXfu3IFhGOjo6MDw8DA++9nP4lOf+hSy2Sz8fj82NzfR3d2Nj33sY7p/OnlIaUAZSJL9YKiwVH6zYa80cNJV5ODKf/uJmZO8F4
5SXkNOXHabJK20sLCgA1GdnZ2HTstk5z7JX+9nUDOZjN7flW6qNPBEj/wXCoVw8+ZNXf0od8ABSouL1WpFKBQqG5PDGnGzyEVQpr99EELj7nA40NPTg0AggObmZ
k2bdXZ24sSJE/jMZz6Dj3/848hkMmhoaCjTbfZPl2hWVgbLXY3Mht3tdmujTt2uNB7UaQIkvqu92ho87DEj786CvPn5eU0BdnZ2HvqeGCw2Z8mZhUkTyWRSd+Lk
eBM8kb6hjhuGgXA4jNu3b2ubYdZttmOgZ/x+Fka+V8YKuNjuJUeClmGK4dbWFmZnZ7GwsACPx4OpqSm0tLSgq6sL1dXV8Hq9ePnll2EYhuaYM5kMAoGArkplZaq
5vFruAwrs8PGs2pMVfuzOeJDreVgK5l4nh5m/30shyJeyF04wGEQ0GtUBu3fffXfPtDFz2lxjY6Pux82/y6IiGhe6r263W2/uTQMjN/KQQSzmUiul9JZtVmtp30
+/34/BwUEMDQ3pasmOjg6Mj49rPrlQKGiKTBZamcdL/n6vVNfDEmasFAoFTE1NYX5+Hm63G1NTU2hubkZXV5fe3OVjH/sYisUiNjY2kEwmkclk0NbWpnfxYnUw3
42sEDZX8lK3aaCl8QbKvRougGxAJvPCPyjPh/ExounNzU3dT6qjowNXrlw5kJ7jM9fX1yMajWo9BCq3lKZOer1evbk3PWNZNwOg7FwULiIWiwXpdBqNjY0YGBjA
iRMndCfKrq4ujI6OIpVKaVq1pqZGx7XM853vhXSybHdw0Ls5Esa9vr4eH/3oR5HJZNDV1YU///M/R3NzMzKZjM4AiEQiGBsbg1JKZ72Mjo7i+vXruk86jRxQzrP
TeMsm+zQQXAFplPiSJV+/l+z3t8O+gErfk/e+3/edTieqqqr0fq2MT/j9fvh8Pp3OKV1KadTluemKsgoXQFnlKvl0co7sN8PzE61wYZSTh89itZZaMzudTtTW1q
Kurg4/93M/h/7+fihVqrzNZrOIx+NIpVJwuVy4cuUKrl+/jq6uLkSjUSildItkSRPsxad+0FJfX48XX3yxTLdPnTqlqamqqiqEw2GMjo4CgN7kfXJyEjdu3Nil2
7J+g/rL9wZAI3v5N6JW/kyagEKdoM7zXX2QQu+BBjabzWJ1dRVNTU2ora2F1+utmO4rF3X+T92WWUasyJXgh15oLpfTO59R31nEKEV6h/SknU4nuru74fP58PnP
fx79/f0ASh0vs9ksEokE2tvb4Xa7cfXqVVy9ehXd3d26eK2lpUVnsPF+5XXvpRL2SBh38oBbW1tYXl7WKVt0cerq6jAwMICFhQVEIhHY7XYEg0E4nU6Ew2HMz88
DQFkKGLDjanm9Xpw4cUJvCSY7v0mDTiVn5sG9IO575c95nLk4x4yo9xM5eVmuzRbASpU2DY7H49oo7GcIHQ6HLuKohI7lvVkspVYMNTU1uhUCM2c4WbigcGwNw0
BPTw+efPJJnDhxAqdOndIUQSgUwvLyMlpbW9HQ0IDq6mpcvHgRxWIRm5ubsNlsuH79OlZWVsqCaT6fTyO8SqjnKAh1O5fL6V3D5H6mPp8PfX19WFxcRCQS0UVPD
ocD4XAYi4uLKBaLqK6uLqMCqbcejwcnTpxAMplEPB7XHTvNtBQNPPO7+U9WJR8lkbQDg5rsN2WxWNDc3IxIJAJgd9qs2eBzz1f2zOHCR5F0rc1mQzKZRGNjY1lH
THPmDFBC7/SEuru7cf78eV2vwHkZCoX0xjWs8L506ZLW7aqqKty8eVPr9vDwMCyWUptmUs1St+/lPR0Jzj2ZTOKtt97CD3/4Q/ze7/0erFYrbt++rXf/8fl8iEa
jGBwcxPDwMCYnJ3H16lVMTEygpqZGdyyMRCJljYGUUvrFsDfFsWPHcOrUKTzzzDPo7OzULVn5wmkwDxpEOdjmfwdJJV75XvllybtbrVbd0GxxcVH33jl27Ji+zl
5ZDvJ8jY2NuxCbNPTSuDOIx42YlVJlPTmk4QBKLuvLL7+MCxcuoFgs4saNG5iZmUEqldKVghMTE1hYWEB7eztaWlrw2muvYWxsDEtLS+js7MTnPvc5eL1eXL58G
X/2Z3+Gt956C7FYDFarVSMfNpU7KpJMJnHx4kX86Ec/wu///u/DYrFgZGREB+p8Ph9isRiGhoZw8uRJTE5O4vr163p7SbfbjUQioYuh5JjKnu319fXo6enB8PAw
Lly4gGPHjukUXnNGDVAOJo6aYQd2+syQdrRarVq3Sd3J1E4+Q6V3bxiGRsPSoyYNJec7dZv1BTT4XJBlHQfpsJqaGrz00ktat2/duoXZ2VmkUinU1dXBMAxMT09
jfn4egUAALS0teP311zExMYGVlRV0dHTgs5/9LLxeLy5duoRvf/vbeh9oi6W0H26xWNTbah5WjgRyB4BvfOMbuHv3LtLpNC5cuKDTvtLpNCYmJrC0tIS6ujosLi
5iYmICTU1NGB0dxZ07d9DV1YW6ujrMzc1p1EOqIJ1Oa/eL7igzFZqbm/W2ePwn91DcSx5EYGS/3+9FOAFoUKPRKEKhEJxOJ1paWjRqPMw1ampqdOl3pbRDieZJA
7lcLl22TpeWATwaofr6ehw/fhyZTAabm5t47rnncOXKFVy9ehVra2s4e/as5jinp6fR19enC0Xy+bxu1MYuoJFIBEopnDx5EiMjI/jYxz6G/v5+OJ1OuFyust43
wP57XT5sUUrhT/7kT3Dnzh1kMhmcP38e165d0xw6J7jP58P8/Dympqbg9/sRCoUwOjqKjo4O1NXVYX5+XtM45GoZSGehFIGK1O10Oo1MJqOLzY4iSq8kNO4Wy87
WgbFYTLf9bm1t1eNwmGdikJQgSPad4iJB6otgieNZLBb15h5E8/QQamtr0dXVha2tLa3b7733Hq5du4b19XWcPn0aDocDW1tbmJmZQW9vry46KxQKcLlcCIfDaG
5uRn9/v66+HR4exp07d/DSSy+hv78fDocDHo+nLHPnIL0+Esjd7XZjenoamUwG1dXVeOKJJ7RBymazmJycRCQSwfz8PNbX17XbMjw8DL/fjxMnTqCurg6BQEPBb
ko+n8fS0hKWlpYQjUYRjUZ1S1E2UqqpqYHf79cdHZlxI+Ve0blZzOj3/Z5Ljh35SRo07oBUXV0Nn8936Guw+x8XC2DvNESLxaL3YeWWgUopjXCYE+x2uxEIBPRi
sLm5ienpaTQ0NGhX+8qVKxoBORwOzM7OamOVzWYRjUaRTCYxPT2NK1eu6AyKxcVFdHV14e7du8hkMkgkErqIAZunVaKXHqW43W5MTEwgnU6juroa586d00aEG1+
TfqFu+3w+DA0Nob6+HoODg7rtBTdLp3EpFotYXFzE8vIyotEowuEwUqmUrm/g+/f7/bptrrli8yiLzGAj7728vIxCoaCfba8AKYW0lN1u19W3pFckFavUTqMzIn
UAGr1zkZFppx6PB21tbSgWi0in0wiHw5iamtKb8czOzuLq1aswDANerxdOpxNzc3NwOp2agw+Hw0in05iZmcHVq1f1pxvWLi4s4duwYxsbGtG5XVVUhlUodqnkac
ESQO1MVSY185zvfKdupnYNpsVjQ2tqKM2fOYGVlBV6vFy6XC2NjY5ieni7r98KMAaVKBT4cNKIcGhJzQJUpWMzEkWj/foKj0oDfD2o66PiqqiqdEkmDPDs7i/Pn
zyOfzyMQCOxZOEH0Ie+xoaEBGxsbe2bZ8FgGWLlFGwtF6NJyUnZ1dWkkxHdw+/ZtNDQ04OTJkxgbG8Pi4iJWVlbQ3t4Ol8uFxcVFTE5O6v4o3AGrqqoKm5ub2kM
ZGxtDLpdDe3s7otGobhbV3d2t37UMQH4QQmNAHfve976Hzc1NADvtZ/m39vZ2NDY2IhgMoq6uDh6PBxMTE5iZmdH8q8xkYfEfN5EJhUJ6M222imA7a+bJA9Bts/
n3g5qDfVAiq8qB0rPPzMzg3LlzyOfzaGtr05vHmIV7LkvKpb6+Xm+hSaFtYfdHKdRtBm7ZUIzjSN0uFAq6FfHdu3dRX1+vdXtpaQlra2toa2uDw+HQTeD43vn+r
FYrNjY2YLVay3Q7EAggFovp/V67urr0vR04fvc23A9HSCPQuJNb4u/sfw2UkBB3QQGAcDis+cuNjQ14PB5teMjXcSWWfTaI3Ll4MB1T7lLD89L9lf0oqDDy7+yQ
CFTmMg/Lx9+r2O12rVw2mw3Ly8s6wBoIBHDz5s1dE0AuPBL1EGGwhJ0i6RiZQZPJZHRgU1asMnOGrjB70wA7Gyak02m4XC7Mz8/D6/ViV2NDbzbidDp1IJATS6a
j5fN5TE9Pw2634/r16/D5fHj22Wfh8XhQXV2NTCaD1tZWTdF8UBIKhcp27mKfFKYlNjQ0aH1yuVxoaWlBMBiEUkoHX+nym4OhbBeRz+e1DnA+MB7idru1XtOI8R
1xT2JZxEdDT/2nbnOOPEphTrfsbLm8vKw38mhra8Pt27fL5jtBHcdb1rz4fD44nU4kEgl9DRlj4tyl8aduu1wuvW2nuTW4tC/8Lo29x+PB8vIy3G431tfX4Xa7E
Y/HtT7Q2yZ3z5RZABrh37x5E16vF88++6yuns3lcvD7/Qfq9ZEw7slkUiuuw+HQlV52ux19fX346Ec/ihs3bgAAlpaWsLy8rJEMA65nzpzB2NiYNj5EsbITYbFY
1A3JuIs8G/oDJTeQW52xSo7on9332Ouaf5ufn0coFEI+n9eosa6u7r7G4V4NOxcQt9tdtrEwtyfj3rDcwUZyhfJa8mdSM4w/8PklTUO0Q6TOXF2+N8lPzszMoLO
zs8yTosEAgNbWVp0Zks1mMT8/r4OkTqcT0Wi0LPda1inYbDasrKygu7sbLS0tOs3MarViZWUFo6OjaGlpOVKBqiYclqVRKe4M0VDQO3d3dePHFFzEyMgKgtB3f6u
qqbg2wtbWFuro61NfX66InBvxoCKRBcjqdOHbsGAqFAtbX13X/H16bHp45FZKGPhaLaUNvs9kwNzenG+m5XC50dXXpjUceBdIntSSDn2wBzL1hWaUt03XNNCLPx
YKmdDpd1uVReq9yPBm3q62t1WmRpBftdjtmZm0RTV5e2anKaV0CmYoFILH48HCwgli8bimifL5PBwOh+7rxPsk2FpeXkZPTw9aWlqQTCbR2dkJpUo97u/evYuW
lpZ9EfyBxl0p5QTwOgDH9vHfMgzjnyul6gF8A0AXgFkAXzIMI7z9nd8G8MsACgB+3TCM7+13DZmXevLkSUxNTSEYDCKXyyGXy+mNDoDSQuD1evXvVHAuDKlUSr8
E0gccMJnPS86Tk4LIJ51Ow+PxaLTI4+neEtHI7ctoXFdXV7G0tKTzuHt7e9HY2PjAELs0rPJ7XGgymYxGcvPz82hvb9eeTyqVKssU2E8aGxuxsbFRVqghqSVzzj
sLP9j6l9QMvRqZQUO+lxuu2O12DA8P43vf+55OF7TZbGXvEdjpbSOfm/2Ebt68iYmJCQwODmpe+fz582hpaYHNZtObwFQY80eq20NDQ5ientb9YhhApkjdZoCPO
c5VVVVIp9Nl797sTZE3tlqtuh86dZtFUW63W78jfo/6w7Q/elhSt1dWVrC8vKx1u6enB36//4EbeQk+GBNj7I2JEYuLi+js7ERVVRXq6+u1Fw/szO29zt3Y2Kjb
T8u8fnkMx5K6zdoM7tS0tbWFra2tsuZ5vHaxWOqGSrp3aGgIf/3Xf633nLBarbo4j0Vo5vbalHg8jhs3bmjdbmhoQFVVFc6dO6djgz/4wQ/2HMvDRJqyAF4yDOM
MgLMAPqWUegbAbwH4kWEYfQB+tP07lFJDAL4CYBjApwD8O6XUvhURdL+qqqrw/PPPl7mBm5ubO8i8dgE5r5GBI15TGWBYkkUKgWK1WHamWjfyBUrYIkX5dXZ1GvS
ymisfjZcaqWCxtclBXV4djx46hs7MTTqcT6+vruHLlCr71rW/pFgrvV2Rw0Gyk6eaRgwWAmZkZzREetk0qEQeVmRNeXl9el7QZFzrZLpYLIDc/kNF9jjFpBI/HA
