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    "import matplotlib.pyplot as plt\n",
    "from IPython.display import display, Markdown, Latex\n",
    "plt.rcParams['figure.figsize'] = [12, 9]\n",
    "plt.rcParams.update({'font.size': 18})\n",
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    "## Constantes"
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    "q
                       # [C] Unidad de carga eléctrica\n",
           = 1.6e-19
    "k
           = 1.38e-23 # [J/K] Constante de Boltzmann\n",
    "eps0 = 8.85e-14 # [F/cm] Permitividad eléctrica en el vacío\n",
           = 3e10
                       # [cm/s] velocidad de la luz en el vacío\n",
           = 6.623e-34 \# [J/s] Constante de Planck\n",
    "h
    "m0
                      # [kg] masa del electrón en reposo\n",
           = 9.1e-31
    "Vtha = k*300/q
                       # [V] voltaje térmico @ 300 K"
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    "### Constantes Silicio a 300 K"
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```

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           = 28.09
                                             # Peso atómico \n",
    "NSi
           = 5e22
                                             # [m^3] Átomos por unidad de volumen\n",
    "rhoSi = 2.33
                                             # [g/cm^3] densidad\n",
    "EgSi = 1.12
                                             # [eV] energía de banda prohibida\n",
          = 1e10
    "niSi
                                             # [m^3] concentración intrínseca\n",
    "munSi = 1430; mupSi = 480
                                             # [cm^2/Vs] movilidad para ni >> Nd,a\n";
    "ErupSi = 3e5
                                             # [V/cm] Campo eléctrico para ruptura dieléctrica\n",
    "kapaSi = 1.5
                                             # [W/cm°C] conductividad térmica\n",
    "CpSi = 0.7
                                             # [J/gK] Calor específico \n",
    "DthSi = 0.87
                                             # [cm^2/s] Difusividad térmica\n"
    "epsSi = 11.7*eps0
                                             # [F/cm] Permitividad eléctrica\n",
    "nSi
           = 3.44
                                             # indice de refracción \n",
    "chiSi = 4.05
                                             # [eV] Afinidad electrónica\n",
    "men
           = 0.867*m0; meng = 1.08*m0*1.07 # [kg] masa efectiva electrones para cálculo en conductividad
y densidad, respectivamente.\n",
            = 1.156*m0; mepg = 0.81*m0*1.07 # [kg] masa efectiva huecos para cálculo en conductividad y
densidad, respectivamente.
  ]
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            = 60.08
                                   # Peso molecular \n",
    "PSiO2
             = 2.3e22
                                   # [cm^3] Átomos por unidad de volumen\n",
    "NSiO2
    "rhoSiO2 = 2.27
                                   # [g/cm^3] densidad\n",
    "EgSiO2 = 3.9
                                  # [eV] energía de banda prohibida\n",
    "munSiO2 = 20; mupSiO2 = 1e-8 \# [cm^2/Vs] \n",
    "ErupSiO2 = 1e7
                                   # [V/cm] Campo eléctrico para ruptura dieléctrica (es mayor a este
valor!!!)\n",
    "kapaSiO2 = 0.014
                                   # [W/cm°C] conductividad térmica\n",
    "CpSiO2 = 1.0
                                   # [J/gK] Calor específico \n",
    "DthSi02 = 0.006
                                  # [cm^2/s] Difusividad térmica\n"
    "epsSiO2 = 3.9*epsO
                                  # [F/cm] Permitividad eléctrica\n",
    "nSiO2
             = 1.46
                                  # indice de refracción \n",
    "chiSiO2 = 1.0
                                   # [eV] Afinidad electrónica"
   1
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    "Na
           = 5e16
                     # Dopaje aceptor de sustrato\n",
    "tox
            = 20e-7 # Espesor de Óxido [cm]\n",
    "phi_Al = 4.10  # Función trabajo del Aluminio [eV]\n",
    "T
           = 300
                     # Temperatura en Kelvin\n",
    "Vth
            = k*T/q # [V] voltaje térmico\n",
    "Cox
            = epsSiO2/tox\n",
```

```
mu_eff = 800
                      # cm2/(Vs)\n"
  "WoverL = 1"
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  "Nc = 2*(2*np.pi*men*k*T/h**2)**(3/2) * 1e-6\n",
  "Nv = 2*(2*np.pi*mep*k*T/h**2)**(3/2) * 1e-6\n",
  "ni_ab = np.sqrt(Nc*Nv)*np.exp(-EgSi*q/(2*k*T))\n"
  "ni = ni ab"
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                  = -0.399 \text{ V} \text{n}
     "psi_B
    "-2 × psi_B = 0.798 V\n",
"VFB = -0.909 V\n",
     "gamma
                  = 0.746 \\sqrt{V}\n",
                  = 0.556 V\n",
     "gamma^2
    "VT
                  = 0.555 V n",
     "m
                  = 1.417\n"
    1
  }
 ],
"source": [
  "psi_B = -Vtha*np.log(Na/ni_ab)\n",
  "phi_s = chiSi + EgSi/2 - psi_B\n",
   "psi_bi = phi_s - phi_Al\n",
  "VFB
         = -psi_bi\n",
  "gamma = np.sqrt(2*q*Na*epsSi)/Cox\n",
           = VFB - 2*psi_B + gamma*np.sqrt(-2*psi_B)\n",
  "m = 1+gamma/2/np.sqrt(-2*psi_B);\n",
  "\n",
  "\n",
  "print('psi_B = ',\"%.3g\" % psi_B,'V')\n",
"print('-2 x psi_B = ',\"%.3g\" % (-2*psi_B),'V')\n",
  "print('VFB
                        = ',\"%.3g\" % VFB,'V')\n",
                        - ',\"%.3g\" % gamma,'\\sqrt{V}')\n",
= ',\"%.3g\" % gamma**2,'V')\n",
= ',\"%.3g\" % VT,'V')\n",
= ',\"%.4g\" % m)"
  "print('gamma
  "print('gamma^2
"print('VT
  "print('m
 ]
},
```

```
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             "$$ {Q'_
                                    _s}^2 = {C'_{ox}}^2(V_{gs}-V_{FB}-\\psi_s)^2 $$\n"
             \label{left((-)+} = (\x)+\x^{(\x)+\x^{(\x)}-1\x^{(\x)+\n''}, and the proof of the
                                             \frac{n_i^2}{N_a^2}\\left(\exp\\left(-\frac{V}\right)\right)
{V_{th}}\\right)\\left(\\exp\\left(\\frac{\\psi_s}{V_{th}}\\right)-1\\right)-\\frac{\\psi_s}
{V_{th}}\ right)\\right] $$\n",
              "$$ \\Rightarrow f(\psi_s) = \{Q'_s\}^2 - \{C'_\{ox\}\}^2(V_{gs}-V_{FB}-\psi_s)^2 = \emptyset \n",
             "$$ \ \frac{df}{d\psi_s} = \frac{\alpha}{V_{th}}\left[\n']
                                            \\left(1-\left(1-\right)\right)\
                                            \frac{n_i^2}{N_a^2}\left(\left(\exp\left(-\frac{V}{U_{th}}\right)\right)\left(\frac{v_{th}}\right)}
{V_{th}}\\right)-1\\right)\\right]\n"
                                            +2{C' \{ox\}}^2(V \{gs\}-V \{FB\}-\psi s)$$
         ]
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            "def calc_psi_s(Vgs = 1,V = 0,psi_so = .6,error_max = 1e-4,VFB = 0,Cox = 1e-9,Na = 1e15,ni = 1e10,eps =
11.7*88.5e-15,Vth = .0259):\n",
                            # q = 1.6e-19; n"
                            alpha = 2*q*eps*Vth*Na;\n",
                            psi_s = psi_so;\n",
                            error = 1; n'',
                            while error > error max:\n",
                                         Qs2 = alpha*((np.exp(-psi_s/Vth)+psi_s/Vth-1)+ni**2/Na**2*(np.exp(-V/Vth)*)
(np.exp(psi_s/Vth)-1)-psi_s/Vth));\n",