7/fr99LKpWCw+HQiJdjzckjPQ/SLolEAu+99x6+8Y1v4OLFi3jzzTfx9ttv4+7duxOZV5CHrtsEHXa7XfeUYXvjcDisYwh8dGQ+CC64gHJxZJm7eYHnuwiHw2W6
TcPh8/n0+Xw+H+rr6+FyuZDP55FKpZBIJDDtTX1+PYsWPo6urSun316lX82Z/92QPTbbMnINErCxAB6CSLSrp92AQF6rbZLphF8vAM9ku6Sv6Teej0UNP
pNCKRiM7siUajWrftdrv2SIDyzYQqSSqVwrVr1/Ctb30Lly9fxttvv41Lly5hdHR03zQqByJ3ozQCJKmqtv8ZAD4H4MXtz78O4FUAv7n9vAXlHJRJn7RHd2e0x3PfteYi48qoS+LZbSP
q9Me3M6nbodg8PhQGtrq3bj98sqoFRVVaGurk7vxSrd10oVq3RVuasTjRGvz1Q2vhPDMJBKpXQ/84mJCVy4cAH/6l/9KxSLRdTW1qKpqUnTW5w05kkg6TceE41G
NZLnvrZtbW0Vn/lR6DbvsaqqCt///vd10OzkyZNlhosUF2kBvitpYPic0ihI/SYokSl9zPIg6uQiQqrAZrPB5/Np3aGHR+qARs7n88Hn86G/vx/RaBSrq6sYGxv
Tuv1+ROqkWT9JzTCd0263Y3V1Fel0GlVVVXp3psPWNthsNtTV1e2iZqRw3PgO2G5DoneZFmlOTaQBp24/9dRT+P73v68XiamJp2VdtjFkd7urVu3ynTbvKF32b
Me5sTb6OQ9AL0A/t+GYVxSSjUbhrGyfeEVpVTT9uEBAO+Iry9uf2Y+568C+FUA2kWx2WxYWlrSqMPr9Za17pXGHCjvjEfjzkGmSyuRiOTUpDLwRdKDAEqBW04KV
oDSG6iurtbtQPl3WVFntZY23PV6vXqrMMMw9C7re6XmSTe7ksu4n0g0opRCPB7H6uoqvF6vXnTIy1e6pvk63D6Mzw2gDMnzu7weg6PsN0NqhvnVTqdTj7ndbkci
kUAsFoPX69XxgbmSOYRCIdTW1qKtrU2jIt6fpHXkPZhzfonkye/LAJpZHoVu0gvLCwgm81q74g517xnGlX5O1NOacS5CMjmbBwHs27z3ZirVBn8Jo1HysMwDI3
mqds08vSWmYbMZmbMkjpIt81SqY6ikjCll1tBWq1WJBIJrK2twePx6ErOWCx2qOsCpYyw1dXVAwOSjG8wRdvtdiOTyWj7IhMHyJ/TVsRiMXg8Hq3bjM35fD7d6f
ZehVRkKpXS/0ihVZJDGXfDMAoAziqlfAD+TCl1cr97qHSKCuf8AwB/AAAOh8PIZrNwuVy6Twoj/HwoYDclwywMADr7RU50urZSyaPRKDY3N9Hc3KyPMyNCZjG0t
rYiFovpfVs3Nzd1Hj0DumxoVFtbW5Y7Lw19LpfD5uYmwuGwzt9mVofZqJqR+mFEbWda8Gci57m5OfT09AAAmpqa9ASQVMteQqQiN3yQ15M/y34z3IZPFhJls1nU
1taW5QgziyYWiyGXy+HixYu6n1AqlcLt27fLWjZL421+X9ItNsvW1pbmuCvJw9Ztu91ucD9O6jZL0+VzmHWbWRgAyroSyrGQxt1qtSIejyMcDuudgSohQ4vFgsb
GRq3bKysrWre5+TljTuxzw3xyJiRwkbBYLLt0m+moBBtlgyf49IOMuqw+ZRtjgrBisYjZ2Vmt29zc+jDCxY1Fc+bkAnkcPXoac4/Hg2g0qlsRMD5RU1NT5mlxwS
wWSy2KL126hKamJq3bd+/e3fP5zfdjBjO8NwA6734vuadsGcMwIkqpV1HiG9eUUq3byKYVwPr2YYsAZOPidgDluyPvPq9GCEQRLCSS6V+5XK6sHS8zagBUXMEkk
ifCZ9COL0R2MeS9SG67qqoKXq8XgUAAfr8fKysryOVyGrFUVVVhdHQUW1tbulgknU5rfpCGjPfDvNZQKKQNfU1NTZmh38uwS1rHfKxstEREODc3p5Wwra0Nk5OT
h140rFarDsTKfjFmMadF8lm46zwrMTlRZKAb2EmL5MLZ29uLmpoahEIhjdCYHy+NgzRckrYxj9Vh5WHpNseSbrrUB/nOiaL5u9Rt6XpXMuwcy2w2i5WVFXg8nl0
eD7/La/AduN1uvdH76uoqcrmcRslsZzEzM4PGxka0t7drT5XX5fmkboFDYR2MdbvdutJT0nKVxoj3SA/bTBXKZmvz8/Paew4EAmVJF4d5H/X19UgmkxWzZii0AX
w2pk3LZnmsFyCQ5JyXBU/U7Z6eHvh8Pq3b6+vru1KOzUL6Wd4n73E/mhU4REBVKeXfRjVQSlUD+BiAUQB/AeAXtw/7RQB/vv3zXwD4ilLKoZTqBtAH4PJ+1yBKl
5sRcENfOQFYyCKNPX+XKUF8YBoTijT24vn03/hdMzIlAq+trUV1dTUCgQC6u7s1Ajt37hza29t17jZ7S7AQKpFI6B1apIKzYnN2dhaTk5NYWlratdlxhfdREd0z
dZCegsVi0W2RufDI/S4rnVcuGEopvdEBlWqvCluJ4gyjVDsg+83Ikm+ZNSMXaSKd+vp6XcHX0tKCQCCguU35Pvke5WIsOx4yiMly/T3G8pHoNtMLpW6z0Isii2M

AaCPGAJ4ULqjUZ0lxSGRciU+u5ClarVad7UTdZsfRs2fPor29XRvSkZERzM7OIpFIaNqSXSvlwsPdp7g4LC8vIx6PV0TKzJriu6POUbdoG1jQplQpHTAWiyGfz5
fp9mGEus2alr1AFa9N+1IsFsuKqqi3BKPATq68zKxj0LOhoUF7N83NzVq3AZQBFfk7z0k2wOFwlPXn38/7PgxybwXw9W1u0gLgm4ZhfEcpdRHAN5VSvwxgHsAXt
29qRCn1TQB3AOQB/KNt13dPsVqtaG1t1ROYiHpra6tsV/VsNovGxkb9Pea4022iosuAHwdHUjzsx0KunsjUjHbML53fIeJOJpNYXV3FzMwMampqdHpWe3s7lpeX
kUgk0NfXBwAaubE0XG7OSyWIRCKIRCIa9bDr4mEqCOm+RqPRssDO2toa6urqUF1djdraWmxsbFRcwCr9TE4zGo3u6k/D8THHQJhuxzxepoqZUxkZZAWgc+pZNSy
526qqKng8Ht3xkDyjbOK012LMBc/v95cFy4U8Et1ubm7WNBV1k3GI7fPqgDSFjavYr4fvjLEhqduME1ksFk3PcYwpe3ldcrEmpVBTU1Om2z6fDx0dHXA4HLt02z
AM/a5ZKSvbDFO3qd98n0TBsoLUDFjkO3W73YjFYhodp9NprK+v79Ltw4rL5YLP50MkEtm39xLHhCCFvZQk907GgffKFGLaF8MwytqE0PBznsdiMd3GnGmWkpLk+
yOoo24TAO8lh8mWuQngXIXPNwG8vMd3fgfA7xx0bopSSgdFZGYLm31tn1MjdQoHVmYMADsByUKhgHg8jmAwCK/XC7/fr3uVkIutrq5GU1OTLr7ZD92aP+/q6kIo
FMLGxgYWFxfhdrtx5swZeDwe9Pf3lwVZmFEQi8UQj8c1XUHEKfcg3dra0oZeUjecDHuJuVVxoVDA/Pw8BgcHUSgU0Nraio2NjYrPJg2GRAMsTjKPgUTf8ntsJiZ
brNJ1lY2eqPgULugSkfA9VldXo76+XscN5BgyzkHPwUzNuFwufO1rX8M/+2f/bNczPwrdBqArE2VeMyk9isxpl7ou40gygC11m6mkmUxGd0Zl1TcbiFXaXGI/6e
rqQiQSQTAYxNLSEjweD06dOgW3262bX3ERZiYYewARqZKC4uJTLJY2vgiFQpq6oaHnzl6VkD3fI5E0x7GSbh9WLBaLLk6icd+L4uC4pdNpOJ1Ords07jT+EmzIp
nVsDSwLxPi+uTD5/X5dJCntA4ULvLwnVh/vJUeiQhWAzjBhcEemGxIhMhjF35k6JnPc5QTg6lhdXa0r2UgLWK2lxj9smSt5YKByyiHPn81m4XA4cP36dc1B0oAp
VcrDZbGHUkpXXjqdTtTX1yOTyaCxsVFvSkG3lgog74MZJ+z17XK5UFtbq9Ex71EppXt+k57J5/MYGRnRE7KxsRHHjx/XCFgWsvDZzOLz+bC6ulqW5y7HSNIizK/
OZrO6JwdjALwvmflBBMP7oMtJfeA9MbDL9+b1ejVNIIOURIgsOKupqUF/fz+efvrp96Wb71d4z/l8Xo8JPwd2+s9I7pfAhp4sUK6LZt3mONJrcblcZS1/zRw2sP
t9c4GsqqrCjRs3dByA708phdnZWTidTp3Kt7W1hYWFBa3b3AKTNSHJZFKfU3qgXMBo6NlHpra2Vht6+cw0igRBhUIBIyMjOk4jdTuZTB7Ye0UphdraWqytreln2
wsFS/qQgVUuoqRAmQzChZQLM1MuuYctsJMdyOcircO+801NTZrOIUCkt0rdJoB87bXX9nzGI2PcgdKAU2lo1BKJhE7PksUbRDQyMg1Ar2Rm15WpeAzS8nMaLfK3
UuElAk4mk4hEIojH41hYWIDVakUwGNR7j8oMGebRUxk42ZLJJDY2NjTCbW1thdVqxdTUlPYciD7tdrt+kby/ra0tjVxZDMPJQI6UWQA0nqFQCD/60Y/wyiuvwOP
xoL29Hd3d3boBESCxJaQUpsYxdW4/95WGl9QMe3LwvJI/JYW2tbWlvY1CoaDzronimXnEySJpBMZjgJ0tz2gMuSD80i/9Es6ePVvGk35QYrVaUVdXp8EBC+Oolx
w/oDzHnZOaY0f0JouUuJm0xVKqd5DUiOTngd0UFttqEDUuLy/reA2zZMy6TY+JeedsGcKeOAzgA6UmdpwLpC7oxcm5TG81Go1qQ890Yi4MTBgASnMzFArhlVdew
auvvqo7NHZ1daGrqwuGYehMNhbS8Zk516urq3X8Q+5AZhaOPQCdNOB2uxEOh7UN4mLLhTqZTGr6F4BeaKVNYuCV4AWArvKmrWIlrYyfULdPnz6Nd999d0+dO1LG
Hdhxl4hW3333Xb19FVAyRpJ+4GSptOpKhZYZMeYugfQE5HdYOs/+6My/93q9uhdEPB6Hx+PRBpiFT0TNcsFwuVx6I+hgMIhUKoWRkRGNaI8dO4bq6mqEQiFEIhH
NLSulyjY25jMQNXAykEOUk5kIh9+jIb916xYcDgf8fj96enrQ19eH2tpazdFzQnAsvF5vWc8MoHLgmZJOp+H1enWPmubm5rJYCA1xNpvVhVKyF7vMiJHKzUUPgA
7SclKx7F4phba2NgwPD+PMmTM6GHsUhEF59nF59913dX44AF3RKDOKyO0CuzNf+Bk5fGloeCx1AECZjkejUd0ffWFhQadA8r2n02m9J2gul9MeZqU2EBLJb25uI
pFIYGVlRQOQY8eOwel0at1mNhkAHSzlom029Jw7svqZCxl1IJfLIRwOIxwOY2RkBA6HA42Njeju7ta6TWAVi8X0M3I+EyxxbCtlh/FvzHmvra3VewDzb2bdZsET
+/qY6WMpsoNlNpvVz8qgLxeX9vZ2vZMZwc1ecuSMu1LlzXuIXNiwi/QEJ/Py8jKSyWRZFgqRnjldjLRBJYUHoF3hTCaDa9euaTdIKaWNG1GgXOmZ/sdG+5wAfCE
09pJTZtOf9fV1bG1tYXJyEg6HA83NzTh+/DgmJib0yk4vhopCrpOTOJ/Pa46e12F1KI080R+wE8BbWFjAwsIC3nzzTfh8PnR2dqK3txdnzpzRqJ8tVYPBYNmkNi
NBGhKiEwZWHQ4HQqFQWRUhJyfderqtkiLifUqkzglICov34XQ60dHRgZ6eHvT09KCtrQ319fX6Pg6aBI9SmBbJSmdScxaLRffboW6vrq4ikUiU8e6SO5c57vT8J
L1AY0Kum57U9evXy+JZ7CgqdRuAznxyOp16Szu+A85R6h89KbvdjtbWVmSzWd06emJiQge2qdvknVnrQBAjg+mkp+LxuN64hSmRZoAmJZvN6j0cLl68iNraWnR0
dKC3txfDw8OwWkttddk/aW1tTc8bCcgI0DjGfNZcLqe9ZW4cI+MBrHAl6JTeGSkZ2beK3j1/ZuyB36Vud3V16a0oqdv7yZEw7nwQ/kz6xe12w2q16ocgp8UJYrP
ZcOvWLZ2iJA21TMtifi8/NyuGnDwc+EgkogecaVrkfevr68u+/9JLL8FqteJP/uRPdNHO6uoq7HY7GhsbEQgEdgW07HY7mpqa0NLSgqWlJR0Mmp6e1otAY2OjLn