                                         f = Qs2 - Cox**2 * (Vgs - VFB - psi_s)**2;\n"
                                         df = alpha/Vth*(1-np.exp(-psi_s/Vth)+ni**2/Na**2*(np.exp(-V/Vth)*np.exp(psi_s/Vth)-1)) +
2*Cox**2*(Vgs - VFB - psi_s);\n",
                                         psi_s2 = psi_s - f/df;\n",
                                         error = np.abs(psi_s2 - psi_s)/psi_s2;\n",
                                         psis = psis2;\n",
                             return psi_s'
         ]
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             "$I D = \mathbb{W}_{L}\\left( \mathbb{W}_{L} \right)
             " C'_{ox}\\\left(V_{GS} - V_{FB} + V_{th}\right)\psi_s - \left(1\}_{2}C'_{ox} \right) - \left(1\}_{2}C'_{ox} \right)
{3}\\sqrt{2\ensuremath{2}\ensuremath{n_s q N_a} \n'',}
                     +V_{th}\\sqrt{2\\epsilon_s q N_a\\psi_s}\n"
             " \\right\\}\\right|_{\\psi_{s,s}}^{\\psi_{s,d}}$$\n"
             "$I_D = \mathbb{C'}_{ox} \frac{W}{L} (i_{dd} - i_{ds})
             \fint{dx} = \left(V_{GS} - V_{FB} + V_{th}\right)\psi_{sx} - \left(1\}_{2} \right) - \left(sx\right)^2 
\label{lem:condition} $$\{3\}\geq_{sx}^{3/2}+V_{th}\simeq_{sqrt}(\psi_{sx})$$
         ]
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            "def calc id(Vgs = 1, psi ss = .6, psi sd = .3,VFB = 0,Cox = 1e-9, gamma = 0.5, Vth = .0259, mu = 800,
WoverL = 1):\n"
                            idd = (Vgs - VFB + Vth)*psi_sd - .5*psi_sd**2 - 2/3 * gamma * psi_sd**1.5 +
```

```
Vth*gamma*np.sqrt(psi_sd);\n"
        ids = (Vgs - VFB + Vth)*psi_ss - .5*psi_ss**2 - 2/3 * gamma * psi_ss**1.5 +
Vth*gamma*np.sqrt(psi_ss);\n",
        return mu*Cox*WoverL*(idd-ids)"
  ]
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    "Vgs = np.array([1, 2.5, 4, 5.5])
                                        # [V]\n",
    "Vdso = 0;\n",
    "Vdsf = 5;\n"
   "NVds = 5001;\n",
   "dVds = (Vdsf-Vdso)/(NVds-1);\n"
   "Vds = np.linspace(Vdso,Vdsf,NVds);
                                        # [V]"
  },
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    "psi_ss = np.zeros(Vgs.size);\n",
    "psi_sd = np.zeros((Vds.size,Vgs.size));\n",
   "Id_num = np.zeros((Vds.size,Vgs.size));\n",
    "psi_so = np.linspace(-2*psi_B,-psi_B,5001)\n",
   "\n",
   "j=0;\n"
   "for Vg in Vgs:\n",
        psi_ss[j] = calc_psi_s(Vg,0,-2*psi_B,1e-6,VFB,Cox,Na,ni,epsSi,Vth);\n",
        i=0:\n",
        for V in Vds:\n",
            Id_num[i,j] = calc_id(Vg,psi_ss[j], psi_sd[i,j],VFB,Cox,gamma,Vth,mu_eff,WoverL)\n",
            i += 1;\n",
        j += 1;"
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cdnZhIbWrFX51FNPAdQ7z/hSHD16lJiYGLuPP3LkCNHR0XYfb7VamT17Nh4eHowdO9au5/Tr148xY8bQsWNHCgsLWb16NW+99RabNm1iy5Yt tW52jImJYfjw4axZs4b09HQiIiK0x5YuXYqXl1eDU01E02WxWBo+SDRpkrExSM7nV1pYyfcf70bo7jytzcvHzLC7u9IpQX8rc9RHjzlLgX2 2medOQ7CXO3+/m3nuVVZ7nTOPe/jw4QCsW7eO1atX8/jjjxMXF+eQIZ4tPDycdevWXdDxF+KJJ55g27ZtzJs3jy5dutj1nMTExFp/v/fee+ nZsyfTpk1jwYIFTJs2rdbjEyZMYP369SxbtoznnnsOqF7RZNu2bdx22220bNnygsYshBBC6MXR3b1898EeygortbawmCBGT4gjqKXcvH+pF FVVXT0Gh0pISFAbWq51z549dOvW7dwHLqHAdrpLKLDXrVvH6NGjefPNN3nsscewWq307t2bzMxM9u/fT3BwsAMH6nzTp09nzpw5PPjgg/zz n/+8pL6qqqoICAigT58+bNmypdZj5eXltG7dmrCwMPbu3QvA5MmTee2111i9ejXXXHPNJb32H9X7fSkanc1m0+2Ny8IxJGNjkJzPZbXaSFx 1mF/XHq3VHn9VW/rd0B6zuel9vVyVs6Io21VVTajrMbmCbQB/XEnkvffeIyUlhXfffddpxbXVaiU7O9vu40NDQzGbzQ0eN3PmTObMmcP48e N59913L2WIQPUSfREREeTk5JzzmI+PD2PHjmXhwoVs2bKF/v37s2zZMqKiohg9evQlv7bQr9TUVO28Ee5JMjYGybm2guwy1i5O5WRaodbmG +TFqPtiaRPbwoUjuzR6zFkK7LNdwlXioqIiAgP1eSNAeHg4oaGhpKSkUFBQwIsvvkjv3r154IEH6jz+nXfe4Y033iA705sHHniA1NRUrr32  $\label{lem:whs55BEymzN540kn2LBhAyUlJbRt25aVK1fStWvXWn0c03bM4X0wZ82axaxZs7j33ntZtGiRQ+5oLi8v5/jx4wwYMKD0xydMmMDChQtZunQuller who the standard of the standard$ peX15ZGV1MW3aNLt+GRBNV25urquHIJxMMjYGybnGgV+y2PjJXirLrVpb29gWjLgvFr8gr/M8U//0mLMU2AbRo0cPtm/fzuzZs8nOzubLL7 +s8+0U119/nUWLFrFq1So6d+7MpEmT+06775g6dSpQXXDGx8fz4YcfYjabSU5OrnNzGkfPwZ49ezYzZ87knnvuYenSpfV+FFRVVcWhQ4fw8 /Ojbdu2Wntubi4hISHnHD99+nQsFgvXX399nf3Fx8fTu3dvli9fzrFjx1AUhfHjx9v9voQQQghXqqqw8uPy/ezZkqG1mUwKA27qQO+RbVB0 tCOjO5E52A5isVjw8NDv7ytPPPEECxYswGw2M2bMGD799NNzjikoKCAqKor//e9/DBo0CIAtW7YwePBgCgoKCAwMpHPnztx6661MnTq10a7 Yv/322zz66K00bduWl1566Zzi0iwsjFGjRgGQlpZGTEwMQ4cOZePGjdoxTz75JNu2bWP48OG0bduW4uJiVq9ezYYNG+jfvz8bNmyod0fGt9 56i8ceewzgnH4dSeZg60d+fn6TuzdBXBjJ2BiMnnP08WLWLkohP7NUawtq6cPoid0Ji9bf5iwXy1U5yxzsRmC1WnVdYJ+Zm+Tt7c0rr7xS5 zEbN26kdevWWnEN1Vd+27dvrxXTH330EXPnziU6OpqBAwcyb948bTt2Z/nll1+A6qX/xo0bd87jQ4cO1Qrs+gwbNozdu3fz4Ycfkpubi9ls 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YmBi7jz9y5AjR0dHnffzFF19kxowZREdH17skT0xMDMOHD2fNmjWkp6cTERGhPbZ06VK8vLy4++677R7XH+k5Z+E4cXFxrh6CcDLJ2Bga02 dLlZUtKw7y26YTWpuiQN/rYuhzTTQmWX7PKfR4PuuuwD7tR+C9P7RVOftFe3zYw9kvcdF+G/fbRT/37HnYw4cPB2DdunWsXr2axx9/3Cnfm OHh4axbt+6Cjj+f//u//yMmJkb7peB8JkyYwPr161m2bBnPPfccAHv37mXbtm3cdttttGzZ0u5x/VFxcbEub6YQjvXDDz8wbNgwVw9DOJFk bAyNmXNeRg1rF6WSe6JYawsI9mbUhDgi0jZv1DEY1R7PZ70W2IdVVf3Y1YNwF38ssK1WK0899RQtW7Zk5syZTn1NHx8fRo4c6ZC+Pv74Y9a uXcsPP/yAp6dng8ffcsstNG/enKVLl2oF9pIlSwC4//77HTImIYQQAqqXf92zJYMfl+/HUmnT2tv3DmX4PV3x8W/43y3hfvRaYKMoihfgpa pqcYMHi/P640oi7733HikpKbz77rsEBwc75TWtVivZ2dl2Hx8aGlrn/OaKigqeeuop/vSnPxEeHs7BgwcBOHGi+uO3goICDh48SMuWLWnev DlQXdyPHTuWhQsXsmXLFvr378+yZcuIiopi9OjRl/7mhNvz8NDtj0bhIJKxMTg754oyCxs/2cvBpJNam9nDxOAxHYm7IlKW32skejyfFVWt b8qza5yeg10C+ABmIBtYDrygqmpBQ89PSEhQk5KSznvMnj176NatmwNG23S0atWKTp06sXr1ajp16kRkZCTbt2+v88bCd955hzfeeIPs7Gw eeOABUlNTufbaa3nkkUfIzMzkiSeeYMOGDZSUlNC2bVtWrlxJ165da/WRlpbmkDnYp06dsuuXgFdffZVnnnlG+3tycjJ9+vRh4sSJ3HjjjV x//fVMmzaNOXPm2D2mxmbE70shhGiqMo8UsG5xKoU55VpbcLgfVz3QnZBI3d4yJhxIUZTtqqom1PWY/kp++Bn4AjgIBAF/Ah4FhiqKcrler-Abdarder-A2iXlJTg76/f9Sx790jB9u3bmT17NtnZ2Xz55Zd1Ftevv/46ixYtYtWqVXTu3JlJkybx3XffMXXqVKB6fnN8fDwffvghZr0Z50Tk0jencdQc bH9/f7744otz2rOzs5k0aRJXX301EyZM0DbUOSM+Pp7evXuzfPlyjh07hqIojB8/3u7x1EfvOQvHSE5OJj4+3tXDEE4kGRuDM3JWbSq/rjt K4qrD2Gw1FyljB0cw+PZOeHrJalONTY/ns+4KbFVV+/+h6SNFUXYBc4G/nP6zFkVRHgQeBIiIiGDjxo1A9daZgYGB2gLkISEhxMXFUV5eTl FREVC9+09JSQk2W/W8KT8/P6qqqqiqqr6n0tvbG0VRKC+v/g3Vw8MDHx8fiouLz7w2AQEBWCwWrU9/f38qKyvP24e3tzclJSW1+iguLubMJ wr+/v5UVFRgsVQv8ePj440qq1RUVC9U7+npiZeX19aHyWTC39+/Vh8BAQGU15djsVjo0qUL69evZ8GCBdx666307t2b8vJyPD09KS0tBaCooline wrapper and the supplies of the supplies ofqIiZM2eycuVK2rRpQ11ZGePGjWPRokW0b9+eoqIiDhw4QGxsLLm5uQQGBtKrVy88PDy09242m7WvYf/+/bWvcWlpKVarVfsaWywWbTMYLy8 vzGZzrT58fX21r/FVV111Tk4nT1Z/HNemTRuuuuoqvL29qaqqqvU1vv/++3n88cdZs2YNQ4YMoUOHDrX6uJicVFV1Wk7l5eVs3LiR7t27U1 FRwYEDB7T3GBYWxp1PZoKCgoiPj2fz5s3a615xxRWkpqaSm5sLQK9evSgqKuLw4cMAREdH06JFC5KTkwEIDg6mV69ebNq0CVVVURSFoUOHs nPnTvLz84HqX1Ly8vK0FVvq059++0EH7es1ePBgkp0TKSwsBCAhIYGsrCy0HTsGQKdOnfD29tamK7Vq1YrOnTuzefNmLY0BAweSlJSk5d+/ f3+OHz+uTQvq0qULZrOZ3bt3A9W/nMXExLB161ageqWX/v37k5iYqG0MNHDgQI4cOUJmZiYAsbGxWK1W9u3bB0BkZCRRUVEkJiYCaOfE1q1 btSwHDx7M/v37te89ycn10QUEBJCQkHBROaWnp1NYWCg56TynSz2f8vPztZrAETkF+gRzfJuN43urjwfw8vUgepAXSstMftqSKTm54HyqrK wkPz+/0c+n81JVVff/AZ5ABbCloWP790mjNmT37t0NHnOhCgsLHd6nIy1atEgFVD8/P/Xo0aN1HvPVV1+pnTp1qtX29ddfqx06dND+vnXrV vW6665TW7RooV577bXqzp07nTru+hw5ckQF1EceeaTeY/Ly81QfHx8VUD/66COHvK4zc3bG96W40Bs2bHD1EISTScbG4Micf0/JURc/84P6 1kPfa/998fIvakF2qcNeQ1wcV53PQJJaTz2quznY9VEU5QhQpapq5/Md56o52FartclvQrJo0SLef/997bdZqN64paioiBUrVtQ6tqysjIc