5YX1/XnRNJj8jKWPnMMsColNLpmKSQpGsKlBZR9vC5du1a2SLT39+vt4CbmJjA1NQUNjc3d7m6HGu67qQWXC5XWWaMzAWmISLqpJdBT0Om9RG18zguIjabDUNDQ
/jIRz4Cv9+vKQpeR47LByXmMnd6WlarVZf7s6pXUirUbRYVSeQt00KlbnMRJadtTh/d2tpCNBrV90M6j7pdV1dXBog++tGPwmaz4U//9E8r6nZbW5veuYsGrKqq
Sqf6LS0tYX19HcViqaiO/LzP59O6zbTGdDqtUwup1+amWtQJ2gFuqE76ptLYh0IhhEIh3Lx5U993b28v+vr6MDAwoBu6zczMIBQKlXm8BDT8va6uTi9m7OhopnV
lphApSB4vA7ey7oN6K+ewzWbD8PAwPvShD6GpqalsxzO+z/10+0gYdzlhpXtPw8rP0um0Pp5IhajHzKtyMkh0Iw29nCw8p9nIkxtk8CIYDKJYLOoXzN7bdEEZRC
Jilf3diVJ4bwzEKKXg9XqRyWR0T5r19XXEYjGMjIzoApKWlhY4nU5sbGzo1rHMM7Zad7pWAjtuJXtiME2NmRNUSJn1Iv+l02nMzc1hbm4Or776Knw+H7q6ujA4O
Ihnn31WZypwM4JoNKoLlQzDwOrqKjY3N9Hb26s38qASSiNPIQfN5kwUeX9ykkt6ioVjNJCkaZLJpF4M7qfU+0HJfrpNz0ouZlzspLcK7BgC6ixRPAAdp2AGDo+T
CFj+TJTKeoLe3l69Tyd703CTl9XVVe0xNzQ0aIqUVAoNLTljegl8Ro/Hg0wmg56enj11m7tMcdN7BvuZTcYEAWl02b2VgfXW1lYdUOexZjEMowzVv/nmm/B6vTh
27Bj6+/v1HqgLCwsYGxvTO1xxrgLQn3V3d8PtdusiJHquUt84z5lgIL1cGWORRWEySYHAkFQN328ymdzFTFSSI2Hc8/m83oZMlh0DO018stksTp8+jdraWo0AWP
kmB9OM1pg+SHeODe8BlLlhLMZgl8fm5macOHECFosFm5ubaGho0EaMKy2NOws66E6RFiEaY5oar2m1WsuUgpOcTY18Ph+Wl5d1K1OWlVssFng8Ht19MhqNYm1tT
d+XDCq73e6ySd3Y2Igvf/nL8Hq9+JM/+RNsbGzoABfpFHM6GA1BMBjE5uamRvUtLS3o7+/HCy+8gLq6OkQiEUxOTuLmzZsabXq9XqRSKd3TmmmmfFd0eYkGuUib
DaD5fvg5nzUej+ugHeMWDF7RI1hdXX0AWnp/QgDi9Xp3FRUxzTOXy+HkyZPwer1YXFzE/Py81m0iah4v6TCPx6OpCtYJMKAqs2PYFKyqqkpvu0d6IhgM6joAelh
utxtNTU16vwMG/aijck/WpqYmrUfkxaVus7+T1brTfGxlZQVra2ua7oxEIjoYzN24IpGIXgi4F4FhGHoXNZ4fKC3wX/jCF+D1evGnf/qnWF9fL6sQ3ysFlB56JB
LRqL6lpQW9vb14/vnnUV9fj2g0iomJCdy+fRu3bt0CgF26Ta+SXDlz20kry/5MFAbHCUrkeBGkJBIJzM3NIZ/Po6OjQ1f70puVQepKciSMO1AKlLLSjJOak508Z
CwWQ0tLi+a7zp07B5vNhrfeemuXYQJKE4ttAurr63XZL3PO2VeZaIloUlaBycnEQAnd3+rqat1/e35+Hj6fT2/40dDQUOY+RaNRJBIJJJNJ+Hw+FItF3VxI0g1E
qHLhkulu0WgUP/jBD9DU1ISOjg60trYik8mgqakJ4XAYiURCTyjJ7fX39+uJ8+STT0Iphbt372J8fFwrmMxGMQtRZSqVwszMDKanp/HDH/4QdXV16OrqwokTJ/A
P/sE/gFIK8/PzuHXrlt48xel0IhaLwe/3lwW1eW9sccBrE9lIeoAelfkY7sDFYpPm5makUindMY8o74OUcDisdcqckcFc8FgshqamJj2Bn3jiCVitVrz99tv6uS
V4Mes2+8CQMiS6o5FhwI651qQBgJ0KUZlLzZRboLQrELOfuEmG1G1ursIgLACt26R8yPEbhqHTGiUNB5QW6h//+MdobGxER0cHWlpakM1mtW7zmXif1PHBwUG0t
bXB6/Xi/PnzUEphfHwc4+PjGq2T6pUeDFBeEZrNZjE3N4eZmRm8+uqrqK2t1aj+F37hFwAAi4uLGBkZwfj4uG4aFo1GdYyH48xEAcZWKs0rc5xKvgsabmbX2Ww2
NDU1IZlM6pRTmVJZSY6EcedEDofDqK+vL3sB0i0PhUIYHx/XCIIGj8fK/2kMJE9HhTBHt/k9aTzMQatKwr4zMzMzSCaTOutBvjS6XDabDel0Wm/Q3dLSgjt37iC
ZTCIQCGjXlrwhJyADarx/q9Wqtx2cnZ3VC4HFUmqRXCyWusZNTU1po22z2XQzr1AohP7+fp3Zs7m5ifPnz+PWrVtYWloqy1bZz9ATOaytrWFjYwNXrlxBdXU12t
raMDg4iJdeeglf+MIXEIvFMDk5idXVVT0xJaoqFAp6knDs5HuUbiqF36OB556gdOWZgZFIJCoi5kcpvP/NzU00NjaWtRigkPaQ+8ZSt6U+SwpN0of8O48BdnTbT
E/ynoDdjfUkGCBCnpmZQTqd3vV+yIlTx1OpVJluj46OIh6P69YFsjEajbs5IGizldoPW61WzM3Nlen2iRMnUCgU9GbSXNhtNhuSySSKxSKCwSD6+vr0nskbGxs4
f/48bt++rTfWZtBZ0nxS6E0CJQpG6nYgEEBvby9eeOEF/NzP/ZzW7bW1NZ3CKCtVgRLlWKlBoLye+W8Es/l8qaMsvXJ6Bk6nE/F4XHswe8mRMO5A6SGJpPmCgfJ
CC+a20k2UwVagvAsejY+sFCNyoMsu0SIHVB5j5n9pqDmJNjc3sbS0VFYEJYMqEpUwQ4LpbalUSleLhkIhtLa2YmJiQmd6EGHF43HtPjJodPr0adTU1CAcDmNjYw
ORSASjo6MYHR1FfX09WlpaNJJlszUGld555x0899xzGB0dxTvvvIPGxkYMDg7qoOrg4KBuTyoDpmZDL3+n4UgkEhox/c3f/A3q6+vR09Oj0xKrq6sRjUaxsLCAu
bm5MpeSMRO5kJGPlqjdbOQAaNQ4PT2tNzNeWVlBX1+fftcflPB52AYWgM6GkWK1WnVhDI0fs1goUl+5SHIMZHUn6SgaMuaqSzBEkbEXiSA3NjawsLCg743nkwFf
ABpokeMnaGAnTqnbgUBAUxkul0t7bPF4HLW1taiqqtL0FKtjuVn0nTt34Pf7dVot5xFbRkciEVy+fBnPPPMMRkdHdSdGVoqHQiEMDAxgbm5OjzOf39xfhh47x5L
ez9jYGEZHR/HDH/4QPp8Px48fx+DgIE6fPq1z/anbuVxOV3Yz2aMSyDDrNt8zdYc2bnp6Ws/JtbU1vQn8kQ+oSn4qmUzCYrHs4tUoNJwcAPLaNLA8BtgpBpGG2v
zSJC9Hg2xWeJ6Txpv3fPPmzbIsDhk8YyCYL4C9nxk9Z6oh3fVsNovl5WUsLCzA5/OhtbVVc6mGYeh8emCnyVRbWxtaW1v1RtHkMKempjRKIsLNZDJ49913cfXqV
XR0dGBlZUVvRJ5KpeD3+9Hf349nn31WL0IbGxvw+Xx602XZ01u+Dxnko7BD4erqKt5++214vV50dHTgxIkTGBgYwM0Jo6To6MZzrGngaVzy
+bxOb2PV48DAQFnPlg9CpG4D0LpdycBTh2S2C/US2N00zFzVKmssgB06URp6KVK/ZRD21q1bmuNm9hGNjUxyAHZaz8rAMbueyp3MlpaWUFdXp8EHn9XcU4c9bNr
b2zE5OalrGxKJBKanp/XiSD1Np9O4cuUKrl69ivb2dqysrGgvlBRdX18fnn76aR3bCQaDWreZNizjFJIekeNJEJpKpbCysoK3335bfweeOHECfX19GB4e1h7GlS
tXdKqn1G2Z8UVPlDouvSxy+NRt9uhRSmFgYGBP7xo4Qsa9UCjoFwtAI1W6sVLx6ELevXtXc94SWXOwzBytpGiA3dFpntfMx1HkosHSafL/zKrhy2IAioFaKg53J
pKIgRVyDByHw2FEo1Gdn81JxnFIJBJlCxb7v5w8eVKjpo2NDW1M6I5eunRJK92JEyfw6quvIpVKYWFhAe3t7ToodPz4cSil0NXVhaamJly6dKmswRIXDDNHb6ZU
5M/MkLhz5w7sdrteTE6ePIlf+IVfgM1mw8bGBubm5rCysoKNjY2yIDHdZXOPeaJy3g8XMpvNphc99jf/IISGmNSTUkr3/5fvV9IdW1tbGB0d1RWONNDAzmQnhyw
BBJ9fUg9mIdI2C98jvd1wOKwzY+hNy+pfALqwSXqn5ntjJStpGKJsbtZNcMR7i8fjZdWrtbW1iMfjOHPmjK6CXV9f19flAnHlyhUkk0nMzMxgcHAQb7zxhl5QAo
GA1u2enh6t242Njbh8+bKmPmTuOZMt5DyrRAEXi0VdcMUCKr/fj8HBQQwNDeFrX/ua1u35+XlN9fC7PD8zYeQ9yKwjzjnasPn5eW1L9pIjYdwB6G6JTU1Nmn9nB
Zh8+RSuvuvrpVbbRBUceHMBAoCygZNZCGaRL7TSMel0GsvLy2U5qt3d3TodkhMrGo0iHA6jurq6rD+KUqU+MJ/4xCdw48YNxONx5HI5uN1uvcs6C0JkcJT3k06n
y1Ab080AoL6+HnV1daivr8f169fLUAHvt729Hf39/XC5XMhms5iamsLMzIyOeXR3d2ses6enB0tLS9qgDg4OYmJiQntYHM+9xpIiJ4QsoPrxj3+sA1dDQ0O6Fwy
R//T0NJaWlhAMBrWHxeeQCzcDkwzgMhi9sLCwL7p5FCJ1mwVnuVxO5+XTQPF9KqV0GiLHTXpIkkOnPsngqPl55WJrzh6RqcIAdN459cvhcKC7u1sHfTnu8Xi8zP
OUnrbb7cbHP/5x3Lx5Uxcf2e07m3RXV1eXNRSjcGGWIpt0Ubfr6upw48YN7cHL5w8EAujv74fT6UQmk9G6zV2Quru7EY/HAQDHjx/HysoKZmZmAJSSDsbHx3V1O
I08KS96h5WoEH6WyWSwuLiIxcVF/PjHP9aplsPDw+jt7cVTTz2lawWmpqawvLyMUCik34E0+PKdydRHLuCLi4t7VrwCR8S4U7mZy10oFHTUfXNzU2ehSPQO7AyG
DAQBO8bZ7/fDYrFo7ksicjkZ5N/MP/N3GuxCoYBwOIxUKqU5dafTiVwup5Wkvb0dqVRKd3UEoI11oVBAQ0ND2ebDvb29WFpa0il7NODME2a2B91RtglobGzU3Dw
nBtEhA4n0DmgcWlpaMDw8rHeampqawvXr12GxWPD000/rrfiqqqoQDAZRVVXap5KpnufOncPm5ia8Xi+Wl5e14hMtSkO/Fx8oP5dFJtevX9eplkQ+L7zwQhnyYa
qgrBCWsRI2dSOil20UPgihfjY1NWmu2ufzASjXbRop2ZoaQFlBFs/FDBmllA64S902L36HeX5ej+0DOIfMus12t8wAIlAhhUHdbmxs1BXPy8vLWFpa0gsRPSumg
QIoo1pWVlb0eFG3GdRVqrRXsYwxEMC0tbVhaGhIx51mZ2dx48YNWCwWPPnkk7rewm63666UUrFPnj2Lzc1N1NTUYHV1VRtRomNzQdVeIgEm2yLcuHFDd+lk4dRH
PvIRrdsLCwtYWlrC4uKinu8sMJPBWZlOfFBztCNh3A2jtHGsz+fT/HlDQwPS6bRuqUuUUymLgi4UzwVAIyK+PLmZgET4kouXaKiSyMlSLBa1siml0N3djQsXLmB
ubg4bGxu6iRIpm5aWFpw/fx6nT5/G9773PaysrOgcZRaSRKNRnDlzBhsbG7qKUKlSz5pMJqMDUYZh4M6dO3C5XPD7/WhqatL

/Kf97W8Pa6/d2dmJoaEhdHd3Y2JiAjs7OwiFQvD5fFhdXRWqaDbnqN9jsZjQQjwN0fVDLm/qtsFgEM6ddDqNWCwGl8tVwACpEoRRt9X0U3V1tRizYtBAsW6ref1
inVe/F0e3bFIyGAxob2/H+fPnsbq6ilgsJvA8blYNDQ0YGxvD8PAwvv/97yMcDguSRSXZGh4eFgAAHSPmr4kOq6iowMzMDFZWVkS3zWYzNjY2ZFMkQR49euBwbY
6MjAgOfGBgAAsLC2L44/E4Ghoa8NZbb8FqtUrkz9RvNpuFxWKBw+GA3+8H8LBuq0NTnlS3df2wl8bn88Hn8+Gtt96SSGJgYABdXV0YHx8Xr35lZaVAt1VWVIPBI
CSCJ01yeiaMuxqyMv/Olnnib9PpNBwOR8lQrhhFoeaDGQIeHBzIYlCrzPR0gOM9HFWBgAfdheoUlpaWFrS0tOCFF17AN7/5TWxubiIYDGJiYkKaWNgqHQwGJadG
z4jn2dzcjPHxcUQiEdy+fVsaT0i9kMlkhKSJvCTBYFCuhZsgm0aIHqEi0nvZ29vD4OAgvv3tbwOAdL6ZzWYsLCzA4/FgYGAAfr9fhhATCTE0NITV1VXYbDaMjIz
AYrFgamoKFosF0WhUUgxq3aN4MZzk1auIJxoTEsg1NTVhYGAA/f39eOGFFwRlwok/Xq8XPp8PwWBQCNge5eF8kKJpmnQG85r29/cFGUbvzuFwwGw2F+R5mbsmdp
r3lYuc050qKirQ0NAg6bfjolAVKMDPVf8GFOo2cLi5sLh57do1/Ou//iu2trYQCARw/vx56cgmg2soFJLaERkX6dk3NzdjYmIC4XAYt2/fliiGus3hO0x/8DgUt
uAbDIfkgowyuZaIRtrd3cXAwAC+853vSHqJ7LK3b99GXV0d+vv74ff7hfZ7e3sbW1tbGBwchN/vR01NDYaHh0W3rVYrotFogeOgRg5PKmwOjMfjuH37NqqqqtDQ
0IC+vj709/fjypUruH79OtLpNAKBAJaXlzE/P4+5uTmEQiFkMhlsbGyc2MPxTBh3FR3B38keZ7fbpTBDHo5SGNViw8yHrmmadKiyc5PQwuL3P0po3K1Wq+RRmWf
/3ve+h5GREYyOjqKsrAyf/OQnsb29jR/96EcYGRnBxsYGysrKMD09Ld4ZjTshXSz6lJWVwePxoK6uDrquw263y8g+eg/s7FTpXjmT0e12S7MX7w0XcjAYLMDicn
Ox2WwYHx8XzzyRSMBgMCAcDuOdd97ByMgIHA4HVlZW0NPTg6qqKqRSKQQCATQ2NuKnP/2peBW6rmNiYgKzs7PY3NyUe6U+O3WDVaX4deY6CZnzer3wer349re/D
bfbje7ubgwNDaGjowMjIyPIZrOYnp7GO++8g3feeUfolJ+W0AvnMyrWbUIaifxQjTPvk/ozU5PcAPj5NptNBldQt5lWOE7U4zBCYBqQr21ubuLNN9/E4OAgRkdH
YTKZ8Nprr2F7exs//vGPcfbsWWEmnZmZkY2IxW/qNnlYTCYTPB4PXC4XNO2QpymbzYpu8xrp2DE6oG6TioO6TWOraRqCwWCBd00UWk1NDcbGxkS32e0diUTw7rv
vYnh4GHa7XXSb3d+qbqtU4uPj4/B6vRJ1MEr5RQw9nc1sNov5+XnMz8/ju9/9rvDT9/f3o729HUNDQ8hmswLzfPfdd+Hz+U4kD3smjDsfKLsxWYVnGEYjxqEW5M
VmekSFL1GZ1WIbv5OIaGdnBy0tLVK0Pc7IqAtKxaxXV1djYGAAt2/flg1kf38fXq8Xq6urMJlM6OjowI0bN1BXV4c333xT0ilUfuDQQJNCmB4Td2L+ztSSph0OS
uBmQuIuDqwgox7RL8FgUKKcXC4nHhZzgPX19VhbW5OQt7y8HF1dXdjb20N9fb2wQZaXlyMSiSCRSKC5uRnRaBR1dXWIRqMwGAyYnZ3Fb/3Wb8FutyMUCkHXdZw7
dw7nz58Xvnt2T/IZU4o3afVZFW/WKlIJODRMgUAAwWAQP/nJT2Cz2YQ9z+Fw4Pr163j55ZeRSqUwOzuLP//zP/+FdPOXFdZ3mMYjeqqmpkYiKOaxDw4O5HW1LsT
PKfUzf1drDs3NzUin08fqNvBgdiqhpNTjqqoqOJ1OvP/++/Leg4MDzM/Pw+/3w2Qyoa2tDdevXxfdZo9CsW6z0M8UDnH7jDpyucMJSpp2OOCmvLxcAAn5fF5QZI
RUsiAbCoVEt3VdF91Op9NIpVJwu93w+/0wm83IZrOoqKhAd3e3dHJzGFB5eTlisRgSiQRaWloQi8VQV1cnw2m8Xi8GBwfhcDgQDAah6zrGx8dx4cIFJJNJwc+Tl
ba4t+Bx0jZqbUR93qFQSKCW1dXVaG1tlQHb169fx40bN5DJZPC1r33t2M9+Joy7avRyuRzW19eFETKbzUr4yWq90WiUzrXizjt6NUzTqDlgvofFWaZ8VDrcYlFf
Vx9CZWUlOjs7pfLODjmz2Qy32413330X5eXlGBgYQH19Pf7+7/8ea2tr8Hg8AmHiwk4mk+JFs/hLxAwbnhoaGmCz2TAwMIBYLIZ79+5JBZ1eT3l5uXg8TEXRUBC
Ns7e3h0AggPr6ejgcDlRXV6OtrQ12ux3xeBzNzc3Chc1Qv6qqClNTU4hEItB1HfF4XEaOhUIhbGxs4MyZMwgEAtB1HalUSnhOeFwyWzY3Nwvmv1SvAT334mdbbO
zV33O5w+ldiURCisM0Xuqm/DSEDgh1O5PJoLq6GiaTqaRuM6d+XApLzamr6TbgQSSWz+fhdrtFtynFKRs1SuLnEm1EVAnXZjweR1VVFerq6nDz5k1UVFSgv78fd
XV1+Md//Eesrq6isbFRitmMQDc3N+W8aAS5Bnd2drC9vQ2Px4Pa2lr09fUhFovh/v37sFqtgqxivWx7e1sicLXB7jjdNpvNaGlpQW1tLaLRKFpbW+F0OtHW1obG
xkYEAgFUVlZidnYW0WhUdJvABKY/enp6EAwGoWmHMFbCnzc2NiT1FIlE0NLSUqDbPL9HocmKgSLq/xLAQf4bChlhT/Lcny5GTBFOWkmn00Juv7W1JeHQ5uambAD
qMItSDTTAgwYmSvHf6U2QX72hoUHItopFxcFTSPJ16dKlghF+29vbkq74p3/6J/zDP/yDDGQgeT83F14Pw1FCE3k8DiXhxB6G9pyi3tXVhZ6eHng8HjidTvHA1F
bwUumqlZUVCeXJGslhweQCaWpqgsVigdfrBfCAAIst1+yO3N3dxfz8PJqbm2UzDYVCSCQS6O/vx9ramoSP1dXV+NSnPoXBwUG43W7pmOSC2NvbkyYv9TnQWD8up
JEe1Pb2tnCBPy1hWpAUA8W6zRSEqttMUxwXvRTfn2Jh+odpDY/HA7PZfCyMr/jeMhd+8eLFgq7Wra0tJJNJBINB/PM//3OBbjNKIPKHDhBrDUyR0CjTOaMzQnw8
62pdXV3o7u6G2+2G3W4viLo5NUptrgIOdZuDRziXNZ/Pi26bTCaZEmW1WjE/Py9RdzabFZIwnvPOzg4WFhaEmfHg4AChUAjpdBr9/f3CnLq9vY2qqiq89tpr6O/
vh8vlkh4Gbk7k1ykWOh90TNXrUWtF6meQ40mdOV1SD479S5FommbUNO19TdO+ffS7Q9O0NzVNmz/6blfe+zVN0xY0TfNqmvaJx/n88vJyWYQsslBJs9msFGgYTp
HHQa0W0yiSV+JRCwB4UHlnQUMlt1I/F3iYN5vFLJPJhN7eXpnKwocwPz+PlZUVfP/738fW1hbC4TDC4XDBZqCmkrgAmTe0WCwwGAxyL+jNkjtF13XpvHO73UJa5
nA4ZGExv87zBR7k3VnEJbwwFAphd3dXWqi5oRiNRpw5c0ZauXkeGxsbODg4wOzsLKampnBwcCDzTScnJ9HS0iINL7u7u8K22dTUhLKyMrhcLjgcDlno9CTVTt7j
nttJQm+zGEFVSj5ovQYgqTRd14VREHhQxOYgDeapifxhgVCNOklbwYj0JKGemM1meDweuN3ukps9ULhx0MgQitfV1QWXywUA0jU7Pz+PtbU10e1IJIJQKFTQVQ0
86DehZ00dpOPClCSbt3jO+XweHR0dmJiYEE4eMrYyOlBrOapus5ZF3fb7/YhEIpLSIac88/W9vb04c+ZMAcMm04ikPmAKtVi3ud7JT9/U1ASDwSDsriRPAx40Px
5n6NWcvdq5qm7KxbDvE23cidpRKP8FwIzy+x8DeEvX9R4Abx39Dk3TBgD8NoBBAK8C+B+app0YFxsMBim8kfGMik6ODBp2wqUACE0w8MDw0ogFAgH4fL4C/hIVi
aEKvSt1cAGbeIAHCs+wVk0b8PX6+np87GMfk8Ijc4/hcFj4qTc2NnDnzh0xXGqYrOu6GGzCntTRXLlcrgChY7VaJYVTVlYGp9MJh8OBsrIytLW1we12w+12yyIy
Go0yto+4cjafGI1GzM3NwefzCbY9kUhgY2MDjY2N2NnZETy+WvgjIVIsFpPu12g0ikQigbm5OZhMJvT09Ei4T+6N9vZ2QUKQ6Y9eNr00hqQMcYsb2I6TYrjfY8g
Hptc8V9aQyJVOPSadLXWb/P9MR3Jz54KnbgeDQayurp5I90pRa01EeZDThZuger9UveR99ng8uHHjBs6ePSvPhwV8pgTX19dlwpOKXOOz55plGoE1KJWxkulRi8
VS0AzI5qXKykq0trairq4Obrdbcv0Gg0FqVawpVVVVSa/HwsICVldXkUgkhPYjm82isbERW1tbaGtrE8IxAILBNxgOKTjeffdd7OzsIBaLCXkhHR7K5uYm1tbW0
NbWJk2Om5ubUpTe3NyUiBs49MRZZzkuSmUkXJx+e1x5LOOuaVozgE8C+J/Ky/8JwF8d/fxXAD6jvP53uq7v6rq+DGABwInj5/P5Q0pcm80m8xrZrbm+vi5Dn1XD
zhtDo662Z/N3VqHj8XhBiEOFK3GdAiM8ODgQ2JFapOX/qp2f/JkskdzhHQ4Henp6JDRj5d5mswlnCK+BnhKvjefC82Jag96K1WotyGESHllWVob29nbhouZCNBg
eTGba39+H3+9HeXk52traJCze2dnB8vKyNBYtLy+js7NTwt3W1lZ0dHTAbrfDbDaLt5NKpQrw1lwUfr9fmm24udy/fx82mw3Nzc1YW1vD/fv3ZSPweDz4zGc+g4
6ODtl0SJzEoQc0Ho/jwasG65i/f6B6DRzq2vr6Omw2mzgNTMtsbGxItMauWt4nFjqBQsdFpQ/Y3NwUIr1HicFgkIEuLJBGIhExHnRW+LPazU0dtVgsUvAlcZaad
qipqRE0GnWaOs71SeNOr5e6zXtC3SaHO1NE/Lm1tRW1tbUy95S6zYhyb28PwWBQnBzqNqkJWJ9ZXFxEZ2cngEMa36amJnR0dEiuvqenR2az0uM2GA75p+LxOAKB
gFCHA4fGempqSgr7gUCgQLfdbjdef/11tLW1wWazyYbLjV+lPziuGFsMEnnkM3+sdwF/AeC/AlBXSb2u6yEAOPpOAo8mAGvK+/xHrx0ruVxOduFsNiuImXQ6LTk
8GnbtCBapGuJSwvZ/wotmZmZkWvnROR97PiqGOBKJYG9vT1rBVc+dnYNqWMjOOYaQ2WwWyWQSOzs7ePnll/EHf/AHMjaNeGA1JC0rKysI20mtyskzJD7i9CYqHY
tw9PrIp7KxsSE5PW5M+XxeKFX7+/slLZJMJgU6WFZWhuXlZTQ3N6O+vl4QBp2dnXC73WhsbMSLL76I5uZmOVdV6fb29nD37l1MT0/LBsTjxuNxdHd3Y29vTzz6b
DaLrq4uNDQ0oKKiAjabDS6XC1VVVeLR0lAUN6WpwufxmAvgL/AB6jVwmJYorp2oHZ40nMzL05Pjpnx0HgWfaTAYkMlkhIFzZmZGMN+PEqY6STOwt7cnaR5GiWyS
4fuLdZsGl7q9t7eH69ev46tf/apwPZGRlIV91rbouHAjo4Gj42IymSSFw/+nfhqNRoH6Ag90G3jQP6DrulACq7qdyWSwvLwsac3V1VU0NTUJMiyfz0v6yePxiG7
ToKsIrt3dXdy9exeTk5MF6K2VlRUkEgnZGAgOoW7X19cLB5XT6ZQ0Kp8zHcBSdafi9NnjyCPfqWnapwBEdV2//ZifWWpVPaR1mqb9vqZptzRNu8Uwjm3PmUxG0g
M0NDTk9ODI4a0aLYaavBFsGmLIPzc3h8XFRfEKHiUMz/L5vOSVGcrSoFNR1fZxGrNAIID5+XksLy8L5arNZisgEWN+UB2XR94WMvCx7lBdXf3QMGP+zsXCKTY1N
TVCEazmbLlQA4EAtra2JB1lNBpRU1Mj+UB2t+ZyOUxMTODMmTMIhUKYmJjAwMCAsFY2NjYePmAFUkeWxpmZGSwuLhZ4lpubm5iamkJ3d3fB/6bTaakFeDwe3Lt3