eeojc3Fy+/fbbxh6qyzgzZ5mDrR/FxcUEBMgcSncmGRuDI3K2WmwkrjrMr+uO1jQqEH9VO/pdH4PZLDsyupqrzufzzcFuEt8ViqL4AFFAlq vHUp8z0wyasu7du7Nz506SkpKoqKhg4cKFfPzxx/Tu3RuAlStXsmfPHmw2GyUlJWRlZdGnTx/XDrqRuUPOomFZWbr9USMcRDI2hkvNuSC7l  ${\tt JWvbq9VXPsFeXHDX3oz8KYOU1zrhB7PZ119ZyiKUt9ely9RPV/8m0YczgVxh8JrwIABPPnkk4waNUqbcx0dHU2/fv0A2LJ1C6NHjyYwMJD4} \\$ +Hguu+wypk+f7uJRNy53yFk07MycPOG+JGNjuJSc9/+SyfK5v3Dy9yKtrW1cCHe80I82XVs4YnjCQfR4PuvtJscXFEUZAGwAjgIBVK8iMhx IBP7hwrEZwvz585k/fz4Au3btYs6c0Qwd0hSA1157jddee82VwxNCCCGcqqrCyg/L97N3S4bWZjIrDLy5A72ubIMi250L0+itwN4IxALjgB DAChwApgFvqKpaXv9TXcvb29vVQ7hkiYmJtGjRgo4d07Jr1y7uuusuZs6c6RbvzVHka2EMnTp1cvUQhJNJxsZwoTlnHyti7aJUTmWVam1Bo b5cNTGOVu2CHD084SB6PJ91VWCrqroKW0XqcVwMd9it6bfffmP690kUFRXRtm1bHnnkESZNmuTqYemKO+QsGia/SLk/ydgY7M1ZVVV+23ic n748iM1Ss/hD535hDP1zF7x8dVUuiT/Q4/msqznYTdmZtZObsokTJ5KRkUFxcTG7d+/mkUcekYLyD9whZ9GwM+ugCvclGRuDPTmXF1ex+p3 f+HH5Aa249vA2M+K+boy6P06K6yZAj+ezfNcIIYQQwpB07M9n3ZLdlJyq0NpatgngqondaR7m58KRiaZOCmwH8fCQL6URSM7G0KpVK1cPQT iZZGwM9eVss9r4ZXUa21encfZ2ID2vjOLymzti9pQP+JsSPZ7PUi04iI+Pj6uHIBqB5GwMnTufdz8r4QYkY2OoK+eivHLWLUk142CB1ubj7 8mIcd2I7tmyMYcnHESP57P8iuYgdu1LL5o8ydkYNm/e70ohCCeTjI3hjzkf3pHN8jk/1yquIzs3544X+klx3YTp8XyWK9hCCCGEcGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWK9hCCCGGecGuWKis/1944X+klx3YTp8XyWWM/44X+klx3YTp8XyWWM/44X+klx3YTp8XyWWM/44X+klx3YTp8XyWWM/44X+klx3YTp8XyWWM/44X+klx4XY+klx4XX+klx4XY+klx4XY+klx4XY+rThIyqYTWptiUuh3XQzxV7fDJGtbCweTAttBZLUNY5CcjUGPSz4Jx5KMjcHb25u8jBLWLkoh90SJ1h7QwpvR98fRumNz1w100Iwez2cpsB0  $\verb+kiCDA1UMQjUByNoaBAwe6egjCySRj96eqKs2s7fhi3i9Yqmxae/vLQhl+d1d8/D1d0DrhSHo8n2U0to0UlJQ0fJBo8iRnY0hKSnL1EISTScallendered and the state of the state$ buraLMwtrFqWz4eK9WXJs9TQwd24WrH+wuxbWb0eP5LFewHcRmszV8kGjyJGdjkJtZ3Z9k7L4yDp1i3aIUivIrtbbmzU1ccblCc8s+ir/fg 5Z6aAWVdukiB7Y78/f1dPQTRCCRnY+jfv7+rhyCcTDJumtTKSop/+omi//2P4i1bsGbnAFDhFcTurveS36qbdqyHpZSu+/5Fq+xfXTVcYWB SYDtIZWWlbEJiAJKzMRw/fpxOnTq5ehjCiSTjpqV8/37y//UvClf/F1thYa3HclvEsrvrvVR5BWptzYrS6JW7Gg//Enxa98Tk5YXi44Pi4Q  $\label{lem:emegkkgdwhlkq/24yndsmmoSioiI8IyNdPYxapMB2kkqqkl0WXjNmzOCll15iy5Yt9d5la7FY6N6908ePH2fv3r1E6egjljPqWx7P39/f7} \\$ rmU9vYxZswYVqxYwa+//krv3r1rHXsmZ1VVad++Pfn5+WRkZODr62vfGxFNwokTJ6T4cnOSsf6pNhvF69eTt+xjShMTz3ncppg50vU2fg+7 olZ7/MhI+t08DLP5fjZu3MiwYcMaZ8DCZTZu3EjXhARXD6MWKbDdXM+ePQFISUmpt8B+++232bdvH3PmzNFlcX3GkCFDePDBB2u1eXpe2J3 g9vQxYcIEVqxYwdKlS1mwYEGd/WzYsIG0tDQeeughKa6FEMKBVKuVojVryHnnHSoOHDzncc+ICEyjbuKXs17knLRo7X5BXoy8P5Y2XVs05n CFqJMU2A6ix0XOAXr06AFUF9h1ycvLY/bs2cTExPD000835tAuWPv27bn77rud3sfo0aNp06YNn3zyCa+++ipeXl7aY2dyXrp0KVBdjAv30 6VLF1cPQTiZZKw/qs1G4er/kvP001Qe01T7Qb0ZwJEjCR47lu00Zf2n+6gqrymu23UPYcS4bvgGetV6muRsDHrMWdbBdhC97vDXsWNHfHx8 6i2wZ86cSV5eHq+//roup7j8UWV15SUvr9VQHyaTifvuu4/c3Fy+/vrrWo8pikJhYSErV66ke/fu9O3b95LGIvTJbDY3fJBo0iRjfSnZupU jt95G+jPP1CquTX5+hDwwkY7ff0erv77Gtr0BfLd0N1Xl1urHzQqDbuvItZN6nlNcg+RsFHrMWQpsBykvL3f1EOpkNpuJjY2ts8Det28f77 QThZJKxPpTv38/RBx/k6Pj7qdizR2s3BQQQ8n8P0+H772j19NOcqvLni/lJ7N2aqR3TLNSXW5/tQ++RbVFMdV/kkpyNQY85yxQRA+jZsyfJ yclkZ2cTGhqqtT/11FMA9c4zvhRHjx4lJibG7uOPHDlCdHR0vY/369ePMWPG0LFjRwoLC1m9ejVvvfUWmzZtYsuWLXZtYX4hfcTExDB8+HD  $\label{lem:wrsum} {\tt WrFlDeno6ERER2mNLly7Fy8vrkqerCCGEUVlycshe8CanvvwSzrrAovj400K+cYSMH4+5WTNUVWXn+mNsWXkQm6Vm85f0/cMY+ucuePlIGS} \\ {\tt WrFlDeno6ERER2mNLly7Fy8vrkqerCCGEUVlycshe8CanvvwSyrrAovj400K+cYSMH4+5WTNUVWXn+mNsWXkQm6Vm85f0/cMY+ucuePlIGS} \\ {\tt WrFlDeno6ERER2mNLly7Fy8vrkqerCCGEUVlycshe8CanvvwSyrrAovj400K+cYSMH4+5WTNUVWXn+mNsWXkQm6Vm85f0/cMY+ucuePlIGS} \\ {\tt WrFlDeno6ERER2mNLly7Fy8vrkqerCOGEUVlycshe8CanvvwSyrrAovj400K+cYSMH4+5WTNUVWXn+mNsWXkQm6Vm85f0/cMY+ucuePlIGS} \\ {\tt WrFlDeno6ERER2mNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic WrFloreNTMNLly7Fy8vrkqerCompartic 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7BUmHVHo/u2ZIR93bDJ8Czcd7UBXL3jEU1ydkY9JjzBc3BVhTFg+or1e0Bq6gu0E8B/6J63vWvThjjBXHVHGwhhGgKin/cTPqUKVhzcrQ27 06diHjtNXy6dAbAarPy1cGveHvH22SXZdd6fu/Q3vxfr/9jYMRAqsqtbPp0H/t/rrkp0uShM0jWTvQYFnlJNyEKIYTenW80tl1XsBVF6Ul1 UX0XEHK6eQPVV6tXqqpa4YiBNmWJiYn079/f1cMQTiY5G4M75myrqCD7jTf1+7D2LTLB995Dq6efxnT6BqFfT/7KvMR57M3bW+u49s3a80T  $8 \\ \text{EwxrMwxFUTj5eyFrFqVSmF2mHdM8zI+rHoijZVSg89/QJXLHjMW5JGdj0GP09k4R2XH6z2PAHGCpqqppzhhQU1VWVtbwQaLJk5yNwd1yrj} \\ \text{The proposed of the pr$ h4kBNPP0PFvn1am7llSyLmzyNgyBAAskuz+dv2v/HN4W9qPTfUN5RJvSdxU8eb8DB5oNpUfv3uKNu+OoTNWvMJaLfLWzPkjs54ejeNXTDdL WNRN8nZGPSYs70F9gqqr1avlQ11hBCiaVBV1V0ffVZ9I2NFzQeNAcOG0XreXDxatKDKWsUnez7h3V3v1ppn7WP24f4e9zMudhx+nn4AlBZW

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kZ2NoCjmXbN1K+nPPYzl5Umvz7tSRiNdepzImnJlbZ7LywMpaz+nZsiczBs6gS4sutdpVVSVl0wl+WnEQq8WmtXdKaMXQu7ri7Wvvh51NR1 PIWFw6ydkY9Jiz+/3UFEIIN6ZWVnJywQLyliyFs5ZZDb7rLlpNfoZNJ7fy0lcP19ri3N/Tn7/E/4Xb09+02VR7I5jykio2LNvL4R01x3t4m RhyR2e6Xd5atjsXQoiLIAW2g0RGRrp6CKIRSM7GoNecKw4fIX3yZMpTU7U2c4sWtJ43F8uAXkz5+cVaq4MAjGw7kuf7PU+Yf9g5/aUfPMW6 xakU59dsQhMSGcDoiXG0aO3vvDeiA3rNWDiW5GwMesxZCmwHiYqKcvUQRCOQnI1BbzmrqsqpFSvImjcf9awtgf0HD6b1vLmsL/2VeatuIq+ 8ZofFEJ8QXhjwAiPbjTynP5tNZft/0/jlP0f0vgh0j2FRXH5rBzw8m8Z255dCbxkL55CcjUGPOTfdRUx1JjEx0dVDEI1AcjYGPeVsPXWKE3 95gszpM7TiWvH0JGzK8/gumMuzqfN5ZtMztYrrGzrcwKqbVtVZXBfnl7Pqb7/y8zc1xbW3vwfXPNyDK+7sbIjiGvSVsXAeydkY9JizXMEWQ gidKkn8mfRnn8WSlaW1eXXsQMSrr/Kd10Fe/vpmCisLtcfC/MKYMXAGV0RdUWd/R3blsP7DPZSX1CzXF9GpOaPujyUg2Md5b0QIIQxGCmwH CQgIcPUQRCOQnI3B1TmrVVVkv/kPchctqnUjY/M/3wmPjOPpHa/w44kfaz3nts638VSfpwj0CjynP0uVla0rD7Frw3GtTVEg4doYEv4Ujcl N1ra+EK7OWDQOydkY9JizoqoXvxeMoigFwE5gx1l/pqiqWnGepzlVQkKCmpSU5KqXF0KIS1KZlsaJZyZTnpKitZmbNyd87hzWtsnn9aTXKa 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juPz+b8zNHdNRvNtIoO4vZp/ejU99zt0UU1OZeNQXI2Bj3m7NDr6aqqLlAUZSkwDAgFdquqqr9bO4UQopFZCwvJnDmLwtWraxo9PAh45EEW dE1jze65tY6/s8udPNnnSfw8/eruz2rj568Pk7z2KJw10++y0W3pf2N7zGbZqFcIIVzFYQW2oiidgeOqqhYCXzuq36aie/furh6CaASSszE 4OufS7dtJn/wsVenpWptXu3acmHwnD+cuJe9ozdXn1v6tmT1odr3rWgMU5pSxdnEqWUdqdnH0DfJi5H3daBsb4tCxuys5141BcjYGPebsyC vYK4H7gCRFUXoA84AkYI6qqlYHvo4u6XGJGOF4krMxOCpn1WIhZ+E75Lz7bq0bGf1uvp7FV8K/T7xe6/hbOt3C5ITJBHjVvyvZgaQsNn68l 8rymh+rbWJbMPK+WPyCvBwybiOQc9kYJGdj0GPOjiyw2wHJp///XCAPGAi8BEx14Ovo0oEDB4iMjHT1MISTSc7G4IicK48fJ/2ZyZTt2KG1 mZo1o+CJP/Oo+WtOptfMGQz1DWXm5TO5IuqKevurqrDy4+f72fNTzXJ+JpNC/5vac9nItigG3078Usi5bAySszHoMWdHFtglgElRFD+qC+s oIJDqq9huX2ALIcQZBd98Q+as2diKa3ZQ907bhy/uiODj3EW1jr22/bVM6TeFZt7N6u0v53gxaxelkJ9Zs9lMUEsfRk/oTlhMkOPfgBBCiE viyAJ7AzD9dJ9bVVWtUBS1EjDEhMA2bdq4egiiEUjOxnCxOVuLisic/RKF33xT0+jhQcV9N/Fk20RO5O7Umlv4tGDGgBmMaDei3v5UVSV10 wl+WnEQq6VmikmnvmEMG9sFL19Z3/diyblsDJKzMegx5wv+6awoStDpGxn/6AlgCdARu0d0Wxcg/6JH14SEhclyWEYg0RvDxeRc+uuvpD8z 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UJRXYAZwCfIBBVC/dZzdVVb8Hvv9ju6IoP1B9Zfw+4JWLGLPTWSyWhg8STZ7kbAx/zFm1Ws19/32y//EWWGvmVRdd2Yfn+x0iW9mttXUO7s y8wfPo0qLLeV8jP70ENYtSyT1es1Z2QLA3o+6PI6JTc8e8EVEv0ZeNQXI2Bj3mfDFzsG8FUBQlgJr512f+uwvwPn3o0kVRDlNddP+qqur8S xjn76f/DL6EPoQQ4oJVpaeT/uxzlJ419UwJ8Gf9HZ14p1XNutYKCu07j+eR3o/gZa7/AzxVVdm7NYMfPtuPpbJmbeuYXi258t5u+Ph7OueN CCGEaDSOnoNtpnplkeXAGsAL6Am0UFXV7tvfFUXxAQKovhIeC/yV6gL+ClVVfzzfc101B9tms2EyXcyqh6IpkZyN4UzOhf/7HxkzXsRWWLP 0f1X3jsweVcA+n5r7uCMDIpk3eB7xYfHn7beyzMLGf+3jwC9ZWpvZw8Sg2zrSfWikLL/XiORcNgbJ2RhclfP55mBfzEYzqcCvwE6qr07vUF U1G0BVVauiKCOonjYySVXVI6efc6EbxE8E/nHW390Auxsqrl0pNTWVHj16uHoYwskkZ2NITdpOyFdfUbByZU2jycTuG+KY3WU3N1NNIXxLp 1t4tu+z+Hv6n7fPrCOFrF2cQmFOudYWH07H6IndaRkV4PD3IM5PzmVjkJyNQY85X8wc7DKqr1KPpWYN7Ewgnept0dsBa88U1wCqqp6oo5/z +QrYS/VV7MuAG4B6161SF0VBqm+EJCIigo0bNwLQvn17AgMD2bmz+mPckJAQ4uLi+OGHHwDw8PBg80DBJCcnU3j6C1VCQgJZWVkc03YMgE6 dOuHt7U1KSgoArVq1onPnztqEem9vbwYOHMixY8fIzc0FoH///hw/fpwTpzed6NK1C2azmd27q+dphoeHExMTw9atWwHw9fWlf//+JCYmU1 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g g Q f c 10 \theta Z M 4 b u 3 b v z 9 t t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b v 2 b t v 1 z u 2 o K a R q G M 4 b u 3 b u$ ksmsqsOQvvMePDfU7EUVLC4blzyZh8M/ZajXTMtdeS9NGHhA0YYGB15tQWcxZNJzlbgxlzlmZBtBknn3wyoaGh9TYLc+fOJS8vjwULFhAaG 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YpllQSgUopW5XSv2slCpTSmUopRYopSKasI8LlVJrlVLFSqk8pdQHSqmkerZtp5R6Vil1sPp425RStyillBf23UMp9aJS6helVGn1MT5TSp3d2O/FSEOGDDG6B0EDknPjHH3/fXKeesr1Our884mf05d6 /qkwFcnYGiRna5CcrcGMOZumWQCeBp4CtgPTgQ+AW4HPlFInrFMpdRnwbyAMuBN4Ajgb+E4plXDctsHACuBm4L3q4+0ElgD3t3DfCcBG4P+

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t Upf ApM07b Jby vv Lyc 0m3by F640 LUsdu JEIoad Uf+bRJsi57I1SM7W IDlbgxlz 9uaYh UnAdK31D1rrf2mtr8I5vejnXjyG8IHdu3cbXYLwgd1bt3Lojr9BpfMxIaGDBtFp+rQTvEu0JXIuW4PkbA2SszWYMWdvzs2UDQwAttRa9iLwsxePIYTwkqj3P6AiPR0AFR501yefQAUFGVuUEF5W 6aikvKqcMnsZ5fZyyqrKnP9ds6yqnCpdhd1hx67tOLQDu7Z7fK1p3uyBDc062Nx91vZr/q/s3br3xBuKNk1ytoZf838lpSKFyODIE2/sI95 sFp4E31VK3ai1/qF62VCgvRePIXyge/fuRpcgWlnBF/8j/LvvXK+73HsvwSedZGBFojX407lsd9g5Wn6U3NJccstyyS3NJa8sj6NlRymsKK SwopCCygLXfxdVFFFYUUiZvczo0n1jo9EFCJ+QnC1hWuU0/2wWtNavKKUigC+VUkdwPt14KLDQW8cQvhEXF2d0CaIVVWZmcvi++1yvoy74I +0u/YtxBY1W01b05SpHFTk10RwuPvzbV9FhDhUfIqski9zSXI6VH8OhHUaXKoQQluPVR8RprRcppZYCo4FOwHat9TpvHk00vtTUVEaPHm10 GaIVaLudQ3fdjSM/H4DAhHji586VaVL9lJnO5UpHJYeKDrGvYB/p+ensK9jHvsJ97C/YT3ZJNnZtb5XjBqgAQm2hhAaGEmoLJSQwxPmnLcS 1LDAgkAAVgC3Ahk3ZnP9d68+a5Sc6TxT1r29wXQvPv4yMDL+6iiQ8k5ytISMjg/CgcKPLqKNRzYJS6nOcF7/SgDStdb03zWmtC4BPvVOeEM Kbcl/9ByXffw+AVoqujz+OrV07g6sS/qTSUU16fjq7j+5m97Hd7D66m/SCdA4UHmhxQ9AupB2xobHEhsW6/uwQ2oHo4GiigqN++wr67b/DA 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9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S t M 2 m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 + 7 L 1 S m Y y Z s w Y N m 3 a x O b N 3 1 9 z 2 L B h J C c n s 3 L 1 S g B 6 9 T M 3 m Y M 3 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S y h K j d R r s + 6 m x s Z G K i g R u 9 b z y Y 9 W X T q 0 G n + / P m D 0 q m z U 0 C m v Z 8 K 6 7 v m 6 K / b t 4 6 S y h K j d R r s + 6 m x s Z G K i g R u 9 b z y Y 9 W X T q 0 G n + / P m D 0 q m z U 0 C m v Z 8 K 6 7 v m 6 K / b t 4 6 S y h K j d R r s + 6 m x s Z G K i g R u 9 k z y 2 K f 1 k T n v m 2 K f 1rP6eS191N3nfJLSsjbvBmAbb9bQYPWfb6fioqsLmj1cZn3/Px8mpubiUQisVgjkQhtHauZZmVlJTzH7/eTm5ubMEZBQQFNTU2xMXJzcwmHw wlj+P3+2L/d7/eTk5OTkLktKCigsbGRaDQaG6O9vT22CmYoFEIpFftcCQQCZGdnx8ZQSpGfn58wRl5eHm1tbScdIxQK0djYmDBGQ0NDbF5b KqfeBoNZ6Qg+PPQ1cBxRprY+fZIzhwENACPgzlkH/FHA18A2t9YPJxDJv3jy9wYE6N7tpj0SZvewlmtutF+Daf/swY4bmuByVYDQ7XoT/+k dre+w8uEl6pguDY/OxzVz1R2sK0cjckbxy5SsZ18pNSD11L7/MgVtvA6wa9VOefabP52zdupXTOjPwguAQybzulFJvaq3ndT9uUrlLE5a57 onsuHN6RCmVC6wFCrXWn9Na/7fW+lda608DzwH3K6Wm9vZ8ExjsF4Og38fpE4bG9v8udelGYtQXwLFxnwmV70C4px+yhIFg1M4OMrVoKrmB 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con6jZgSmrW9tNpuvsNqGp02Lbrdu2peQanUu8ew2/38/06dN7NOnbt2/n8ccf54ILLuCTn/ykrdeNRqMcPXo06Vsy/c1/+9vfkpubS0FBASNH juTWW2+ltrZ/3qavMTp1vuGGG1BKxTLm8fzqV7+iqanJkSw6SLlL2jJr3BC2H64HYOuhOuZPHOZyRILRjDwNlA90FI69B60NEEp+Uo4gdGd M3hjygnk0tjdyvPU4R5qOMCpv1NthCWlGQiZ95050NIrySf6xk9mzZ1NRUUFVVRUjRoyIHb/jjjsAeq27Hgx79+61rKws6fN3795NaWlpr4 +fddZZfPrTn+bUU0+lrq60F154gR/96EesXr2atWvXJjWBtD9jlJWVcf755/Piiy9y80BBxowZE3ts+fLlZGVlDbr0JlnEpBtESUmJbWNNK ymIbW+rrLdtXGHw2KmzbWTlwvApULUN0HB4M0yQ/s+DwUidHUQpxZSiKbx15C3Ayqano0nPdJ3dJjBiBP5hw4gcO4ZuaqJ93z6yTjml3+Ns

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contE4HYgAnwP2KWUq1BKXWJTnB1Bf1ytnNMUhKQFo1O4qbOtZEuH15ORNjo7SEJdukcWNBKdvUVid5fkvgiKxpmBiToP2KTHo7U+oLX+kdb6Qm AkcAOwB5hpx/iZwrx581y7dr50d3EMN3W2Fcmkn5S00d1B4k26VxY0Ep29hQqFIGg1StDt7URbW/t8jmicGZiosy0mPR6t9XGt9dNa6yu01 t+ze/x0Zt26da5d0767i5S7pBY3dbYVyaSf1LTR2UHysry3oJHo7C2UUvjz4uvS+86mi8aZgYk6D7hPOoBSqhbYCLwdd79Ja933V1PhBFqT +EafKhImjopJTylu6mwrkkk/KWmjs4MUBLvqhb3SK1109h6+ggIix48DHXXpw07e90I0zgxM1HlQJh04B6ukZSZWi8ZHAZ9Sagdxxl1r/fI gryOkmPjFjOql3EVIhoQFjbxRmiCYTfc2jIKQCmRBI8ErDMqka63fAd4BUEp9G9gL/AIYA1wNfBv4AJg4qCgzhEWLFrl2bcmkO4ebOtuKtG A8KWmjs4MkrDrqke4uorP38OfFTx7t+7NLNM4MTNTZzpr0LwC3aq3/rrV+Xmt9FVbHlz/beI2OZseOHa5dOzfLj1LWdnN7hHAk6los6Y6bO ttK/KqjHjFUTpI2OjuIF7u7iM7ewxffhjGJmnTRODMwUWc7TfoRYEa3Yz8BLrXxGmnNkSNHXLu2Uiohm97YKitIpgo3dbaVhEy6mPTupI3O Dulf7i6is/eIX9AoUt/3Z5donBmYqLOdJv17wK+UUmfGHZsLDLXxGkIKKYzr8FLXIr3ShT6Iz6RLuYtgAwndXTySSRe8hz+/f510QXCLwU4 cjaG1flIplQe8opQ6ClRhmfQf2nWNdGfmTHfbyifUpcvk0ZThts62EYrLpLeJSe9O2ujsIAndXTxSQiU6e4/EBY36/uwSjTMDE3W2zaQrpa YAPwWWA4uBEcAWrbV5jScNxe32P7KgkTO4rbNtZMVn0r1hqJwkbXR2EC92dxGdvUe8SY8kkUkXjTMDE3W2s9x1BTBda10H7MZqyXixUspv4 zXSmp07d7p6fenw4gxu62wbCZ10bxgqJ0kbnR0kobuLR0y660w9fHm5se1oY99lVaJxZmCiznaa9F0Aio7tB4FqYCHw7zZeQ0gh+dIrXegP R2XskmvS+vwyKxpmBiTrbadJXAvd0jLlWa92qlGoDTr7erhBj1KhRrl5fyl2cwW2dbS0hT7o3DJWTpI3ODpIb7CpDaG5vdjGS5BGdvYe/ny mcGJurc70y6UqqwY3JoAlrrw8Dl3Q6fBjw3wNgEh0moSZdMutAXgRD4ghBtt27hVghmux2V4GGCviBZvizaom1EdZSWSAs5gRy3wxLSDF9u /yaOCoJbDKTc5bhSajfwFvB2x+0trfWB7idqrf8H+J/BBJhJFBYWunr9AumT7ghu62wroXxo7vixrK1BTHocaaWzg+QF82hrbQ0sBY1MN+m is/fob026aJwZmKjzQMpdHgMOAhcB9wPPA3uVUnuUUg8opfJP+myhV8rLy129fmImXSaOpgq3dbaVLOnw0htppbODxJe8NLWb331DdPYe/T XponFmYKLO/TbpWusva63P0VoPAU4FPo3VcvEIVheXN5RSRfaGmRmsWbPG1evLiqPO4LbOtiJtGHslrXR2kPgFjZrC5pt00dl7dK9J72vug 2icGZio86Amjmqtd2mtV2it79VanwVcAowB7rMlugwjHHbXGOclmPSIi5GkN27rbCuyoFGvpJXODpIbiJs82m5+vbDo7D1UIIAKhaydaBTd fPJOQqJxZmCizv026Uqpo0qpvyilHlZKXaeUmtm5qqjW+iWsEpiblFJZdgcrpJb4THqTZNKFZJBe6YLNxGfSvWDSBW/S35IXQXCDgUwcXQ3 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ZgYk6D6QmfR6QD8wErgO+B7yLZdADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs62kSU16b2RVjo7iNdq0kVnb+LLTT6TLhpnBibq3KdJV0rdp+B12dADwLPAZ22MMWOor3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOor3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff5OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZjgs64ADwLPAZ22MWOOr3ff6OR1JZa8CPZAADWLPAZ22MWOOr3ff6OR1JZA8ADWLPAZ22MWOOr3ff6OR1JZA8ADWLPAZ22MWOOr3ff6OR1JZA8ADWLPAZ2A$ 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MukF0NtB3\\ mzxpw5\\ hSTNHZNuJr0\\ qUFY4y009\\ 1B8\\ gLemTgqOnuXhFVHT2\\ LSRePMwESdxaQLJ5\\ AvbRiF/iAtGAWbkT7\\ purple for the contraction of the con$ ghNITbpgOmLSDWLYsGFuhwBAblZ8uYuYdLsxRWfbkImjPZJ2OjuIlyaOis7eJbG7S++vM9E4MzBRZzHpBjFjxgy3QwC6rzoqNel2Y4rOtiE TR3sk7XR2kPgWjKbXpIvO3sWXl1y5i2icGZios5h0g3jttdfcDgGQVUdTjSk620YoviZdJo52knY6O4iXFjMSnb1LsuUuonFmYKLOYtKFE8 jLkomjQj+QTLpgM1KTLjiBLze5chdBcAsx6QYRCJjRtj6xBaOYdLsxRWfbCITA1/FvirZDuNXdeAwh7XR2kASTHm5Ca+1iNCdHdPYuyZa7i MaZgYk6i0k3iEWLFrkdAiB90lONKTrbhlKJ2XRpwwikoc40EvQFyfJZi6hFdZSWSIvLEfW060xdki13EY0zAxN1FpNuEBUVFW6HAEBeVldN umTS7ccUnW0loeRF6tIhTXV2EK/UpYvO3iXZ7i6icWZgos5i0g2irq707RCAbpl0mThq06bobCvShvEE0lJnB4kveWlub3YxkpMjOnuXZDP ponFmYKLOYtKFE8iXchehv8jkUcFm4k266W0YBW/iy8mJbUebmtDRqIvRCMKJiEk3iHnz5rkdAgC5Uu6SUkzR2VYSMu1S7gJpqrOD5AW8Ue 4iOnsX5fejEox6z7/YiMaZgYk6i0k3iMOHD7sdApBY7iItGO3HFJ1tRTLpJ5CWOjuIV1YdFZ29TWJdes9fBkXjzMBEncWkG8S+ffvcDgFIL 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LOtpKQSZde6Wmrs4PkBHNi26aadNHZ+/RV8iIaZwYm6iwm3SD8fn/fJzlEfE16o9Sk24pJOttKwoJGkklPW50dJC8Q1ys9bGa5i+jsffqaP