D9FoFGVlZQJ9ZdGNnqtaZCpeCGooW2pBfFB6ffTZD+k2UVXZbBaxWOwh3aYR3dzcxPr6uniiTMnR+NIpYBFwe3tbMNJLS0uPHJpMYa2Juj0zMyPriCkxbpI0YDT
u7H8gbwuBCTU1NeJIsPjJVCJ1mXz7au/J9vZ2QVTKQih1u7y8XNKA6+vrBblsFiJ5nrlcDqFQSOgKVN1mCqi6ulqgvufOnUNvby9CoRDGx8cxMDAAj8eDsrIyND
Q0iEGnztHIs1mO64mQzKmpKXR0dBTodjKZRCgUwv7+PhobGzE1NVWg21wval6dRh4o5G56VDFdlcfZBq4CeF3TNB+AvwPwsqZp/wtARNO0hqMLbgAQPXq/H0CL8
v/NAILFH6rr+td1XZ/QdX2CXYYkVYrH47JbqvwSHFnFZgimLVTjzt+pEDRo7K6MRqPwer0F6ZbjcvFH1ya5eLYgcxgAFwI9Lhp3YmC3t7cFpjU2NoZMJiOekYps
IZyKCswFqh1Bxpi3Y15S13VUVFTIOdFjZ/FsfX1d5mOyHRuAoAUASOfbD37wA+Gk58xVNlF1dHQgEAigt7cXDQ0NiEQiqK6uRmVlJVwuF1ZWVtDf3y/PqrKyEhM
TE6KwvFYaKirx7OwsDg4OMDw8LPefRGGLi4sYGRlBZWUlvF4v7ty5g5WVFXm+0WgUg4ODqK6ulmdMTDS9pccppH5Qel2s2waDAel0Wrw4Oi28X0zHMC3GhhhVt1
WHgvlpeqzU7Ww2i0gkAq/Xi3A4fCKKQtVtcrqwd0JNEfDvNDKsxbDDdnd3FxaLBaOjozIVis+ZukaaAIPBIJ2g6rpisZnpE0IxCevl+uK9SqfTqKyshNVqlZoP9
Z+bPx2FH/zgB1hbW5O/EYLq8XjQ3t4Ov98vaLNoNCpT0VwuF9bW1kS3gUNOnfPnz0tdi7ZDhS3qug6v14tcLoehoSFZd3t7e6LbQ0NDKC8vF91eXV3FwcEhrXAi
kcDw8LCMBlV1W7VvjxuZPtK467r+NV3Xm3Vdb8dhQenfdV3/zwC+BeD3jt72ewD+5ejnbwH4bU3TKjRN6wDQA+Ddk47BUJsQJxo+g8FQ4LHTU2MuVmWLVBn11G5
A3gi1QKFpmoRL6k54XJgPQM6FSJ3Z2VmpqgOQIqjKnc33X7t2DTU1NeLpcNNijpAGXTXuKmSMKAnmF5nfr6qqKoD5kTODZFIsftHLZ/6Ux/3GN76Bn/3sZ7LgdP
2wQ5G4dHbtVVVVySJnftRqtSIWi6G+vh5Op1Nw+RMTE+ju7i4w+PQ6mTNeW1vDwsJCAedLLpdDLBYTgqUrV64IzjkQCGBxcREcxMG+vr6pGBMYwIcU
gtzKtNJxv3D0GteF4vpqm4zSqPh4b1l5MPrYY6dekwDqqYj1c5g6jbROY8j1G1OE+J4RJUymsyE/JkOz7Vr11BbW4ulpSUsLy/LuqOzUKzbHDtHBA3RYExDsSeA
TgpwuAYZ8TLq5nAPlRaZxn13dxff+MY38POf/1xSNfl8XsYE7uzswOFwyBxmdovzfKnbdXV1wvtjNptx7tw5dHV1yfWpNTHaBep2IpGQv+3v7yMej8uc1itXroh
3TtqMsrIyNDU14cUXX0RfXx/q6uoK0lF8HirA4FHP95fBuf85gFc0TZsH8MrR79B1fQrA/wYwDeC7AP5PXddPdCMY0tALVT0bPiwO5VW76dgyXaqazEVBpVext2
NjYxgdHZXCDImOeC7F39WbyJwgcJgSuXXrVkFRi1wwFosFFy5cgM1mw4svvoi6ujrU1NSIYebAAzLSMRdpsVjEA9U0T7Y9AMpCqjwNOTMw3OHZ4cvsckqgoH3h
xNpeG+0IyQNJ7XTo2PBz2KxIBwOizFh6NzX1yf3f2trCwMDA2J81Fw5/x6Px/Gzn/0Mfr8fDQ0NaGhokHSczt+dDKBTCpUuXhEOc3mk6nRYiKaJ4mJsnUyChqbqu
F3jzT0OvqT/Ubd4P4EFBkREeGf8Y3ai6XbyQWajkZ9Hzq6iowNmzZ3H27Fk4nU5ks1kEg8HH5tYxGo0FunZ3z5k2kUilxXAyGQ9Izq9WK8+fPo6amBlevXoXL5YL
VapX6ARFsTDtx3TKXzutjXwkhkkxTGgyH3DEqjpt1KnZl2+12bG9vS8SvcuWwiF2MCFJ1m01kBGpYrVYZBclNdGtrC2fOnJF7v7W1hf7+/pK6zR6XeDyOn//8
5wgGg2hsbER9fT1MpsMxlysrKwiHw7h48aKkidiEmMlkhABQ1W232w2bzSZ6rRK8PYpW44mMu67rP9R1/VNHPyd0Xf+Yrus9R9+Tyvv+m67rXbqun9F1/d8e57O
Jd2XIqeYh2YbMC6IxUhcAHyq/U9FU/DRfX1paws9//nO8/fbbmJmZwdraGuDcpIHmdZlMJin0mc1mGaoQCoVgsVhgNpvh8/lgs9JCjGV2hn5GptRDg4OkM1mkU6npRqvH+HgOQ92bW0NjY2NMJlMGB8f8fl3QJi0
D03gBIAVmFjDHvx6Lq5uam5BHpCWlH0EmmbDKZDOx2O5xOZwHeXGUcpIHmdZlMJin0mc1mGaoQCoVgsVhgNpvh8/lgs9lkoft8PoGRMeXCUYE8DqlOuem5XC6ZK
mMymWTjy+cPicLu3LkDh8OB8fFxSdlsbm4KXjkUCqG9vR2Li4u4ffs2EomEHIMDotXU16OM+wep1wAkLUHdZhFN13UhrFIx0HwWqr6pOVd6z8WoioODA/h8PtHt
2dlZBAIBzMzMIJFIPLYnT09V13Vks1mkUin4fL6C83E6ndA0DX6/H42NjSgrKxNuImL1CRJQse18nvy9WLcZCZO6QP1ftdHLbrfD5XKhubm5oOP8OPw/U7/U7WQ
yCbPZjHA4LCmepaUlWK1WmEyHbJYrKyvo6urC9va2RDQNDQ2C3qEDykYrq9UKp9OJeDwuG5hLbrfD5XKhubm5oOP8OPw/U7/U7WQ
xfXy99NLwe6shx8kx0qBL0T8Y35uIYinB3ptFVC0uqqMVVdlCqqRkAQimbSqVkSgyNx+LiohRcHxduVFFRAYvFglwuh5mZGdy6daugAFVTU4NEIiFKzgIqFwCVk
dfERcUiFBFCKqqAhSar1Yr9/X0pRDFcZFG1uroa1dXVOH/+vOQAGeLxO40MvTN2tdrtduzs7MDlcsHn88FsNiOVSuG9994DAKFHjUajwr8OQEb3dXd3y/OpqKjA
2NgYBgcHBQHEiIWeNeGjsVgMs7OzSKfTGBkZEbpjbqLhcBjvv/8+LBYLXnjhBYGcdXR0iOdDxBDpIIqZRD9MoW7zvFhDYRMYc9XFX2oBT+2vUFEhhBcCD+iSl5a

WkMlkCjp+STW7tLR0IotgsajTxWZmZnD79m3xrMvKylBTU1MAfGBag/0aap8Io2Z6uPx8AFJTUnWbnq2KHFN1myiq8fFxDA0NFaRdVcggHTpN06RDnIRtJMKrrK
yUeQKMlt1ut+j2mTNnoGkaVldXkcvl0N3dLfahrKwMY2Nj6O/vlwIxoxBCdxl1xONxQe0NDQ0JHJYp6XA4jLt376KqqgpXr15FMBjE1NSUTESjLdje3kYikZDfj
9W9x37SH4JQ+akcxGWzTZ45SnoFbrdbOuco6iKggVTx6apnzoVCulIWvEiS9LjhLHdwEndxGHI2m0VZWRm+/vWv40//9E/FAwqHwwK1VGsEalcgOTkYfbDARFQB
8KCFWy2q8v6RqY/3i+EhAEnBqBukGsKyaFVfX4+qqioZ5M0RfWqXLVE3Q0NDgurx+Xzo7e2VXLHRaITb7UZ/f79s4Iww+LnEULOwOjk5iWQyWYCIAA4Jlebm5hC
NRvHiiy/C4/GgubkZra2teO211zA2NoaGhgZYLBYcHBzgYx/7mBRun6YwGuVGQ922Wq1SQGMRen9/X7p31SKaChxgfll1cBjZ5vN5MbZ0XFTdfpJUjVr43drako
YlNp/95V/+Jf7sz/4M6XT6Id0GCjteCQJQCcRMJhMqKiqwsbFRYNzNZjOMRmNB3p1j/0glwBoAB3vweKqzxDXO+0bdrqurg9VqlQlf29vbWFlZQSQSEe6nQCCA7
e1tDA4OygbESFXtQVB1G3jQkAhA0isWi0W42qempmSQj4qECQaDWFhYQDwex7Vr1wRy3N7ejk984hM4e/as0KQcHBzglVdekRRYKXkmjLsaatBokDuB+Ujm5fiw
crkcent7UV9f/9Dn8aGS76I4T1WKx4TePY8Tj8cRDoel+KN+8RjFx+QCZuWfUYDRaMTa2ho2Nzfxox/9CH6/XzDOLBazqENlZzFL3Tg2NjZk4dA40pDz/FlUZfG
F3X7E1KoelRr+0yBomoZoNCr5V+ZNU6kULBYL1tfXMTs7i4qKCni9Xty8eRMLCwvo6uoS6gav1ytdhDze/Py8YIhVIebaaDRKATgej+Pu3buYmZmBzWYrgHISSn
jnzh3Y7Xa89NJLSKfTeO+995DP5zE0NISWlhY4nU54PB6ZPPW0hEZZ0zThaaHHxjqSqoeM5np6eo7VbabtVN1WHRfm4Pk7z4Ovx2IxRCKRh9JVJ6VtVEDBwcEBF
hYWpAPT7/dja2sLb7/9Nvx+fwFtBacuqWlXpl54T8rLy4WIjrpNned7AQiZIGl2q6urZQYBjamad6djxNeNRiNisZjoNtNGxbpdWVmJubk53L59GwsLC+jp6ZHx
n16vt8Cp1HVddJvPS01H8rodDoc0QN27dw/T09OS/6cDRN2+e/cu7HY7rl+/jvX1dbz//vvI5/MYGBhAa2urrKP6+vqPhnFnuK5pmkxLp3LSGJPeloatoaFB0gl
AYQcpvRt676rnw8VGBAC9AJPJhKqqKly+fBk3btwQSB69cX5uMdyuuPBlMBikdRwA2tra4HA4sLe3h5s3b2JmZkY+j3hgNrewIEXjTggZGzjUjryysjJRSp6PzW
YrKACxaFxRUSEUyir9gWo4iaRhm/bk5CRWV1fhdDqxurqKuro65HI5TE1NwWg0Ynl5GRsbG5iZmZHxeLquy2JnezZzwZubmxgcHBSFZqG2uroa7e3tsFgs0pxFO
l/y36iF4EgkgtnZWaRSKdy4cQO6rmNxcVGQPW63G21tbULE1tDQ8CFocWmhAaOh4VwCCtMGdGAAFOg2n5HRaCzQM6I7qNtqj4fqaNBIEk9/8eJF3LhxA0NDQ9Jf
wRz44+Tk2YVNp6ClpUUoQ27evInZ2Vmpv6hYd+o21xOPRd2mg6L2M1gslgI0GDu7gcN+CbvdLh3s1G3W5PhZKoQUOCyqGgwGTE1NYW1tTVIzqm5rmia67fV6BfO
uaZpEqr29vQAON42VlRUBElC3GYWbzWa0trbCarVKQZl0vtwsgQebczgcxvz8PNLpNK5fvw5d14U+wWw2w+l0orW1VVBIamquWJ4J415TU4OXXnoJ586dQ3NzMx
wOhyAgmKZgeoVfhEERCws8KBDSa6EnzhvOB04oGhcGP5ObTGVlJWpra+HxeKBph0MAFhcXEYvFCjyD4hpAcRGWn1VeXl5A48oQmUWgra0tgYkx/CQfDQAZTMDcs
8oxU1NTIwx57FQlVpjUu0zbsCDDlBWFykgvj5sZBxbU1tYiEAhIKOvz+ZBIJDA4OAiXy4VAIIB0Oo2uri7ZhBYXF9Hd3S2pF/U1Xg+L4s3Nzbh8+bJw3TAHyqK6
xWIp2IQ4nu7+/fuoq6vDa6+9hkAggPfeew+6rqOjowNVVVWorq7GnTt3PkDNfbTYbDa88MILOHfuHFpaWmR4uZpmVGtChNWRi1w1TKpzwc0RQMEGwHVCNJYqNPg
1NTVirKjbpHN+XGE+nqMf6cisr68jFouJnu7s7BTMAWbqhbpWrNskvGNRk5470Vr5fF5gktRtg8EgXauMzNW8uxrFsIDNPo/a2loEg0HU1dWhuroaKysrSCaTwl
y6traGTCaDjo4OSc0sLS2hp6dHDGs2m8Xi4iK6urqkQ5ebW1NTEy5duiT3vaKiAvF4XOqKFouloDi+sbGBWCyGqakpuFwufOITn0AwGMR7770HTdPQ3t6OqqoqW
CyWAs79UvJM8LmbzWZcvXq1pGeyubkp+fD19XWk02mk02lp5eYgDxaY6P1wwdAzUnOTxQZd9WB3d3cRjUZx6dIlGI1GtLS0YHh4GPfv3xcmPJfLJRjdR4kalezu
7srDn5+fl4e7s7MDp9OJVCo1BR1SlxIeycXAxhF6LjU1NZifn5fB0MQLV1dXI5lMoqurS9JRTqdTUCSMFpga4gKg8WAxiS3WhLANDg7inXfewdzcHPr6+rCysoJ
0Oo2lpSX09vbCZrMhkUjA6/ViaGhIhnAfHBxgenoaIyMj6OzsFMU8ODgQpsjGxkYhkOM81vLyciFJY5E8l8shEolgcnISo6OjaGxsRDQaxf3793H58mU0NTXBbr
ejublZmnqelpjNZly5cgXAA4eAXjqbj1hYXV9fRyKRkF4CcqKrlAFqfYbrRd0cABzrze3s7CASieDChQswGAxoamrC4OAgJicnsbCwAJ/PJ07V4wAKmDIklJfra
GFhQRwa6janQxFnzrQJdZu9FzT+LpcLtbW1WFhYEEZYGkR2mHZ3d0uETg4jNVpQG43Upq94PA6Px4Pp6emCJqHBwUHcvHkT8/PzOHPmDFZXV4W2oKenB1arFclk
ErOzsxgaGkJjYyNWVlYETDE8PIzOzk5xKKjbzc3N8Hg8BR3F6vVvbm6Ks0XvfXJyEiMjI9JgNT09jUuXLqGxsRG1tbVoamoStsrj5Jnw3IEHk2HIs0H+hdbWVgw
MDODSpUt45ZVX8PnPfx5f+MIX0NDQILk8Cr1SNc9YbLxVw85jqkaeqRo1F0bGx9/5nd/B+fPnhZdDbfV+FHSS4TlRExzCQW568unQU2VKiblOKgPZAjncwWazIZ
/PPzTIpKKiAolEQhYg57gyN6ni3lVIFRdCMBiE0+nEwcEBVlZWYLVaEQgEcOnSJeTzeUxPT6O+vh4vvfQSent7pSGEUETyXvf19ckmGA6HEY1GMTQ0VIDRJk3r4
OCgpBKqqqqEZ0j1cPgcOTh9enoamUwGlZWVAgPM5w/pYol7f+edd341SvpLivp8amtr0djYiN7eXpw7dw4vv/wyPvOZz+Bzn/scPB6P1GJUD7RYVH3j+4qLrPxf
OhksaPN1l8uFl156CV/84hcxMTGB7e1tBAKBE6c4FQsblFSKajpkW1tbUkNiZEbvml4/ACnGq7pNyKFaVOU8Vm4W1O3a2lqJINTOc6Y9WKcwGo0Ih8Mldfvix Yv
ihNTV1eHFF19EV1fXQ7odjUZFt7nuw+EwYrEYBgcHCzaSYt1mxz3vBzcrtScnk8kgEolgenpa6myEb+u6jvb2drl3Jw3IfiaMeynFLfZGgAeKy7QDETUAHkqXqE
a9+HuxgVdDWhWhor6fRZHLly/jS1/6EsxmM6amphAKheR4xeerLg4VW06emXw+L/S7kUhEcpFsJGEoyyp8RUUFUqmUeDdM4ZhMpoKiak1NjSwyMlGShK2mpkbuL
wuoxYgLpj5YeAqFQtA0DUtLS2hra4PFYsHi4iLS6TTcbjfOnj2L6upqrK+vo7e3VxpX5ufn0dnZKTjknZ0deL1eNDc3SxQBAIlEAktLSxLWUunZq2AymSSk5WZ8
cHCAaDSKu3fvYmFhQVJ0t2/fRjAYRHV1NRwOB9rb2wWj/TRE1TXggROjdpgCKPidhVd6ZWpahvl0NdVYnNYpdmRUo07nhfeYeXCXy4WLFy/ii1/8IiorKzE5OYl
QKHRsj0Cx4eexCFEk9C+VSgk1MPCAE4lGSSXaS6VSBYyQ1G11Jqyq20SipFIpSXvwPOjgqfeexdpUKiXIMur28vIy2tvbYbPZsLy8jPX1dbhcLoyOjqKqqgrr6+
uSitnd3cXCwgLa29sLoMuzs7Oi23wG1O3Ozk5B/REuSTQbOaDUehoLq4uLi7Le33///Yd0+yTa52fCuAMoyBcWG95ig8zxdMTwqjlvFTrG76rnrhr6Ut57cQ601
GdZLBZpWqDRUrvFitE16kJgZEFPnuH2nTt3hBOD1ATMJzKVwjwsq/Dc5Dg/kudIjDC5Z+x2OzKZDIxGo1T5Gbrz2lTjwlA1mUzCZrNJZx9RNxMTE0ilUlhYWBDP
ur6+Hqurq4JgOjg4pEyurKxES0uLeCXz8/PI5/Po7++XY29vb2NychKVlZXo7e0VwwNA8rBdXV0YHx8veDaJRALhcBhra2tSFF9eXsZPf/pT5PN5dHd3o6qqSja
0pyF8zoza+DOfPc+bf2eumvwtqtOi6jb1tBjrrG4i7ISmfqu6zcI/o1SitKxWK2pqagRKSmRKqesCComs1NZ4EoPt7Ozg3r17kuNWqbiBB+ue3iy7VAmdpG7zGD
U1NYJAWV9fh91uRzqdligEgDQ3UqdV50XVbQ7LVhFl4+PjSCaTotsGg0F0u6enB263+yHd1rTDTvOFhQUAwMDAgBxvZ2cHk5OTMseVnclMF5vNZnR1dWFsbKzg/
mYyGYTDYayuroqurKysSGTa1dUl6KHj5Jkx7pRiw6oaYf6dQzpUo1qMXlHTLKXy7cUGXvWouPMTksnmB55bPp9HU1MTrly5grNnz0oxh0yV6vmookIQ+Xd6Tryu
n/zkJ7h586akWngPaPBUxkgWnqxWK9LptOQuuTCrqqrEMPMaSAXMRhqeD9EYLEgDEMIuzj/N5w/nxBIVMDs7K/eyqqoK4XAYJpNJ6ARisRhisZgou64fMuQFAgH
09/cXpIjYoTcwMFCAImD42t7ejldffVUKhZp2SCQXj8dlMyQl8s2bNxGNRlFVVQWbzYaOjo5fQiN/eSmVHgQejJbkRmswGKRRTeUXUhEfdAzU7mv1ONR1pjiL38
PPy+cPqZY5vpKSz+fR0tKCS5cuYWxsTPQlmUwWeInFEGI1yuDaIfTRYDAIDPjmzZvI5Q5nyfL/CZqgM6Npmhhwq9UqhHvAA8+fNSU+83w+L4AB6jYdCjXtSJ0nY
ReHcOi6jmg0iv7+fhgMh4PfaQvYyUrdNhqNiMfjiMfj0uCk64fMpn6/H319fXLdBwcH8Pv9iMfj6Ovrk7QjAKkNEMdOnQcO+yDYUWswGGCz2YTuJBaLCb/TSQ16
z4xxL/bQi5VW/WL+mOEbDS6AggWgfh7wwGsvFQ0Up2y44Px+PyYnJws6A5nrbmxsRHd3t3SnRaNRaUJQccePc+2cd5nL5YQelINxNU2TQiwjFeYaDQaDcMionX9
sISe9rMFgkFF3VK5MJiMLgN8BSKorEomgpqYGJpMJPp8PFRUVWF5eRm9vL+rq6jA/Py9DE7jpZDIZDAwMyICVubk5tLS0yMDj/f19TE9Pw+FwCBd8Pn/YiTw9PS
2NG/SaCNt0uVzo7+9HV1eX3DeG/vQUuXCCwSBu3boFAOjs7JTr/ShINpsV9kTqMfDwwBEiYlTHRU0tlvLoGAHSs/X7/bh37x5yuZwMCKEhaWpqQmdnp3CpxGIxG
fDBAj3THOq5ldJ3GnkAwliZSCSQSqWg64ezfAFIpEK0GABBg1G3qctms1m6YwlWIGMjAHGMiG+nEFwRiURkIMzKygrKy8vh8/nQ3d0tus1ol9PHMpmMGOhcLoe5
uTm0trZK3WB7e/sh3dZ1HRsbG5ienobT6URDQ4OQATLKcblc6O3tfUi3SRlB3a6qqkIwGMTt27cl934SqOOZNO78vVRqhh4uERT0aihqAbM436l+fqnP5fvpWZO
x0WazIRQKiTEtKytDX18furu70dTUhNbWVrz++uv4yle+gqtXr2JnZwerq6uy+ahG/rgiFV9nCzM9iTfffBO3bt2SMI6YaKvVKoUnYuhV5khS8zKk5fuJJafwvN
QIh+eSy+VkqEAikcDu7i4CgYBQGFdVVcHn80lIX19fD5/PB4fDAbfbjVwuh4WFBRiNRnR2dsoG6fP5kM1mpW0cOEQBeb1e7OzsYHh4WAyXruvSVg8AL7/8coGOs
BuYxTRu+m+//bbQuD5N+oEnlZ2dnQLd5v2hQS1VRAUgHitfL/bW6UAAEN1mZBMKhWSql8lkwpkzZ4Rvv6WlBa+//jq+/OUv4/Lly9jd3YXP5xOoLsnZ1IjvOGE0
wVrTW2+9JbpNz5zXT6K12tpaSVHxOiwWS4FuM61SXV0teXd101F1myijg4MDGQbDqCQUCqGmpkZqSCsrKxJd1dXVCZrI5XJJGsZgMKCjo0M+k7o9PDwsz4BOzu7
uLgYHB6UbWdcPWU8XFxcBANevXy94ptRtRqtE1v3sZz9DNBqVJqjj5Jkw7sUee3FxqNjwb29vw2azye6sfo7aYKR+hmr0Sx0HKDT4+XxeOMPV9EGpPD0Nvsfjwc
c+9jG88cYbuHDhAnK5nIz4K869l8rHq+fMUHV7extTU1O4ffu2KDMHFjDPTiIvNe9utx/OdSb/vMPhQDKZhMlkKshNsg+g+PjcSFKplHhD4XAYoVAIGxsbGBwcx
PDwsLSbRyIRWK1WRCIRUXgA0umrcmNvbGzImDNuNPRUlpaW0N7eXoB+IILD7/fj3Llz6O7uLniWiURCngHv29zcHL773e9C1/Wn2qH6JMLFzilHxSkc4PiRgaoU
G3d67NTdfD4vlAfFus33q2I0GlFXV4cbN27gy1/+Ms6fP49cLidsqMXe+0lC3SZkkZw1TNNks1lYrVahg2YBlRGsph2iaJg739rakty50WiU0XdqV2zxNTG6p25
r2mFXdjgcRjqdxsDAAIaGhqTRiBGsqttc2+FwGAMDA3J/qdsEHvB4iUQCPp8PbW1tqK2tLUjNBINBGYTDmcMU0iOwLmM0GrG4uIjvf//70HX9xKj0mTDuwMOFzl
LFVT4gNkawKKPm2/m92GCrUirvroZuuq7LQI5gMCjjyPb39xGJRISYSc058kulFX7ttdfQ09Mjg6eLF0DxeZe6J9zld3d3kUgksLW1Bb/fLzlKALIJxeNxuR673
S5FVbLocTMkBQA/l+ddDInUNA2hUEiGInCogs/nQ1NTk9QaWABLJpNIp9PIZDJSPDo4OBA2PbvdLvnZmZkZKaBStra2MDU1hbKyMpw5c6YAxraxsYH79++juroa
ly9fFkw+UzqETbIAZjAY8NZbb0mh9qMgrG9UVVXJsy3+uyrU62JnRn2OLFaqqUs28oRCIYTDYSG4ikQiWF9fP3aEYS6Xg9lsxtmzZ/Hqq6+iq6sLy8vLMqbvSZq
g1LrB7u4uYrGYDFandFLTNKEWSCaT4vnb7XbkcrmHdFvTNNFtolq4malEbKpuUzeYXqRuu1wuAW/ouo5YLIZMJiPNekw7UreJsyfmvby8XGa0Aoc2i7qt8i7RWZ
ucnERVVRUuXLhQsFmyF4IQajaf/fCHP8Tk5ORHIy0DPOypq6/xZ+YHiYMGUJAzLm7sKOW5q4ZfFRr8XC4nKAzgwRAM4lZZKGQYWlwPCIfDiMfj2Nvbk1DK7/djZ
WXlIfzw4ywIFlTJ5Dg7O4sf/vCHwrXN8X2cEcsQjvwbsVhMuDRItMTcpRpKq0VWvp5IJMTLOzg4QEtLC5aWlgRD7nQ6EQwG4Xa7cfPmTWiaJjQAHJa8uLiIfD6P
3t5eUVzeR06m4TFZWO3v7y9gdGRnYCqVEi5x1cDHYjGpNVy6dAk9PT3Y3NzEX//1X0tE86wLsdhERanC2oNq4OmRH+c1qw4RDen+/j5CoRD8fj8AyGi8g4MD6UN
QO7FV2d7eFt3m1C5+HnX7SYWbD1ORc3Nz+I//+A+kUilhULVYLEgkEpI/J3e81WpFIpEo4Il3u92i2+qMhmLHBSjU7Vwuh6amJhkbWF5eDofDgWAwCKfLJWyoKy
srqK6uFqbH5eVl7O/vo6enR44VCoUQj8cf6ucIBAKIxWLo6+uTDmUAMpg+nU5jYmICNputgHOIk+nKyspw/vx5dHV1YWtrC3/7t397Ip31M2Hci1MlpdI0/JncE
Sq5ltqQU+zFqHnkUmkeNb1CYW6YzSa5XE74UjhMg8UWoBDRo86RXFpagsFgQE9PD0ZHR9HZ2SlMdqUMfClDr76m4pPZrfu9731PmizW19el8YUhHKfKqOx7xNuq
18sNUj0m74PT6YTD4UA+f0ictLa2JsMljEYjAoEAWltbhUXP5/OhvLwcIyMjElKvra2hr68PZWVl0gbu9XploAGFXDUsStGz2t/fRzqdxuTkJNxutyBnmOvd2Ng
QEqnm5mZ84hOfgMlkwtLSEv7mb/7mF1HLD124mNWCoor6AE6O8oqdFdZvVGFHJ3WbRoeUuwcHB1hfX5c1wZSA0WiU9J/BYMDy8jJMJhO6u7sxjOjqRq4uKTQ+iQ