CoaZwYm6iwm3SC2bNnidggxpAVj6jBJZ1uRmvQE0lZnB/FCuYvo7H36asMoGmcGJuosJl3okVyZOCr0l6yuP3Ri0gU78EILRsH7JNPhRRDc QEy6QZSU1LgdQozcYNfPPs3tESJRWebdLkzS2VZk4mgCaauzg8SbdFNbMIrO3qevchfRODMwUWcx6QZRV1bmdggxfD5FXpbUpacCk3S21VB cTbpk0tNXZweJr0k3tdxFdPY+fZW7iMaZgYk6i0k3iHXr1rkdQgLShjE1mKazbUgmPYG01d1BvFDuIjp7n77KXUTjzMBEncWkC70Sb9KlDa PQJzJxVLCZ+Imjppp0wfv0Ve4iCG4hJt0gcnJy+j7JQRLaMIpJtw3TdLaNhEy69ElPW50dxAs16aKz9+mr3EU0zgxM1FlMukHMnz/f7RASi F/QSGrS7cM0nW1DatITSFudHSQ3EGfSDa1JF529T1/lLqJxZmCizmLSDWL9+vVuh5BAnvRKTwmm6WwbCS0Y5SfjtNXZQbxQ7iI6e5/4THqk B5MuGmcGJuosJt0gmpub3Q4hgTzplZ4STNPZNmTiaAJpq70DJCxmZGi5i+jsfeJNuu6h3EU0zgxM1F1MutAr+XE16TJxV0iThHIXqUkXBk9 8uYupmXTB+8SXu/SUSRcEtxCTbhALFy5004QE4mvSm6Qm3TZM09k2umfSdWYvgJW2OjtI/MTR5rB5WS4Qnd0Bvrq7iMaZgYk6i0k3iN27d7 sdQgK5CS0YpSbdLkzT2TYCWeDPsrZ1BMIt7sbjMmmrs4N4IZMuOnsfX178xNETy11E48zARJ3FpBtEZWWl2yEkkC8tGF0CaTrbitSlx0hrn R0iJ5CDT11/plojrYSj5n00ic7ex5cb34LxxC+DonFmYKLOYtKFXklYcVTKXYRkSFjQSOrShcGhlEpsw2jo5FHB2ySWu8hrTDAHMekGMX36 dLdDSCC+Jl3KXezDNJ1tJT6TnuFtGNNaZwcxvVe660x9EstdTvzcEo0zAxN1FpNuEJGIWUZYWjCmBtN0thUpd4mR1jo7SPzkURPr0kVn7+P  $\verb|vtuKo7| ibpXTTODEzUWUy6QWzfvt3tEBLIk5r0lGCazraSU06S2SY9rXV2kIRe6QZm0kVn76OysiAYtHbCYXRbW8LjonFmYKLOYtKFXokvd2| ibpXTTODEzUWUy6QWzfvt3tAYthbCYXRbW8LjonFmYKLOYtKFXokvd2| ibpXTTODEzUWUy6QWzfvt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUWUy6QWzfvt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEzUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEZUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXokvd2| ibpXTTODEZUW0ffxt3tAYthbCYXRbW8LjonFmYKLOYthfXo$ mUmnQhGRIy6VKTLgyehEx62LxMupAe+HNPXvIiCG4gJt0gxo4d63YICSSWu5j3M5BXMU1nW0lY0CizM+lprbOD5AW6MukmlruIzumBr1vJS zyicWZgos5i0g1i3LhxboeQQH5Cn3TJpNuFaTrbitSkx0hrnR0kPpNuYrmL6JwenGzyqGicGZios5h0g1i/fr3bISQQX5PeJCbdNkzT2Vak Jj1GWuvsIKabdNE5PUjold7NpIvGmYGJOotJF3olN6EmPUI0mtnLvAtJkNX1hy7TTbpgDwnlLlKTLqQI6ZUumIiYdIPIz8/v+yQH8fsUOcG 4bHq71KXbgWk620pWXE16hpe7pLXODmJ6dxfROT04WbmLaJwZmKizmHSDmDdvntshnEDCqqNS8mILJupsG1LuEiOtdXYQ0/uki87pwcnKXU TjzMBEncWkG8S6devcDuEE4uvSZfKoPZios23IxNEYaa2zg8Sb90Zws4uR9IzonB6crLuLaJwZmKizmHSDaG1tdTuEE0jolS5tGG3BRJ1tI yGTntl90tNaZwfJDZidSRed04OTlbuIxpmBiTqLSRdOirRhFPqF1KQLNhNfk26iSRfSg8SJo/I6E8xATLpBLFq0yO0QTiChDaOsOmoLJups G1KTHiOtdXaQhImjYfMmjorO6UFCTXq3chfRODMwUWcx6QaxY8cOt0M4gVzJpNuOiTrbRkILxszORqW1zg4SX+5iYncX0Tk9OFm5i2icGZi os5h0gzhy5IjbIZxAvtSk246JOtuGTByNkdY6O4jp3V1E5/TgZOUuonFmYKLOYtKFk5LQglHKXYS+CMXVpLfVg5YFsITBYXq5i5AeSE26YC 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sdGa9lMuoS4VJ0fjFzRf3oqa546+8xw3LgczuNHZCEZNQCavwZwNd/n8isn9gO/PkmwOTzGQAApxTfDpRY5810xlZfSmaXzsYv1/4SLkcss /7Zqc/w43+az0QNxKHWQ/HtisIKXc8lu85GM+zSSzHye9+L32772xtoeuYZA0eUPoNpHKqri297TpsgajiETsh4LZNRlwirRF/qWrri2+OK cwwcibzs27cv+U4DUXF2bJJpL7v/Dmz4lTaDMpJTRxLbRdZ5s8tYZ4F8fszncd/CRJZ49eHV+0203xo3II2o60gYqPGF43U91x10NpqSb16 Poisuj99u+NWv4f/wQwNHlB4DaRzt6kKkuTl2w+WCa+RIwaMitEbGa5mMukRYJfpS15L46nxcca6BI7EoVdcAC25O3H7/v9SLBZkNzvsYdX 1jCkR/vjLpK/j6tK/Hb//qk19hV90uIR4hN5xzVd5+TN4YA0dDALHOZmX33ovc+fNjd3COY//fD0w7uRQAQseOxbfdo0eDOenbY0J7yKhLR K47sSjQ+s8aDRxJdhylinpSxo/PssJ3/gPA2M/FtqNh4PUbgKBJs8Xdp4BAT49ldx6QW2LocLQka50F8v0zvo85I+YAAMLRM07637sQiMj3 NXAqtARa4mMvcBcg36PvhHYz6WwkzO3GmEd/CmdPr/HwyZOov/e+JI+Sg4E0Dh1NLELnHmuNlrJ2R8ZrmYy6RHxx5qj49sNv7caxU11D7C0 vyujLWDLqAzJq1KjkOw2F0w187bnE5NLm/cC6/5v9wIygb+zFIq0ZAQ10Fojb4cZPzv5JfHLp/tb9eGrLUwaPKj00+xMrro7K018DM+lsN0 6RIzH64Z/Eb7evXo32d981cESpMZDGaqNO39pYARmvZTLqEnHz0kkY1RszKR2BMH781+0Gjygz1NEXMuoDsXnz5uwPUlIJfDHxhoeNTwAnT LhwjUXz6YBGOgvktMLT8L3qxKS/l3a8hAOnzNdfXRl7GZ03eog9tcFsOhtNwZIlqrx6/YMPIdLhH+IRxjOQxlRRtx4yXstk1CXC53Zi+Wxv vKD4/u6TWLNHvub7yTiq+CZgPGXU9eX0a4AJC2Pb0TDw9+8CZuvYcao2sV0k39eOduOKKVegamQVACDMw/jJRz8xXRcYpVEvyyszcCTEYIy 88044S2Ixt3B9PRqfeMLgEaVP6Fjimxv3GKqoE/pARl0yqk8rxr9XJ8zKQ2/uQshEE0sjUY6G9kSudWSh18DRyEthYaE2B3I4Yl1getrrof ZDYNcb2hxbFB2KRXYKrGWqNNNZIIwx/Gj+j+BgsbeHTcc34d0j8kcTlIiuqJtRZ6NxFhVh1F0/jN9ufvVVBBWtDmVjII3DDQ3xbbeEkQkif S6aqusA88ckTiEQjBo4oPZQZdREVdbPqbDSFF1+MnNNPj90IhdDwy8eNHdAQDKSx0qi7RowQORxCJ2S81smoS8b69etRWuDFLUsnxe974v3 P0B0yx5uksppemk/V9MFYv369tgc8+07A21MJaNoHbHlV2+PrSbuiop5vraqU5joL5Ntzvo08d2xV4QOtB/DWwbcMHlHqnPCfiG+LMOpm1t bclbq/7KRAJaXsOvVBW1AusZdQ111kgRb4iXDvj2vjtp7Y8hVDUHM+pxq6EgSrN0d9AmVlno8mtqkL+uefGbzf+97MGjmZw+moc7epCtKMj dsPthmPYMANGRWiNjNcyGXVJ8bmd+PbixFLqT6/dj0BY/qo6VdQNZMHNQF6PKWmrA7a/bux4UqXDuhV1s3PtjGsxzBszIHUddVh9aLXBI0q N5u7m + HZJjnX681uV01u/E99uf + cdBA4eNHA0qaGqpo8YAWahtrKEXJBR14xzzjknvn3V/AkY0WN269u68eeao4M9TBoaOhRGvYCM + mAoddAlline (NSA) + MAODA (NSA)YMTx4w/6bE7X/+Sv40MJEQ0NkU22a0xAcNi6CLzgLJ9+Tj6ulXx2+/uPNF6TvAdIW70Bm0tYh10VwocBfofk6z62w0vmnTkHf02bEbnKP5h ReMHdAA9NVY1U+n2ItlkPFaJqMuGTt27Ihv+9xO3Hh2Rfz2bzcckv5NUtXxpcBn4EjkRqmzplQvj63uCQAndwCfSd6tw594s0PuCMBhrcnH uukskH+f+u/wOmMfunc27cTmE/L1GVbS0p1Ykr7EVyKk0mkFnY1mxI03xrdP/eWvKiMsA301Dp+kiaRWRMZrmYy6ZDQ1NaluX3nGBOS4Y+Z ld307Nh1sHuhh0qCKv1BFfVD66qwZuSXA5/4jcfsjOf0ecSw8kRTQUWeB1PhKcMnES+K3X9r5koGjSU5TV+K/+XDfcDHntID0RpNTXY2cuX NjN0IhnFr1Z2MH1Ie+GtNEUmsi47VMRl1yhuW68dWqxIpnv/3nIeMGkwJk1CXgzG8ltvetVi8oJBsWnkhqJa6ZcU18+406D1RdVWSD8unmh DGG4quvit8+9Yc/gEfknZdFrRkJUZBR14y5vRUFBdd9vjy+vXrXCZUZlg0y6qkxkM6aUVIBVC7tucGBT17R71zZ0qEwfBasqOuqs0AqhlVg ftl8AECUR/HX/X81eESDozTqoirqVtHZaAq++EU4e7qnhI4ehf+f/zR4RAn6ahxuVGbUyahbBRmvZTLqktHe3t7vvimjCnBGeTGA2Mqff90 i76TSJn8wvj2Cur4MykA6a4oy/vLJy/IugNSp+JoxV4ypEonuOgvkq5O/Gt/+874/I8rlXDG5qTvxnCrxiamoW0lnI3F4vRh22WXx2y1/+I

OBo1HTV+PIqdb4trOYvrmxCjJey2TUJePAgQMD3v+1qnHx7dc17f4SiXK0dSf6LA/LcRs4GrkZTGfNmHpRbHImALQdBQ6s0fd8mdKlmHORU 2zcOHRCd50Fcu6Ec1HgiXVQqeuow7/q/2XwiAZGFX0RZNStpLPRFF1xRXzbv+4DRFpbh9hbHH01jpw6Fd92FhWJHQyhGzJey2TUTcKX5oyG 1xWTa9fxNuw4JseL15K2r1C8G2ChzwWng/rKGobLA8y9MnFb1p7qXYkOHcilqpTM+Fw+XFRxUfz2/zv4/wwczeAoJ5OKMuqEdngrK+CbNQs AwEMhtK+Ws3d/pPVUfNtZRIsdEfpBR10yysvLB7y/00fGF2cmlsL+65ZjgkaUOi2didhLUa7HwJHIz2A6a8qsryW2d78JhLoH39coOhVG3Y IT/4ToLJCLKhNG/d0j70q5Uqkqo54jJk51NZ2NpvDixPOs9e9vGjiSBH01VkVfqKJuGWS81smoS0ZJyeBm5aunJ7q//GN7vXQ91U91Jd60i 3Mp9jIUQ+msGWN0B4rLY9uBNmD/e/qfM12UFXULR1+E6CyQ0aVzUJYXKxi0Blrx0fGPDB5Rf1oDCQNV5C0Sck6r6Ww0hRd+Cejpf9+5aRNC J04meYT+KDXmnKsi0b0TYAnzI+01TEZdMmpqagb93ecnDUeB1wUAONLciV3H5Zr00NqpyKdTRX1IhtJZMxgDZiYmZmH7Kv3PmS7KjLoFoy9 CdBaIgzmw7LR18dtvH3rbwNEMTFuwLb5d6CkUck6r6Ww07lEjkTs/1mUInKP9PeMXb1NqHPV3AqHY+x3z+eDw0eJ+VkHGa5mMuonwupz4wv SR8dv/2FE/xN7iUUV fa CKpHCjjL3v/AYSDg+9rBJ3WnkxqRb5Y/sX49ntH3pMu/tIWEG/UCe0pOP+8+HbHmrXGDWQAoqp8epFh4yDsARl1yANDPARLANDSguHtqsXKDIqb+9XS6jfqqToi+pkkxnzRg1Eyg6LbYd7AAOy90XGJz3ib5Yr6IuTGeBzB4xOx5/aQu2YevJrQaPKEEkGkF7KPFNY2+XGr2x os5GU7BkSXy788MPEenwGzcYqDUOKzu+UOzFUsh4LZNR14xkzfYXTy2Nd3/Zc6Idh5uMffFSckpRUafoy9AIW1SBMWDKBYnb+94Rc95UCHY AvdVYdy7gtt7XxzIunpEtjDGcPfbs+03/Pfq/Bo5GTUeoI76d786H0+EUcl4r6mw07rFj4Z02DUCs+4vRix8pNY620kRSqyLjtUxGXTLWrV s3509zPS6cNSmxCtoHexuG2FssysmkFH0ZmmQ6a8qURFQBeyXKFFt8IikgWGeByGrUjYq9WFVno8lfuiS+3bHG2LUglBpTD3XrIuO1TEZdM lLp5HLO5IRRX7e3Uc/hpIUq+pJHRn0ohHbsKV8EuPNi2837gcbPxJ17KFT5dOvFXgDBOgtk/uj5cDti1/i+ln2o98sRw1NNJPWKM+pW1dlo Cr7whfh2xwcfgEeNWw1XqTF1fLEuMl7LZNQlg7HkiwSdM6U0vr1xfyNCETmW8lZPJqXoy1CkorNmuLxA5ZLEbVnaNKpWJS0ybBh6IlRngeS 6c3FG2Rnx27JU1VuDCQMlsqJuVZ2NxjdzJpw9meFIczMC+/YZNhalxlRRty4yXstk1CVj8eLFSfepGJGHsUU5AAB/MIKawy1JHiGG1i5le0 aqqA9FKjprysSlie2DH4g992DYYFVS4ToL5KwxZ8W3ZemnbkRrRsDaOhsJczgSbRoRm1RqFEqNVYsdUUXdUsh4LZNR14ytW5N3UGCMqarqH +yTI6eujL5QRn1oUtFZU8oTmWIcWg8Y+BVynK5TiW1fkVGj0BXhOgvkzNFnxrf/Vf8vKb4yVmXUBUZfrKyz0eQtWBDf9m80zqgrNY60JZ5n zmHUAtRKyHgtk1GXjJaW1KrjZyty6h8dbB5iT3G0dyeMeiEZ9SFJVWfNKJ0K5PX04O8+BZz4VOz5ByKgWLDLZ803O+E6C2RK8ZR41bqpuwk H2w4aPCLjKupW1tlo8hYoKur/+hd40GzIOJQaRzsS3YUc+WJagBJikPFaJqNuUs4oT0QFtta2ojsUMXA0sQkY7d2JF9ACn8vA0RD9YAyoUF  $\label{thm:condition} TVD0qQKVYadYHVT0IbHMyB61HV8dv/0v4vA0cTwyijTuiH+7TT4Bo9GgAQ9fvR9anxRYZIR+K1y1GQb+BICDtARl0yqqqqUtqvtMCLyhGxThullender and the statement of the condition of the condition$ h7BSBRba0/p0KrkBMJRhK0xr749Tge8LjH9i81KqjprijL+IkN0XRFTsKpRN0RngSgnlP7rhARG3aD2jFbX2UgYY8hT5NS7Pv7YkHEoNY4q F19y5pNRtxIyXstk1CWjuTn1GIuyqv6vQ8bGX5TV9HyqpiclHZ01Q2nUazcZn1NXVdSt+fWxIToLRGXUJcipG9We0eo6G0101enx7c4tWww Zg1JjdfSFjLqVkPFaJqMuGYcOHUp53zMqEkb9o0PG5qo6Agqj7iWjnox0dNaM4RMT/cq7T8V6qhuJDYy6IToLZHLxZBS4Y9o1dzfjaMdRQ8 fTHkw8pwo84p5TVtfZaHLmzYtvd23ZasgHQqXGqugLGXVLIeO1TEbdxJypqKjXHG5BJGpcNaujm4y69DAGjEtUQFFncFShO9HizKpG3eo4m AOzRsyK3/600dj8sD+UiCTku8lAWQXvpElxQxxpbESors7Q8VD0hRAJGXXJqKysTHnf8SU5GFngBRCraH92siPJI/SjPZDo+ELRl+Sko70m yGTUbdD1xTCdBTK7dHZ8e1vDNgNHojbqeb2r8QrADjobCXM4kDN3bvx2lwHxl16NeTgM3tXVMzAGlpsrfCyEfsh4LZNRl4yCgtQri4wxzB1 fFL+9re6U9gNKEWVGvZCMelLS0VlTxktq1C06mdQwnQUyZ8Sc+Pa2RnsadTvobDQ5pydy6l2fbBF+/16No/7Ec8yRny/lSpZE5sh4LZNR14 x0m+3PGZtYFW1bXesQe+oLRV/Sw7BFFcZUAeh5YzmxAwj6h9xdV1RdX+R7cdQCGRfP0Bp1RX13026EIqEh9taXz1BnfFukUbeDzkajzq1vExpression and the contraction of theX7+Xo0j7YqJpNSa0XLIeC2TUTc5cySpqKsmk1JFXV58hcDIGbFtHgWOfWLcWGxQUbcDJb4SjMsfBwAIRoPY07LHkHFwzuEPJz545ropkmAl cmYn5kJ079sHHgwaMo6oP2HUnXlk1An9IaMuGcOHD09r/9mKivqu4+0Iho1puafu+kKrkiYjXZ01ZWziK2QcNyiqEA4C4e7YNnMC7hxjxqE zhuosEBly6t2RbkR57PXP4/DA7RD3OmQXnY3EOWwY3GPHxm6EQgjsF9u1qldjas1obWS8lsmoS8bMmTPT2r8kz4PxJTGTE4xEsae+Pckj9I FWJU2PdHXWlLJEphj1BnXpCComPnsLYh1pLIihOgtk5vDE37m3Za8hYzAqnw7YR2ej8c2YHt/u3rlL6Ll7NY60U2tGKyPjtUxGXTI++CD9F SPnjC2Kb281KP7Soez6Qhn1pGSis2aUJaqfhhl1VWtG68ZeDNVZIFNLpsa39zQbE31R5tNFx17sorPR+GbMiG937xJr1Hs1VrVmpIy65ZDx WiajbgFmj0vEX3YebxtiT/1op8mk5mGUomLQsDsWQxGNDVoz2ompxQmjvu/UPoSj4SH21gcjK+qEGLzTlRX1nYaMQRV9oYw6IQAy6pLhcqV vcqeVJTpm7DUo+tJB0Ze0yERnzfANA4rLY9vRUMysi8YGq5ICBusskGJfMUbmjgQABCIBHGk7InwMRhp1u+hsNL7piYp6YPdu8Ki4OVm9Gk dpVVJLI+O1TEZdMhYtWpT2Y6YqjPqeE+2GLK/cTl1f0iITnTVFlVM3YPKfDVozAhLoLJBpJdPi27ubxX/46wwbF32xk85G4hpZCmfvpM7OT gQPHxZ2716NI6rJpPTNjdWQ8Vomoy4ZNTU1aT+mrNAXX2SovTuMY63dWg8rKaqKOnV9SUomOmuK0RNKbVJRN1xngSjjL0a0aFRW1PPdYiud dtLZSBhj8CniL4E94p5nvRqrMupUUbccMl7LZNQlo60t/Yw5YwzTyhI53z314nPqyvaMeV6n8PObjUx01hTVhNLt4s+v7PrisW5VynCdBWL @hNKOUOI5JTr6YiedjcY7eXJ80/CZuBaNvRpH0xPf3LBc6tVvNWS8lsmoWwRV/KW+Y4g99aEzGIlv59FkUvkZmYgpoNGALh3BxJsdaOKfJZ hcnDBQ+1vF9rgG+nR9cZGBsireSRPj24H9nwk/f7Qr8Txz5NDzjNAfSxp1xthNjLFXGWO7GWMRxpj40HaGVFdXZ/Q4tVEX/4mwK5ioqOd4q KKejEx11oxhEwBXzyJD/gags1ns+RWmCh7rvtkZrrNAxheMh4vFPqTX++tVxlkERk4mtZPORuOdNCm+HfxMnFHv1Zh3dsXvc1BF3XLIeC1b @qgDuAvAJQBOAjhm8FjS4sSJExk9TmnUdwvu/MI5R2coUVHPdZNRT@amOmuGwwGMSFRA@SC4qh5MmCorR18M11kgbocbEwonxG8fbD@o9Px GGnU76Ww0nomKivqhw+Ch0BB7a0evxtEupVG35orKdkbGa9mqRn0JgGGc83MAbDV4LGlRW1ub0eOURv1Agx/hiLi2VYFwFL2NZjxOB1xOqz 6ttCNTnTWlNJEpFh5/Cdkj+iKFzgKpHFYZ3z7QekDouY006nbT2Uic+flwjR4duxEKISjov32vxsqMuiOHjLrVkPFatqSj4pwf4pyLc6oSU OhzY2SBFwAQjERx9FRXkkdohzKfTrEXEzFCYdQbBC/7HrRH9MVuVAyriG+LNupGrkxKiMWrrKrvE5tTV1bUGRl1QgCWNOpmZrJiRnu6VIxI VJEONPqH2FNb0hX59Fwy6imRjc6aUTolsS160SNF9RMWNlVS6CyQyqJERX3/KbETSv1hRUXdJbaibjedjUaZUxc1obRXY9VkUsqoWw4Zr2V  $\tt qz6GAMfYtAN8CgDFjxmDt2rUAgMrKShQUFGDr11iKZvjw4Zg5cyY++OADALGVrBYtWoSampp4a5/q6mqcOHEi/jXK5MmT4fV6sX17rBXeyJubergaps and the standard of th$ EjMWXKFKxfvx4A4PV6sXDhQhw6dAj79u0DAMyfPx91dXU4evQoAGDq1KlwOp3Y2bN0cllZGSoqKrBx40YAQD5PVLbf2bgV7LgbCxcuxMGDB vx7hcMzEn3P00dixYweampoAAHPnzkV7ezsOHIhV3crLy1FSUhLvYVpcXIy5c+di3bp14JyDMYbFixdj69ataGlpAQBUVVWhubkZhw4dEq7 T5s2b0dGz8EW6OuXk5GDixInYtGkTunqqMyJ0Gj9+PEaNGoXNmzfH/jYWRe86f9112/Dh2rXCdCrzt8LTc+5DxxowYWZUSp3mz5+f1U5utx  $\verb|tjx47NSqfCwkLTXE+jJ/ZEEgDsOL4DR48eFabTyeaT8XO7uAu7d+8Wdj2Fw2GcOHHCNDqZ9Xrq1amOAb0Wufuzz7Bz507dryfGGNauXYvS1| | |tjx47NSqfCwkLTXE+jJ/ZEEgDsOL4DR48eFabTyeaT8XO7uAu7d+8Wdj2Fw2GcOHHCNDqZ9Xrq1amOAb0Wufuzz7Bz507dryfGGNauXYvS1| | |tjx47NSqfCwkLTXE+jJ/ZEEgDsOL4DR48eFabTyeaT8XO7uAu7d+8Wdj2Fw2GcOHHCNDqZ9Xrq1amOAb0Wufuzy7By7AgfabTyffCwataffabT$ 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theRjZewEQw5LMj744APdjp3vVWbUs+z6Ek18FUgV9fTRU2dNUbTT09ao260ibhqdBZLnTsQSsjXqsqxMSjrLBfP5gJ7KKA8EwCXsjS2Svp1fn n32WWzfvh0PPvjgoK0OsyUSiaC+vj7ln0gkotm5fT4frrrqKuzZswcbNmxAJBLByy+/jHHjxmHZsmVDPrZDi8nHGkMVdRuh6vqS5YJHIUVF 3e0yX2aPSBEtK+pR+xl1oj+57sQS3Z3hzqyOpWrPaJNvaYjkMMbgyM9HtDUWsYr4/XCl0HZvsHhJ986d4D2THX3Tp4NJGI8YirKyMpSWlmL 79u1obW3Ffffdh3nz5uHGG28ccP+nn34aP//5z9HQ0IAbb7wRO3bswEUXXYRbbrkF9fX1uP3227FmzRr4/X5MmDABq1atwrRp01THqK2tNS Sj3svy5cvx1FNPYeXKlWhubkZ9fT3uvvtuKaMtySCjLhkul36SaJpRVxh1l4Mq6umip86aojTqWWfUFUbdJovTmEZngSijLx1ZPqdkqaiTz vLhyMuNG/Wo3w9kUTk2c9eXXmbPno2PP/4YDzzwABoaGvD666/DMcB792OPPYbnnnsOf/3rXzFlyhTcfPPNePfdd/GjH/0IQMwAV1VV4cUX X4TT6URNTc2AiyQZmVEHgKqqKsybNw+vvfYaamtrwRjD9ddfr+k5REGvLpKxaNEi3Y6d53GBsdgE9s5gB0FIFK4MYyshmkyaFXrqrCm6ZdT tYdRNo7NAVNGXcJYZdUnaM5L08uHMy0dvOSrrXuoWMervv/8+Hn/8cVx55ZU4++yz++3T2tqKFStW4B//+AdmzJgBALjuuuvw3HPPYe7cuQ CAffv2Yc6cOQgGgygoKMCZZ5454Pm0zqi//PLLOHw4NpG3oaEBwWAQDz74IADgtNNOwzXXXNPvMcuXL8ett96Kt99+G0uWLMHEiROTnkfGN 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theqLBBlRT2V6ItsrRkB0tkM0JRdX1Jx6jacTHrDDTfghhtuMHoYRB/IaUnGokWLhJ4vJ932jLTgkSaI1lkz0q2oK1cldbhs84bXi2l1Fogyo5 7KZFIZK+qks/ykuzJp364vZm7NSKSOjDqTUZeMmpoaoedLN/oSUnSG8VBGPWNE66wZ6a5MavPWjKbVWSCqinoK7RllNOqks/woK+qZrEzq9 /s1HxMhHzLqTE5LMtra2oSez6uqqKcQfaGKuiaI1lkz+i54lOwNz8atGQET6ywQK2TUSWf5yWoyqYMhGk3+/kiYHxl1JqNuc9Lt+qJcmZTa M9oQxgDFSpJJWzTauDUjkRp9VyZNtmqkjB11Qn6ybc9IEEZBTksyqqurhZ5P0Zk07a4vt0BRxojWWVPSWZ3Uxq0ZAZPrLAgHc6gMdzA6dE5 dxoo66Sw/LN3oi/KxYMjNzdV4RISMyKgzGXXJOHHihNDz+VxpTialPuqaIFpnTUlndVKbt2Y0tc4CSafzi4xGnXSWH4diMimPRpN+c9O3oh 4KhQbfl7AMeuic9LmWBHJaklFbWyv0fL40M+rU9UUbROusKWlV1JWTSe1n1E2ts0DSyakroy8uJodRJ53lR1lRd7S1oatr6NcuddcXfQwcI R966NzV1ZXVolFk1G2Oqo96OJXoC1XUbY8rjc4vNjfqRGqocupJnlPKirqbnlNEiijbM7I//wVHjx5FZ2fn4NVOyqgTWcA5RygUQnNzM+rq 6jB8+PCMjyVHOYKIM3nyZKHnS7uirsiouyijnjGiddYUl3IyaZKKetTeRt3UOguk74TSoZCxok46y4+yPaPzk08watQoHDt2bNAKatTvR6S 1NfbY9nbwlhZa2MoGhMNhzXR2uVzw+XyYMGECfMo5EukeR5PREJqRzdcjmaCsqKfb9cXtoop6pojWWVPSWZ00Yu+Muq11Fkg6R11VUZfkOU 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WENngahWJ01SUZcp+kI6mwdVRn2wlU1V0ZfYh0fS2B7IqD05LQJAatGXoKI9I0VfiKSdXyj6QqRJsuiLMqMuU0WdMA8pRV+ojzohEeS2JK0 wsNCQ83oVxju16As9dbLBKJ01xZVkdVLVZFJ7vtlZQmeBJ0v8ooy+yFRRJ53Ngzr6kvrKpKSxPZBRZ3JbklFVVWXIeV0aTKpoz0gZ9ewwSm dNSavriz0r6pbQWSDK1UmDkf4mStboC+lsIlwuoLdrWTis6pney0B91EljeyCjzmTUJWP9+vWGnNfnUi54RBl1vTFKZ01J1vUlSkbdEjoLR nl0ks7lQxl/4AJ1fBoq+kMb2QEadyW0RAGIZddaTZglF0CJRrvp9JMrBe+5y0hicDoq+2J6kRp0q6kR6pNP1xUPPKSJD1J1f+r92qaIvt0Alleres (a) and a second contraction of the contraction oRYTBk1CXjnHPOMeS8jLEhJ5RSPv3/b+/+o+Q6y/uAf5/Z2Z1daSVLq5Us6weWjW05skC2uo0ss0V2fuAGWtrSEEhr0jh1KEUETHPKOSGpcU yoSwgOgTRtY1wSsCkJDeYkPSEnHBrLiAqBUG3LUi0JSzKS0A9rJdta7c/ZefvHnd1578y9M/vjzn2fe9/v5xwf7c6M9r4+39Xus+8+93mT5SrnRIVaX9ijHiUXOafI7lGPKtTtvnVNU1+Yc7aEbiidZesLM/aDxpxZqCtz8OBBZ9dudugR+9OT5TLnxIQOPIqa+mKPZ9TTppCmXOScotDU l4jf0titL5oKdeacLaERjeMRO+qTjSeTMmM/aMyZFZcyQ0NDzq5t31A6Vg5PfrH707tYqC+Yy5wT08mpL63kIucU2YV61NSXUKGu6LRb5pw t0m21voxHbDKU7R314POMGftBY86suGiGfTpp/eQX3khKDYqc+kLJajVHXeuOOmVLoatF68tE482kRK6w4lJmy5Ytzq7dbJb6ZNnqUS+yR3 