dPIe6cBFqpVApvvvkm1tbWpLGJHjejWYvFIkXVyspKZLNZ1NbWPjSdqdgA0inY29uD0+mUNM/c3BwCgYB0vVO3m5ubEQqFpJZWVlYmOfVMJoNQKCQYeKbW5ufn0
dDQUECUl81m4fV6Ybfb0dLSIs9mf38fyWQS9+7dg9vtxsc//nGJevf29pDNZrG1tYXKyko0NTXh4x//uDyDZDKJ4+SZMO6UE0MMw4MJ4dyJOVQaeLg7lVKq4KB6
76WEBQxOncnn8/I9kUjIQN9SkQar3x0dHbh+/TpcLhcaGxvhdrvhdDphs9mwt7eHYDAo3kgxjLN4IavIG25SDFFjsZgsArIN8n5xggsnLjHvTo9b9dJ5/ryfLLo
RVUFDQc8tEAigu7tbSKMMhsN29rt372J2dhaZTAa9vb3CgzM3NweXy4W6ujopPs3NzSGXO5w3yWOy+YmFVaIhgEPDT2KqsbGxAgqI/f19xGIxVFZWwm63Y3R0FD
09PSgvL8ePf/zjY5/1By18VselGel9G43GAl1QOw/VWlKpaBMobJJTHaJioW7X1NSIMScfEdN+1G2eN89P13W4XC60t7c/pNsOh0PmC4TDYRmu/qSi5pcTiQTee
ustrKysCC030zkslHPWQ21tLVKpFMrLy+F0OuVeqdQjauqVur22tia6HY1GEY1GEQwG0dXVBafTKc5SQ0MD7t+/j5mZGaTTafT09AxsIGCg

APO+vb1dUFjlBsKU59zcHLa2tjA6OgqbzSbGX4X82u12jI2NiW4XR3gFuvHEd/8DEhXCVeqLf+M4OhqCYo/7OM9dlZOMu+o5bGxswOPxwOFwiLLpuo7a2lo0NDQ
UDJ6gJ8BOUDZgNDY2YnBwEE1NTWhra8Pw8DAuXLiA7u5u4Yze2NgQ1I8agTzK6KuLhxOZ3nvvPUSjUei6DofDIa3e2WwWbrdbKAmYl2Y+1mAwFMDG6PVomoZIJC
LeG3AIoVxYWBDytqqqKkSjUYyPjwsskuErvSKfz4fd3V0Zycdwc21tDb29vQWj2WKxGJaXl4VNk93IHNFHiuFr164VkG+RyoGwzVdffbWAcuFpiKY9GKJCag3CE
dUv6javhYyP6rMvjkyZpiuFoGGuuVhnSHmxvr4Oj8cDt9uN8vJy8QBJmMfGGerPzs6OdEeTPrqhoUE4Vtrb2zE0NISLFy+ip6dHHBjyqDypqKRoqm5HIhHk83k4
HA5pmspms6irq0MsFgMA1NXVFXj4NPLqmifNBnWbfyMJGNv7zWYzIpEIxsfHxTasrq7CarUKhHN1dRW7u7s4c+aMHIsO0JkzZyRK5ga6vLyM1tZWOBwOSXeypra
wsIDOzk5cvXpV0kOM1Le2tmS4yMc//vECMsJS8swY91Ipk2KvGEAB7zNbeOnJq8qs5umLj1F8XOBBWzgND4l+2HTBr/HxcWlc4P8SVeLz+bCxsVFQ2Xc6nejs7E
RPT48s4O7ubnz2s5/FG2+8gZdeegnl5eXIZDKSNwQKh46UEhXdADyYzbm4uIhvfetb4q2S2yMej8tcSrWBhMdSi6q8h0yBsahDRSM0kbWPpqYmhEIh8Xaampqka
5RIlUwmg5WVFfE48vlDAq3p6WnU1tYKnEzXdcG8m0wmQSJwA8pms0JmduXKFZw/fx7nz59HZ2cnHA4H1tfXZfj28PAwmpubn2qHKvBggDsNbjFogK+xqYXeH58F
0zIq7h0o9ERLLXKVi0fV1fr6emxubuL27dsFhHFjY2MFXEC6rku/BaG91G0OqaBus4DZ1dWF119/HW+88QauX78uuv0omKQqhIAWF/oXFhbwL//yL/jRj34EoLR
uE1FGZ1DdEFlb4DNhMZ6fw1Tv4uKiTJVqaGhAJBJBe3u7pAr9fj8MBoN45RsbG/D7/ejp6RHjvre3h9nZWdhsNrS3t0u0qur2mTNnCrh+qNv5fB6XLl3ChQsXMD
ExIQibbDaL+fl5xONxDA8Po7W19dnvUH2UYefCNhgMBWyQxYavVFqmOOeu5tdV46i+Thzt1tYWAoGAjLQicReLXqym7+zsiDGjcWc4x/OPRCKIRqNCg0pDfunSJ
XzlK1/BJz/5SZm8U0yhcNw1qteqaVpBp+vdu3fx7//+70ilUjCZTAiFQigrK0Mmk8F3vvMdCfOABxFAcd5WrXGQE568Jyy+lZWVYX9/H0tLS6isrMSLL76ItrY2
YTlUCd68Xq8w2jE3uby8jGw2i9HRUUEgcJpTLBbDmTNnsL29jYqKCly+fBn9/f2IxWLw+/3o7OzEtWvXMD4+jhdffBFDQ0OCNLl//z7MZjNeeOGFEzmvPwxRN6d
i3iLVyLNmwIYdOhr00CnHGXKgMD1TSji/N5vNSucko59sNitGzWg0ymD6lZUVGI2Hw9KTyeRDhVNCZDl0gzpz/vx5/O7v/i5ee+01qV2d5MWzHqAONee18r5tb2
/j3r17UnRVdXtjYwP/9m//Jo17/Ew15chNksaWaBUW41kQ5VrN5XJYXl4WXWpraxNEmMfjkU15dnYWNTU1aGpqAnCY9uEMg5GREVknm5ubWF1dle5WEoNdvnwZA
wMDiMfjottXrlzB6Ogorl27Jp3bm5ubmJycRHV1Na5evfrR8NyB4z1r9bXNzU1pOeYurBIrAQ9Dw4oV6jgjz/cxneB0OtHY2Cjk+oRgcZAt0zCRSETaxbe3t0VJ
1LQQmS4rKyvFwyDBkMViwdDQEL70pS/h+vXrCAQCBZPfi6V44apevmosOI2d5/vuu+8iFAphYGAAL730Eurq6sQr5CJQPUUAgjggBa9amF1cXMTe3h7efPNNRCI
R8aB4b3w+nzD7pdNpLC4uIpvNoqenB6FQCKurq/D5fJJm6e/vRzqdRjKZRDgcxszMDJxOJzo6OmC322W6k9FoxP3792E0GqXoquu65E63t7cl7z8yMoKWlpbH0r
+nJbzvdFyK+VzUCE71RFU9KM65q+gx/t1gMEgh1e12i1caDodFt4n33t3dFdIvOiLb29sSdanH5Rxh6kUymYTD4RDiuYGBAXzuc5/DtWvXsLKygo2NjZJG3mAwF
DTxUS95HHrjACRFx/O9efNmgW4TpqveGxV4ATxI/bBORSoQesi7u7t46623BEFUW1uLSCQijXhMOa6vr2NpaQnZbBbd3d2IRCLw+XxYWVnB4uIiOjo60N/fL/eG
w2YY1fN5uN1umEwmGYbT1NQkkRzrEFtbW5idnUUymcTZs2cLKAseup+PVj1A0zSfpmn3NU27o2naraPXHJqmvalp2vzRd7vy/q9pmragaZpX07RPPM4x1ILTSQU
oVvU5Ro4PTX1YR+dQkMPma0XXVeCtqp5UXV0dWlpahJGNnZmk6CTqJRwOC0MilTaVSglEj55IbW0tysrKYLfbpcWcbchUurKyMrjdboH9sXL/GM+nIK0EPMDIa5
om+c+bN2/C6XRif38fZrO5oJKvpmb4O8Ny3mMyUdbW1mJzcxNer1ee1erqKubn5+F2u3Hr1i38+Mc/xtTUlLDmES5Hbmx18yFHjdVqFa5zcsLv7OzgypUrcoxYL
CazLOPxOOx2O0KhEO7fvy9YaeKRZ2ZmYLFYcO3atZPu3Qeu248rW1tbwiGi3nc1Wit2dooNfbHDoqZlmL50Op1obm6WdVRKt1n7WFxcxPr6utSFyGGk6nZNTQ3K
ysrgcDhEt9UaCgBpntve3sbS0hLW1taOhU6qHaXFpGd8jaka6vatW7ekU5u6rdamuNmpEY7qHBJXX1tbi52dHczNzcmx19bWsLS0BKfTiVu3buEnP/kJpqenBcp
I2PTy8jK6urqkZhKPx2WNEJq8t7cnQ+B3dnZw8eJFOQZ1e3FxEfF4HA6HQ2auxuNxbGxsyFyL2dlZWCwWaZQqJU/iud/QdX1U1/WJo9//GMBbuq73AHjr6Hdomj
YA4LcBDAJ4FcD/0DTt+MTQCVKcL6f3wAkspTxbhlwnhafFn1vqb7lcDu+99x4MBgPOnj0rx+QuzxDUYrHAZrPJXEOHwwFd13Hnzh3cuXMH09PTMouR3CxUThZ91
HOggedwahXLzesp9pyKI5XivKzKW5NIJDA1NYXl5eWCOZBEZ+i6Lrl1Dj9h6unu3buSe0+lUsKlbrVasbq6KuFifX09MpkMvF4vstksxsbGcHBwgGQyienpadTU
1GBgYAD5fF4KWLFYDL29vZKz3NraQjAYlCEglZWV8Hq9glbY3NyUphCHwyEpst3dXeEMn5qawsbGBvr7+0/UMzwF3S4W1jZIE1GceqP3ztRGKe+8WI5zZnK5HN5
//30YjUaMjIxIvprRGVOHpN7gPFqXy4VcLoe7d+9icnISMzMzeP/99yUlR92mAVVHZ9J5cblccLvdqKqqKuCn4fmxuKgOtT7uWqjbJpNJmujm5uaEJoD3jRPO2P
hESgFSYu/u7uLevXvIZrMwmUxIpVLwer1Ip9OwWCwFuu12u7G+vo75+Xlsbm7i7NmzwjI5MzOD2tpaDA4OQtcPu22XlpaQSCRw5swZ2VB2d3cRDAaFp6myshLz8
/Oynra2tjA5OYmysjKhxuZ8B24SU1NTMsfgOPll0jL/CcBfHf38VwA+o7z+d7qu7+q6vgxgAcCFkz5I9aCP+1KNu8o9USo0Lc7Xn5SvLJV/NxoPB3WPjIxI7rim
pkYq5OThsFgs4vGweYmk/bFYDAsLCwgEAmhpaUFPTw8WFxdx7949RKNRmcCjVsSNRiP8fj86OjrQ29uL9vZ2OJ1OGbhNMqlS589FXlxA47Ux3wscDtL4xje+gZs
3b8p1qw1ZfB8HZLCoxRC0ra0Nra2tiMVi8Pl8GBsbg6ZpWFxcRCaTwfj4OACIAp89e1bmdXI+5CuvvAKn0ykFMa/Xi5aWFkxMTMDj8aChoQH5fF5C1IsXL8q0Jq
IM5ufnkc1mcfHiRQwPD0udI5FICJe41+staGB5TPmV6fbjCo0QeWWKUS407sVFUtWj5/dS6U1VysvLMTQ0hEwmI30PVqtVjk3qDc5K3dzclNQkh6TMz88jFAoJw
dji4iLu37+PaDQqHcNEUqmEbu3t7ejt7ZVBzyzEkjSsFICARl5NpVJo5JlPD4VC+OY3v4l3331XNjK1psTcvYpgoW6n02m0tLSgpaUFsVgMKysrGB0dhcFgEN0e
GxuTmpPP58PIyIgQvTGC/43f+A3RUep2c3MzxsbGZGi7pmmYmpqCyWTCxYsX0djYiMbGRtjtdlRUVMjmcFhiRYyMjAhNSDKZFNK1ubm5E3XqcY27DuD7mqbd1jT
t949eq9d1PQQAR9/rjl5vArCm/K//6LXih/L7mqbd0jTtljoE9zjhzsuuS+I7VY+2GFFQnJZRP0surAhGpi4O8qbX1NRI5TyZTIqHUlZWhnfeeQdra2tobGxEPp
+XAkllZSW6u7vFWPn9fkQiEaGzJRa4eCNiR57H40Fvby8uXLiAc+fOCZdMNBp9iF+7OAWlenO8Vt4n5hU5OIPj0egxU1jcdLlcAstjo9T4+Dg+//nPI5c7HChMi
Cd5sEdHR6U47PV6UVdXh5GRETidTmxubmJhYQGtra1obW2F2+2GxWLB/Pw8Dg4OcPXqVdTW1sJiscBkMkkn6rN

```
    "source": [
     "Q_down = 10\n",
     "\n",
     "X_jpeg = X.copy()\n",
     "X_jpeg = Q_down*np.round(X_jpeg/Q_down);\n",
     "\n",
     "plt.subplot(121).imshow(X, cmap=plt.cm.gray)\n",
     "plt.title('Original')\n",
     "plt.subplot(122).imshow(X_jpeg, cmap=plt.cm.gray)\n",
     "plt.title('Down-sampled')\n",
     "plt.show()"
    ]
   },
   {
    "cell_type": "markdown",
    "metadata": {},
    "source": [
     "Pentru fiecare bloc de $8\\times 8$ aplicÄ DCT Či cuantizare."
    ]
   },
   {
    "cell_type": "code",
    "execution_count": 9,
    "metadata": {},
    "outputs": [
     {
      "data": {
       "image/png":
"iVBORw0KGgoAAAANSUhEUgAAAWoAAADHCAYAAAAAwLRlnAAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjMuMywgaHR0cHM6Ly9tYXRwbG90bG
liLm9yZy/Il7ecAAAACXBIWXMAAAsTAAALEwEAmpwYAAAPC0lEQVR4nO3df2xd9XnH8c8HJ2GExDYKREkIaSiDFPbHAFlowAQRrIittGxTtVEGG5kqYFMRXbtRy
raWTNqmogoxuhWRpkVoBFEtQNUhoKtGHY2JIRKgQmAoiDkl4AyCsElIQn742R/3BhkT2/eG77nnufB+SZbiew7Pfa79+MPXx+ee44gQACCvw+puAAAwPYIaAJIj
qAEgOYIaAJIjqAEgOYIaAJIjqCtm+wbba0vv20KtsP2rJWoBqBdB3SbbV9h+xvZO21tt32a7f6r9I+IfIuKLrdRuZ1+g02wP2v6i7ZW2x23vsL3d9gu2VzX3Wd5
cJOyY9PGHE+oM2H7A9lu2R20/Z/vvbR9V36vLjaBug+2vSvqWpL+S1CfpNyR9QtJPbc85yP6zOtsh0DGvRcQ8Sb2Svibpe7ZPmbC9PyLmTfj4oSTZPkvSoKT/lv
SpiOiXdKGkfZJ+vZMvoJsQ1C2y3StptaRrIuLhiNgbEcOS/kCNsL7M9o2219u+y/bbkq5oPnbXhDp/bHuz7Tdt/63tYdu/1dz23r4TViZ/YvuXtrfZ/usJdc6w/
VhzRTJi+58P9j8LoErR8CNJb0k6ZYbdJekmSXdExD9GxP81a/wyIr4ZEYPVddrdCOrWnSXpVyTdN/HBiNgh6SFJn24+dLGk9ZL6Ja2buG9zxfFdSX8kabEaq/Jj
Z3je35S0QtL5kr5h++Tm4/sl/YWkoyWd2dz+5+2/LODQ2T7M9u+pMe/PzLDvkWrM6r0daO0jhaBu3dGStkXEvoNsG2lul6THIuJHETEeEbsm7fd5Sf8eEY9GxB5
J35A008VWVkfEroj4uaSfq/nrYURsioj/iYh9zZX97ZLOPbSXBrRtie1RSdskfVPS5RHxwoTt25q/7R34OFnSUWpkztYDO9m+qbn9Hdt/08kX0E04htq6bZKOtj
3rIGG9uLldkl6ZpsaSidsjYqftN2d43q0T/r1T0jxJsn2SpJslDUiaq8b3ctNMLwIo5LWIWDrN9qMn/5w0V9Tjavy8PC9JEXGdpOuah/zIoymwom7dY5LelfT7E
x9sDt9vS/rP5kPTrZBHJL033LaPkLTgEPu5TY1hPzEieiXdIMmHWAuoXES8I+lxTfoZwswI6hZFxJgaf0z8ju0Lbc+2vVzSv0naIulfWyizXtJnbZ/V/MPfah16
uM6X9LakHbY/JenPDrEO0EnXSfpT29fbXihJtpdKOr7etnIjqNsQETepsXL9thoh+bgahzLOj4h3W/jvn5V0jaR71Fhdb5f0uhor9Xb9paRLmzW+J+mHh1ADaFe
rF7AfnXQe9VckKSIelXSepHMk/aJ5nPthNU7Z+04F/X4kmBsH1Mf2PEmjahy++N+a2wGmZftJSX/XPB0PHcSKusNsf9b23Oax7W+rcUrTcL1dAdOz/WuSTpb0VN
29fBwR1J13saTXmh8nSrok+LUGidn+lqT/kPS1iNhcdz8fRxz6AIDkWFEDQHIENQAkV8k7gfr6+mLRokVVlEYX2759e5E6o6Oj2rlzZ8ff3LNgwYJYtmxZkVq7d
+8uUkeSDj/88GK1enp6itUq9f0+YHx8vFgtu9z47Nixo0idsbGxKee6kqBetGiR1qxZU0VpdLHBwcEidW6//fYiddd1bNmyYq9haGioSB1JOumkk4rV6u3tLVbr
kUceKVZLknbtmnzpnEM3Z065C01u2LChSJ0777xzym0c+gCA5AhqAEiOoAaA5AhqAEiupaBuXi3uBdsv2b6+6qaATmCu0S1mDGrbPZL+RY1rLp8i6QuTbmIJdB3
mGt2klRX1GZJeioiXm7ePukeN61UA3Yy5RtdoJaiP1ftvL7VFB7khq+0rbW+0vXFsbKxUf0BV2p7rN9+c6a5pQDVaCeqDvVPmA1dyiog1ETEQEQN9fX0fvjOgWm
3P9YIFh3rXNODDaSWot0g6bsLnS9W4RCfQzZhrdI1WgvoJSSfaPr55n79LJP242raAyjHX6BozXusjIvbZ/pKkn0jqkfSD5r3/gK7FXKObtHRRpoh4UNKDFfcCd
BRzjW7BOxMBIDmCGgCSI6gBIlIKbhywffv2YhdYL2nlypV1t4AuNjw8rFWrVhWptWfPniJ1JOnSSy8tVqvkz8jcuXOL1ZKkI444olitrHeLmQoragBIjqAGgOQI
agBIjqAGgOQIagBIjqAGgOQIagBIjqAGgOQIagBIjqAGgOQIagBIjqAGgOQIagBIjqAGgOQIagBIjqAGgOQquRXXyMiIbrzxxiK1St4aiFtx4cM
YHR3V/fffX6RWX19fkTpS2bmeNatcJPT39xerJUl79+4tVuutt94qVmtsbKxInf3790+5jRU1ACRHUANAcgQ1ACRHUANAcgQ1ACRHUANAcjMGte2ybjP/M9pDtZ2
1f24nGgKox2+gWrZw0uU/SVyPiSdvzJW2y/dOIeK7i3oCqMdvoCjOuqCNiJCKebP57u6QhScdW3RhQNWYb3aKttyHZXi7pNEmPH2TblZKuLNMW0FlTzTZzjQxaD
mrb8yTdK+nLEfH25O0RsUbSmua+UaxDoGLTzTZzjQxaOuvD9mw1BnldRNxXbUtA5zDb6AatnPVhSd+XNBQRN1ffEtAZzDa6RSsr6rMlXS7pPNtPNz9+p+K+gE5g
ttEVZjxGHRGPSnIHegE6itlGt+CdiQCQHEENAMkR1ACQXCW34lq8eLGuuuqqKkoDtTnqqKN0wQUX1N3GB5x66qnFai1cuLBYrdHR0WK1JGn37t3Fau3bt69YrfH
x8SJ1IqY+TZ8VNQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHKV3I
pr/vz5WrlyZZFag4ODReqUdu655xartXr16mK1JBX72pdWqq+77767SJ12HXPMMbr66quL1BoeHi5SR5IWLVpUrNaOHTuX1a5uFqyZEmxWqeff
nqROg899NCU21hRA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQA0ByBDUAJEdQ
pOskjU+1g+0rbW+0vXFsbKxEb0DVbhFzjS4wY1DbvkjS6xGxabr9ImJNRAxExEBfX1+xBoEqMNfoJq2sqM+W9Dnbw5LukXSe7bsq7QqoHnONrjFjUEfE1yNiaUQ
sl3SJpEci4rLKOwMqxFyjm3AeNQAk19Z1AyNiUNJgJZ0ANWGukR0ragBIjqAGgOQIagBIjqAGgOQquWfix8GGDRuK1cp6j0O8X09Pj/r7+4vU2r9/f5E6kvTqq6
8Wq7Vr165itTZv3lysliSdcMIJxWqtWLGiWK05c+YUqXPrrbdOuY0VNQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIE
NQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAk
R1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAkR1ADQHIENQAk
VtjdGxEAtTz4N+mpP1r7qlPVrQl/tydQXhz4AIDmCGgCSqzOo19T43NOhr/Zk7atOWb8m9NWeNH3VdowaANAaDn0AQHK1BLXtC22/YPsl29fX0cNkto+z/TPbQ7
aftX1t3T0dYLvH9lO2H6i7l4ls99teb/v55tftzLp7qhNz3b6Ms51xrjt+6MN2j6RfSPq0pC2SnpD0hX3ydWhYh4rqONfLCvxZIWR8STtudL2iTpd+vuS5Jsf0XSgKTei
Lio7n4OsH2npP+KiLW250iaGxGjNbdVC+b60GSc7YxzXceK+gxJL0XEyxGxR9I9i6iuoY/3iYiRiHiy+e/tkoYkHVtvV5LtpZI+I2lt3b1mZLtX0jmSvi9E6Gn
7mGuGXPdpoyznXWu6wjqYyW9MuHzLUoyOAfYXi7pNEmP19yKJN0i6TpJ4zX3MdknJb0h6Y7mr65rbR9Zd1M1Yq7bd4vyzXbKua4jqH2Qx9KcemJ7nqR7JX05It6
uuZeLJL0eEZvq7GMKsySdLum2iuShyXrQlz3V4/WWc75VzXEdRbJB034fOlk16roY8PsD1bjWFeFxH31d2PpLMlfc72sBq/Sp9n+656W3rPFklbIuLA6m
y9GgP+ccVctyfrbKec6zqC+glJJ9o+vnmg/hJJP66hj/exbTWOSw1FxM119yNJEfH1iFgaEcvV+Do9EhGX1dyWJCkitkp6xfaK5lPnS0rxB6qaMNdtyDrbWed6V
qefMCL22f6SpJ9I6pH0g4h4/qzki6X9IzTp5uP3RARD9bXUnrXSFrXDKaXJa2quZ/aMNcfKenmmncmAkByvDMRAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIa
OYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIaAJIjqAEgOYIa
OIIaAJIjqAEgOYIaAJIjqCtm+wbba0vv20KtsP2rJWoBqBdB3SbbV9h+xvZO21tt32a7f6r9I+IfIuKLrdRuZ1+g02wP2v6i7ZW2x23vsL3d9gu2VzX3Wd5
cJOyY9PGHE+oM2H7A9lu2R20/Z/vvbR9V36vLjaBug+2vSvqWpL+S1CfpNyR9QtJPbc85yP6zOtsh0DGvRcQ8Sb2Svibpe7ZPmbC9PyLmTfj4oSTZPkvSoKT/lv
SpiOiXdKGkfZJ+vZMvoJsQ1C2y3StptaRrIuLhiNgbEcOS/kCNsL7M9o2219u+y/bbkq5oPnbXhDp/bHuz7Tdt/08kX0E04htq6bZKOtj
```

```
      "output_type": "display_data"
     },
     {
      "name": "stdout",
      "output_type": "stream",
      "text": [
       "Componente ĂŽn frecvenČ□Ă□:64\n",
       "Componente ĂŽn frecvenČ□Ă□ dupĂ□ cuantizare: 14\n"
      ]
     }
    ],
    "source": [
     "Q_jpeg = [[16, 11, 10, 16, 24, 40, 51, 61],\n",
     "          [12, 12, 14, 19, 26, 28, 60, 55],\n",
     "          [14, 13, 16, 24, 40, 57, 69, 56],\n",
     "          [14, 17, 22, 29, 51, 87, 80, 62],\n",
     "          [18, 22, 37, 56, 68, 109, 103, 77],\n",
     "          [24, 35, 55, 64, 81, 104, 113, 92],\n",
     "          [49, 64, 78, 87, 103, 121, 120, 101],\n",
     "          [72, 92, 95, 98, 112, 100, 103, 99]]\n",
     "\n",
     "# Encoding\n",
     "x = X[:8, :8]\n",
     "y = dctn(x)\n",
     "y_jpeg = Q_jpeg*np.round(y/Q_jpeg)\n",
     "\n",
     "# Decoding\n",
     "x_jpeg = idctn(y_jpeg)\n",
     "\n",
     "# Results\n",
     "y_nnz = np.count_nonzero(y)\n",
     "y_jpeg_nnz = np.count_nonzero(y_jpeg)\n",
     "\n",
     "plt.subplot(121).imshow(x, cmap=plt.cm.gray)\n",
     "plt.title('Original')\n",
     "plt.subplot(122).imshow(x_jpeg, cmap=plt.cm.gray)\n",
     "plt.title('JPEG')\n",
     "plt.show()\n",
     "\n",
     "print('Componente ĂŽn frecvenČ□Ă□:' + str(y_nnz) + \n",
     "      '\\nComponente ĂŽn frecvenČ□Ă□ dupĂ□ cuantizare: ' + str(y_jpeg_nnz))"
    ]
   },
   {
    "cell_type": "markdown",
    "metadata": {},
    "source": [
     "# Sarcini\n",
     "\n",
     "1. [6p] CompletaČ□i algoritmul JPEG incluzĂ˘nd toate blocurile din imagine.\n",
     "\n",
     "2. [4p] ExtindeČ□i la imagini color (incluzĂ˘nd transformarea din RGB ĂŽn Y'CbCr). ExemplificaČ□i pe `scipy.misc.face` folositĂ□ ĂŽn tema anterioarĂ□.\n",
     "\n",
     "3. [6p] ExtindeČ□i algoritmul pentru compresia imaginii pĂ˘nĂ□ la un prag MSE impus de utilizator.\n",
     "\n",
     "4. [4p] ExtindeČ□i algoritmul pentru compresie video. DemonstraČ□i pe un clip scurt din care luaČ□i fiecare cadru Č□i ĂŽl trataČ□i ca pe o imagine."
    ]
   }
  ],
  "metadata": {
   "kernelspec": {
    "display_name": "Python 3",
    "language": "python",
    "name": "python3"
   },
   "language_info": {
    "codemirror_mode": {
     "name": "ipython",
     "version": 3
    },
    "file_extension": ".py",
    "mimetype": "text/x-python",
    "name": "python",
    "nbconvert_exporter": "python",
    "pygments_lexer": "ipython3",
    "version": "3.9.1"
   }
```

```
  },
  "nbformat": 4,
  "nbformat_minor": 4
}
```