2hXOacmJZz1Dn1JRc5p6jljvqUzh115pwtLVtfIuaoM2M/aMyZhboyly9fdnbtkl2ol9mj3k4uc05MZ6sede6o5yLnFNk3k0btqE9UdN5My pyzpWC1vlQiWl+ibiZlxn7QmDMrLmWOHTvm7NrdTae+sEc9SS5zToxVVHHqS7Rc5Jyi0HjGiB/+tLa+MOdska7mPepRc9SZsR805syKi2bY rS/j9a0v3FGneqGpLy00PPJ06gvNTasDj8pTtZYETYU6ZYt9M2mFc9RJOVZcymzYsMHZte2bSZvtqH0O+sK5zDkxnTzwqJVc5JyiVgce2Tv qmg48Ys7ZUijZPeqN90JEtb4wYz9ozJmFujJ9fX3Ort3drEfdvpmUO+oL5jLnxMxl6ounu5+5yDlFrXrUtba+MOdsCZ1M2mKO+vSOOjP2g8 uvz9LX1 heam1 Rx1 u3jXVKhT toRaX + rmqNv96 ejshAhbPcktVlzKLF+ + 3Nm1 m85 RZ496 olzmnJiWU1 + 4o56 LnFM016 kvmnrUmXO2 hE4mnaj7 runding statement auch and the statement of the sPItoewGYsS805sxCXRmnBx41Gc84McUe9SRpPFRhzuY09cXPQj0XOafILr6z1PrCnL01UIo/mTTqRlKAGftCY86suJTZtWuXs2s30/Bossw 56klymXNiWk19qbD1JRc5p6jbuu8h8mZSpSeTMudskVDrS12PesyO0jP2g8acWXEpY4xp/aI2aTZHnSeTJstlzolpNfXF3hFVtPuZplzknC 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|czFixedXbtUbLKjXrYPPNLzK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLKjXrYPNLzK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLKjXrYPNLzK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLKjXrYPNLzK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLKjXrYPNLzK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplzouwi3J78wv50ADnKOUX26aRjVftAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplzouwi3DayAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplayAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplayAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplayAgzC3VlTpw44eza4Tnq| | |czFixedXbtUbLK+escplayAgzC3VlTpw44eza4Tnq| | |czFixedXbtU$ TXrUeTPpgrnMOVH25Bd7lrq9o97h7456bnJ0UVyfuubWF+acLaGTScfrxjNO1DYZpLNWqDNjP2jMmRUXzZj1HHW2vtC0YszppFNsfaH5iZv 8onU0I2WPdDc5mdQu1Lt0/eaG/MSKS5nrr7/e2bVDN5PWz1FnoZ4olzknKq5QL9utL/5+s8tNzimKLdQV76gz52wJtb5MTIROozST9o567f OMGftBY86suJRZsmSJs2uXis121NmjniSXOScqbuoLd9QB5CjnFM2mR11boc6cs0VEQrvlxmp/idtRZ8Z+0JgzC3VlNB14Z08yTJY5Rz1JG g9VmJfYqS/cUQdylHOKsjj1hTlnT1z7S1yhzoz9oDFnVlw0o7OjgI5CsFteMeFddPaoU6TYqS/cUaf5sW8mHZvKxo46ZU/4htJacc4eddKG FZcyK1ascHr97mL0LPVQjzqnviyY65wTM6upL/5+s8tNzimyW1+y0qPOnLMn1KduHXpUiSnUmbEfNObMikuZW265xen169tfpoV31NmjvlC ucO5M7NQXq/XF4x313OScIrv1xS7Uy9Zpt9oKdeacPdJt7ajHtr7UPs+YsR8O5sxCXZmnn37a6fXDs9RrxflEmaOvSXKdc2Jip75wjjqQo5

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TKOHTsGANiwYQP6+vpmfu20fPlybNmyBbt27YIxBiKCHTt24Nlnn8WlS5cAAFu3bsXFixdx4sSJ1HPat28fhoeH553TwMDAgnLq7e3FwMAA 9uzZg/Hqr20HBwdx5MgRnD9/HgCwefNmjI+PtzWnDSNnsKH6efHymZM4tGsXduzYgbOnT2J19fGxKeDsiROZzGmh/55K1ckSrnPK0r+nwqr  $a Rs B L p 1/Cm T Nn \theta N H R g a M v H p 15 v F A p z H y d T C K n h f 57 q 1 Q q 2 L 9 / v 1 c 5 u f j 3 1 0 T X v T N D Q 5 j e Z p g a G 8 0 B A w c w N D S E Z W f O Y n q v / f n D L 2 C i 1 I U N G z W f O Y n q v / f n D L 2 C i 1$ bg5ptvnvmcY07Z+P40n5zWrl2LS5cuOckpjhhjYp90SUSWAbh/Dn/ls8aYi00+3r8A8ASAzxtjfrXVBxsYGDDTnzBpevHFF/H6178+9et0+ 42vHcD/+N6PAAC/8083457br0WlYnD9R/965jXHH34rRHjo0UK4zjkxR/4W+PI7g7dv+Bngnr8I3v7mA8B3/iB4+6c/BvyDf+dmfY7lJucU feP4N/CRpz8CALh7w934vR2/BwD47P7P4tEDjwIAdt66E+/b8j5na6zHnLPn/KcfwdCjwefTyvvvR//7/g0A4KV778XInu8CANZ//vPoHXw TAGbsC5c5i8gPjDED9Y9r3lFfBuBjc3j94wBiC3VjzJdF5BMA3rbAdbXVyZMnnX4xiJr6Ut+fziJ94VznnBh7jrrdl17myaRAjnJ0kT2e0T 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Mvut8gn09q6ffLkTey+YgOZuD5GwORsxZigVhJyIiwtldELWgRnPe/jNs+AoADbzc/kL2p1pmK/L18OWt/m/h7e5d4WaT0rK5Y9YaTqdbiologyattaliansete for the state of the state$ 4wfy++vLsX4UE+1dZ1VyLvZXOQnM1BcjYHI+YsxYKw46yVo0XtqrGc05Pgx0dsm9+1HcDPSYVjC1684MVKjVPIzMlj9Ow49p1KB8Dbw40Zo 2KIqu9f1R67LHkvm4PkbA6SszkYMWcpFoQQ1eu3ZyDNsqjMnuBI/pd31PbSda2u4+qWV1e4yfx8zeMLNtpWZ1YK3ru5K92aVW61ZyGEEEKU jxQLwk5QUJCzuyBqQY3kvONX+G8eAJ1K8UTjZmTkZQIQHRzNs+c/W61m3/x9Bz//V1h0PH9Fey7r1LDq/XVx8142B8nZHCRnczBizkpr7ew +CAdiYmK0EW9FCVGijNPw0QWQmgjAK216Mi/nGADe7t7MvXIubUIqvljanNX7ef7bzbbtUb2bM+GajrKWghBCCFFNlFLrtNYxjl6TOwvCzs qVK53dBVELqj3n35+3FQqxIZG2QgHg6f0frlShsHT7cV78rrBQGNI+nJeulkKhvOS9bA6SszlIzuZgxJylWBB2cnNznd0FUQuqNeddf8KG0 QCcdHfjpfr1bC9d3Pxibmx9Y4Wb3HY0mbFz47EupUDnxsG8f0s33N2kUCgveS+bg+RsDpKz0RgxZykWhBBVk3kWfhgHWKZJfSGqI6dzLTMW hfuG89IFL1X4TsDJ1Czu+SKOtOw8ABrX82XmHTH4eXlUa9eFEEIIUToZs2BQzhyzkJ+fj5ub1JGurtpy/uEhiJ8NwJywSF4P8rK9NO3iafR 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MmEFcXByPPfaYJ0urlt9++402bdoA0KlTJzIyMtyap02bNtxxxx2lxsoeFRowYACtWrXinXfeYc6c0QQEBDjNs2zZMsDeWAhrJCQkWF2CcJ NkZy7Jzkw1mVvm+vWkfvKpYzl66hR85I9mTuQ0J0Gk7F+nvcUFF1xAUFBQuc3CtGnTSElJYd68eQQFBXm4uqorbhRqQl5eXqlmo2x2Pj4+3 fX2Jj4932Szs2b0HV155hSuuuIKBAwfW6H5tNhunT5+u8pfNZqvR/Zfngw8+ICQkhLCwMJo1a8bIkSM5deqU03pDhw5FKeU4g1DSe++9R1Z  $\label{thm:local_problem} Wlhx \ddot{V}s NjBgwetLkG4SbIzl2RnpprKLfm118j//RAAPmFhRI0fXyPz1kVyGlId1fmtzlaXUK5f7/7V7W27dOnCli1bOHXqFE2bNnWMjx07Fq$ Dc8/LPxaFDh4iLi6vy+gcOHHDrouXquOSSSxg8eDAXXHABaWlpfPn117z00kt8//33bNiwgdDQUMe6cXFx9O/fn6+//pqjR48SExPjeG3Zs mUEBAQ4nc4khBBC1FW5//sfp5csdSw3e+wx/Ep8phClSbMgjFLyuoX+/fsDsGrVKr788ktGjRrFhRdeWOH227Zt47LLLiM1NbXKD3aJjo5m 1apVVa4xOjq6yuu6a+PGjaWW77rrLrp06cLEiRNZsGABEydOLPX6sGHD+06771i+fDnjxo0DYPfu3WzYsIG//e1vNGnSpNZrFuWryVPThGd JduaS7Mx0rrlpm41jU6dBfj4Awd26EX7z4BqorO6SZkEYpWyzUFhYyNixY2nSpAnTSpx7WJ7t27fTpUuXaj0BMigoiCuvvNLdkj3miSeeYP r06XzxxRdOzcKgQYMIDw9n2bJljmbhzTffBODee+/1eK2iNHmYnrkkO3NJdmY619xSV64ke/Nm+4KfH9HTp8szFSohzUIddS6n+qSnp3vtP 6Jl74j0+uuvs337dl599VUiIiIq3X779u1069atWvssLCx0eS1AeZo2bYqvr2+19lET/P39ad68OadPn3Z6LSgoiNtuu43Fixezbt06evTo wfLly2nZsiUDBgzweK2itG3bttGvXz+ryxBukOzMJdmZ6VxyK0hO5sScuY7lyKFDCWovz1SojLRSwijR0dE0bdqU7du3k5qaytSpU+nWrRv Dhw93uf7SpUtp37494eHhjBs3j19//ZWuXbsCcPz4cYYMGUJUVBShoaHEx8eze/dupzkOHz5M8+bNq/x1+PDhWv0Z1CcnJ4ekpCSioqJcvl 58 Ef OyZcv46 quvOH780 HfffbcljY0QQgjhaSeee+6PZyq0bEmThx60 uCIzyJEF4cTbPzx27tyZzZs3M2PGDE6dOsWHH36Ij4tDiAsWLODVVIII. A standard a19lxYoVdOrUiVGjRvHNN98wdepUwP7hOSEhgbfeegtfX1+2bNni8kFuVl2zkJ+fz2+//UZISAitW7d2jCcnJxMZGem0/uTJkykoKOD66693 tk 5 qayuTJk/nmm28 cpx3dc889 vP7663Tq1 AmAffv20 aVLF/Ly8ggLC+OSSy5 xub+avmZh+fL1/P777 wCcOnWKvLw8Zs2 aBcB5553HnX feCUNGNAM and the substitution of the substitutionBSUhIdO3akb9++rF692rH9rFmz2LBhA/3796d169ZkZGTw5Zdf8v33390jRw9GjhxZ7r6HDRvGyJEj+frrr+nXrx/nn39+jX1fwn2VXZgvv JdkZy7Jzkzu5GbLyeHY90m05YbXXE0oi880wjU5DUk4cfeJwp5SfN1CYGAgzz//vMt1Vq9eTWRkJD179nSMHT16lHbt2jmaobfffpvt27cT GxvLddddxy+//FL7xQNvvPEGkydPZvLkyZw8eZKzZ886lt94441Kt+/Xrx8NGzbkrbfeYvTo0UydOpWUlBRmz57NZ599VmGzd/vttzseWCc XNnuPH374weoShJskO3NJdmZyJ7fTr776xzMVGjYkavxTNV1WnSZHFoRxhg0bVulDxMo+hwHg3XffLXVxc8+ePfnss8/Izs7m/vvvZ/z48X zxxRe1UXIpJY8SVCQ2NhattdP4DTfcwA0330Bym/T09ArnjIiIIDs7u0r7F0IIIUyXu28fyW+86ViWZypUnxxZEHVSfHw8W7duZcOGDeTk5 LBw4ULef/99x8XNK1euZNeuXdhsNjIzMzlx4gQXX3yxxVWL+srPT/5uYyrJzlySnZmqk5u22Tg2bfofz1S46CLCB/+ttkqrs6RZEE689bap 1dG7d29Gjx7NVVddRfv27dm5cyetW7d2HF1Yt24dAwYMICwsjISEBC666CImT55sbdE1oC5kVx/16dPH6hKEmyQ7c0l2ZqpObmc//LDMMxW myTMV3KBcneYgrJeYmKg3bdpU4Tq7du2iY8eONb7vzMxMGjRoUOPzitpXn7Krrd9/K2zZsoWEhASryxBukOzMJdmZqaq55Z88yf7rrseWlg ZA5IgRNBs7prbLM5ZSarPWOtHVa17TXimlfJRSY5RSu5VSOUqpw0qpeUqpKn/yUUpdo5Rap5TKVEqlKKXeV0rFlbNuI6XUIqVUUtH+diilH lQuHu2rlLpZKbVMKbVNKZWvlNJKqdgK6qjy3N7IZrNZXYJwk2RnprSi/5kJ80h25pLszFTV3E7MftrRKPi3bk2TBx+ozbLqNK9pFoAXgReA ncBI4H1gFPCZUqrSOpVSg4DPgWDgCWAOcDnwo1Iqpsy6AcAq4AFgRdH+9gCLgakupn8IGAJkA79VUkd15xZCCCGEEDUk/f/+j/Svv3YsN58 xXZ6pcA684uoepdSF2D9Ur9Ra31Ri/ACwEPsH9X9WsL0/sAg4DFymtc4oGv8K2AxMA0aU2OQ+oDswSmu9qGhsiVLqQ2CCUmqZ1vr3EuvfBR zVWhcopV4C21fw7VR3bq8TEhJidQnCTZKdmRITXR75FQaQ7Mw12ZmpstwK09M5PmOmY7nRTYNoUOI26qL6vOXIwq2AAuaXGV8CZAF3VLJ9X yAGWFrcKABorbcCq4FbihqKYrcVzbukzDzzAX/glpKDWutDWuuCyr+N6s/tjfKL7hogzCPZmenEiRNWlyDcJNmZS7IzU2W5nZw3j4KTJwHw

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Oxz/+mncxk+0Zlth6xCIUTB60N6cfW5rf0ftJBjzgZBUywopUKUUg8rpbYopbKVUnuUUq8oper70MfVSqmf1FKn1VLpSq15Sqk0ZazbUCk1 SSm1z7G/TUqpe1UZt91727dSapBSSpfx51PvfyL2SU9Pt3sIwk+SnZkkN3NJduZyyy73DMy6HfaudrVd9wbEDfG57+OOQmHLwQzAKhReG9K L6+LaVGbIAjnm7BA0xQLwGvAqsB14AJgHPAh8opSqcJxKqZuAT4FI4FHgJWAA8KNSqk2pdcOBb4B7gI8c+9sKvA08XZm+i3kPGFnqz8sVvY 9gsGvXLruHIPwk2ZlJcj0XZGeuEtnlZcOcYfD7ClfbH1+CPqN97vfEmVxGTEnm1wOnAFAKXrktjht6ta3kiAXIMWeHMLsHAKCU6oH1gX2B1 vrmYu07gf8AtwOzytm+DjAJ2ANcrLXOdLR/AawFngHGF9vkLqAv8KDWepKjLUkp9THwhFJqqtb6dz/7LrJSa/2hDz8GIYQQQgRafi7MGw1p 37varng0Ej39r718J7PyGD11NZv2uwqF126JY3DvdlU1WiECLlj0LAwFFPB6qfYk4AwwooLtBwJtgMlFH+YBtNbrgaXAEMeH/iLDHP0mler nda AOUPy co 6990 yml 6 iul 61 Yw 9qDTs WNHu 4cg/CTZmUly M5dkZ 660 HTt CQT58 fCds + 9L1wi VPwkUP + tzfqew 8Rk1J5pd9J51tL9x 0Hrf 0kUP + tzfqew 8Rk1J5pd9T51tL9x 0Hrf 0kUP + tKhKskxF3jBUiz0BQqB1cUbtdbZwHrH6xVtD7DSw2urgAZAV7DujQDigXWO/otb7RhH8f153XcpbwCZQJZSaptS6qGy7ocINtHR0XYPQfhJs 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retpe4C2wCagMda9B27raq1z1FLHHOv60zdAHrAE+BzY79j+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS43Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qNHD5YvXw5+TqyzFr2AMwW8B5RS44Fc0tSmTRuwL10KWFV0dHS0cyKSpk2b0qND5Yr4AWW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tSmTRuwW885RS44Fc0tAWFgY/fv3JzU11V0nrF0fCQkJHDp0iD179gDQpUsXIiIi2LhxIwAtWrSga9eurFhhXZ8ZERFBv379SElJ4eDBg0RFRZGYmMjevXvZt896m9 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SZxyLn5R+XQghhBDV6Kc34X//cC13uZLN3f8EoR6ffF6mrNwC7vxgDSvTjjnb/u+PZzN+QKeqGqkQQSconoaktf5FKfUWcL9SagHWzcDnYM NarCXJhYUHxayH8INmZSXIz12RngNVJ8PWTruWOg+C26YQm+/YQkey8AsZNT+GnHa5C4fGrzubugVIoBJIcc4EXFE9DA1BKhWJ9sz8eiAWO Yn1Af6r4ZGhKqWk4igWt9dJSfVwL/BU4D8gBvgMe11rv8LC/RsA/gJuw7lPYAbwNvKU9/FC87Vsp9ThwI9AZaAScBtYB72mtZ3v547D1aUh CCCFEjZA6HZY84FpufxEMnwfh9X3qpqhQ+GH7UWfbo1d2Y8IlnatqpELYqrynIQVNsSBKsrNYSE1NJT4+3pZ9i8qR7MwkuZlLsgtiP8+FBe OxrnIG2vWFkQshwprUy9vssvMKGD9jLcu3HXG2/fkPXbn/0i71bCWqixxz1cOER6eKIFI00Ycwj2RnJsnNXJJdkNq8GBbeg7NQaB0Hw+c7C wXwLrvsvALuLlUoPHKFFAp2kmMu8KRYEEIIIUTNsfULmD8WdIG13KI7jFwEkY186iYnv4B7P1zLsmKFwsTLu/DgZVIoiNpFLkMKUnZehpSZ JzkySm7kkuyCyawXMGe4qFBrHwug1HgsFKDu73PxCJswsWSg8cGlnHr5czigEAznmAk+KBeFmz549dg9B+EmyM5PkZi7JLkjsWQ0zb4P8LG u5YQyM/gQatCl7Ew/Z5eYXMmFWKt/+6ioUJlzSiUeu6IpSqsqHLXwnx1zgSbEghBBCCHPtS4UPb4a809ZyVCsYtRganeVTN3kFhdw/K5VvN ru+ub53UCf+/IduUiiIWk2KBeGmSxc51Woqyc5Mkpu5JDubHdwIMwZDjuMJOfWbW2cUmlY8UVrx7PIKCnlg1jq+LlYo3D2wI49dKYVCsJFj LvCkWBBuIiIi7B6C8JNkZybJzVySnY20bIXpN0D2CWs5srF1RqG5dzchF2WXV1DIg7PX8eWmg87Xxg/oyF+u0lsKhSAkx1zgSbEg3GzcuNH  $\verb"uiQg/SXZmktzMJdnZ5NgO+OB6000YUTmioTXhWsseXnexceNG8gsKmThnPV9sdBUKd/XvwP/9UQqFYCXHXOBJsSCEEEIIc5zYbZ1RyHR8wAlloweres with the state of the state$ +PghHzoU1vn7opKNRM/Gg9n/1ywNk29qIOPHnNOVIoCFFMmN0DEMGnRQvPj5kTwU+yM5PkZi7JLsBO7YcProOTjifihEXCsLkQc75P3eQXF DJ9m2LZLlehcMeFsfztWikUgp0cc4EnZxaEm65dZdIZU012ZpLczCXZBVDmYevSo+O7rOXQCBg6C2Iv8qmbgkLNn+ZtYNmu08620f3a8/R1 3aVQMIAcc4EnxYJws2LFCruHIPwk2Z1JcjOXZBcgp49Zlx4d224th4TBbdOh06U+dVNQqPnzvA0sXr/f2TbygvY8c30PKRQMIcdc4EmxIIQ QQojglXUcZtwIhzdbyyoUbnkful31UzcFhZpH521g4bp9zrYRF5zFszdIoSBEeaRYEG7ksWTmkuzMJLmZS7KrZjkZ80EtcPBnR40Cwe9C9x t86qawUPP4xz+zoFihcFlsBM9e31MKBcPIMRd4Smtt9xiEBwkJCTolJcXuYQghhBD2yD1tFQq7f3K13fAW9B7hUzeFhZq/LPiZuSl7nW1Dz 4/h+RvPJSRECgUhAJRSa7XWCZ5ekzMLwo0UKeaS7MwkuZlLsqsmeVkwe2jJQuHql/0qFJ5Y+EuJQmFIglUopKaurarRigCSYy7wpFgQbjIz M+0egvCTZGcmyc1ckl01yM+FuaNg5zJX25X/hPPH+dRNYaHmyUW/MGfNHmfbrX3a8a+brDMKkp2ZJLfAk2JBCCGEEMGhIA/mj4HtX7vaLv0 b9JvgUzeFhZq/Lt7I7NWuQuGWPu144ebz5NIjIXwk9ywEKTvvWcjKyiIyMtKWfYvKkezMJLmZS7KrQoUFsGAcbPzY1TbgUbj0rz51o7Xmb4 s38uGq3c62m+Lb8tItcYQWKxQkOzNJbtVD7lkQPtm7d2/FK4mgJNmZSXIz12RXRQoLYckDJQuFCx+AS570qRutNU8v2VSiUBjc271QAMnOV  ${\tt JJb4EmxINzs27ev4pVEUJLszCS5mUuyqwJaw+d/gvUzXW3nj4crngMfHmuqtebvn2xm+srfnW039GrDy7e6Fwog2Z1Kcgs8KRaEEEIIYQ+twopensets and the properties of the properti$ 4asnIOV9V1v8KLjqBZ8LhWc/3cy0n3Y5266Pa8MrZRQKQgjvSbEg3HTr1s3uIQg/SXZmktzMJdlVgtbw3bOw6m1X27m3wbWvQ4j3H0+01jz rXh/Qqt1AAyc5UklvghVW0glLqqUruY7rWelcl+xABtHnzZlq0aGH3MIQfJDszSW7mkuz89OMb8P3zruWuf4Sbp0BohR9LnLTW/OuLLUxe4 SoUrj63Fa/fXnGhAJKdqSS3wPPmqHwG0IA/F/1pYAWwy49thRBCCFHTJL8L3xT7HrLTpXDrNAit43UXWmv+/eUW31ue5my7qkcr3ri9N3W8 KBSEEN7ztoR/GFjsY99NAJ1L3UCtWrWyewjCT5KdmSQ3c012Plo7Db54zLUcezEMmQl16nrdhdaaF7/ayrvLXIXClT1aMmmYb4WCZGcmyS3 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uLg4li1bhtYapRQDBw5kw4YNHD9+HID4+HjS09PZtWuXLTllZlonuornlJmZSZ8+fSSnIM8JSh5PmZmZd07cWXIK8pzA/Xg6ffo011xzTY3 mVR1m3GZSzglKFWPMo+OsKrfX/KtjHDqCO1tqtIFFKTcd6RGtjrfWJMrafAowFOmmt00q9NhaYAgzWWi9yXB60G5ihtR7loa/dQLrWupevf TvaGgG/Aku01nc72u4ApgK3aq3n1/ezKJKQkKCLfmkDbenSpQwaNMiWfYvKkezMJLmZq8ZnV5AHc0fD1s9cbZc/A/0f9qmbuWv28PiCnyn6 yHFu24Z8eGciDesF/oxCkRqfXQ0luVUPpdRarbXHCVK8ObNQ2Rtz0ypehTNAizJeq1tsnfK2B4jwYvvy1i1av/i+f0kb4GWsy7v+UtZgg11 UVJTdQxB+kuzMJLmZq0ZnV5APC8aVLBQG/qXShULPtg1sLxSghmdXg0lugVdhsaC1DsRTfPYD3ZVSER4uRWqLdY1SWZcgFW1ft06vpV4ruq So6JKh40AWJS81AkApFQE0BZb507dSKh7rLMTTWJduFd0YXlQItVJKdQb2lHHJVVBISPBt5k0RPCQ7M0lu5qqx2RUWwuIJsGmhq+2ih2CQb 9+DzU0pWSj0aBMchQLU40xq0Mkt8KpknoUqsAZrLOcXb1RK1QV6ARVdj7PG8Xc/D69dAJwCtgForQuBVKC3ozgo7nzH0Irvz+u+gb0w7tN4 Fthe7M8LjtcnOZbPreD92Kro2kFhHsnOTJKbuWpkdlrDpxPh5zmutsR74PK/g5f34IGjUPi4ZKEw865EGtULr9rx+q1GZ1cLSG6BFyzFwkd Y90VMLNU+DqgHzCxqUEq1VkqdrZSqV2y9ZcAB4C61VFSxdeOAQcA8rXVesfVnO/otPT/CRCAfmOtn36uBWz38ecvx+iu05R0efwpBouiGIG 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dNm3aZPcQhJ8kOzNJbuYKiuzOpMOMG12FQkgY3PqBFAoVCIrshM8kt8CTYkG4OXbsmN1DEH6S7MwkuZnL9uyyT1qPRz200VpWIXDzZDj7aq +7qI2FAgRBdsIvklvgSbEghBBCmCgnAz68BQ6sdzQouPG/0GOw110s2bC/VhYKQgjvSbEg3MTFxdk9B0Enyc5Mkpu5bMsu9wzMuh32rna1X fcGxA3xuos1G/Yzcc46Z6HQpUXtKhTkuDOT5BZ4UiwINxkZGXYPQfhJsjOT5GYuW7LLy4aPhsPvxZ43/8eXoM9or7v4xE0hMHt87SkUQI47 U0lugSfFgnCTlpZm9xCEnyQ7M0lu5gp4dvm5M0802PE/V9sVz0HieK+7+GTDfh6qxWcUishxZybJLfCkWBBCCCFMUJAPH98J275wtV3yJFz 0oNddfLJhPxOL3aNQVCg0j65dhYIQwntSLAg3sbGxdg9B+EmyM5PkZq6AZVdYAIvuhV+XuNr6PwIDHvW6i6JCocBRKXSu5YWCHHdmktwCT4 oF4aZJkyZ2D0H4SbIzk+RmroBkV1gInzwEv8x1tV0wAS57CpTyqotPf3YvFGbX4kIB5LgzleQWeFIsCDepqal2D0H4SbIzk+RmrmrPTmv44 1FYN8PV1nAnXPm8T4XCQ3NKn1FIrNWFAshxZyrJLfCkWBBCCCGCkdbw9V9hzWRXW68RcPXLXhcKn/18oESh0K15fWaNS6RFdN3qGLEQogaS YkG4ady4sd1DEH6S7MwkuZmrWrP7/n1Y+aZruectcP1/IMS7/3V/9vMBHpyzrkShMHv8BVIoOMhxZybJLfCU1truMQgPEhISdEpKit3DEEI IYYf1L8H//uFaPuc6uGUqhNbxanMpFIQQv1BKrdVaJ3h6Tc4sCDfLli2zewjCT5KdmSQ3c1VLdj+9WbJQ6HIl3Py+14XC579IoeANOe7MJL kFnhQLwo2cbTKXZGcmyc1cVZ7d6iT4+knXcsdBcNt0CAv3avPPfznAA7NLFQrjpFDwRI47M0lugSfFgnCjvLxxTgQfyc5Mkpu5qjS71Bnw+  $\label{prop:condition} Z9 dy + \theta v gttn QR3 v PuiXLh Q6 Fh UKDaR Q8 ESOO z NJ bo En 9 yw EKbln QQ ghap Gf 58 GC c YD j/8 nt + sLIhRAR 7 dXmX/xygPtLF QpzpFAQQnh J7 lkQ proping to the proping of the pr$ PtmwYYPdQxB+kuzMJLmZq0qy27wYFt6Ns1BoHQfD50uhUM3kuDOT5BZ4UiwIN8ePH7d7CMJPkp2ZJDdzVTq7rV/C/LGgC6z1Ft1h5CKIbOT V5p/9XKpQaCaFgrfkuDOT5BZ4UiwIIYQQdvjt05g7EgrzreWmXWDUYqjXxKvNP/15f4mnHnVsVp8546VQEEJUrTC7ByCCT3x8vN1DEH6S7M wkuZnL7+x2rYA5w6Eg11puHAuj10BUC682/2TDfiZ+tF4uPaoE0e7MJLkFnpxZEG7S09PtHoLwk2RnJsnNXH5lt2c1zLwN8rOs5YYxMPoTa NDGq82XbNjPQ6XmUZAzCr6T485MklvgSbEg3OzatcvuIQg/SXZmktzM5XN2+9fBhzdD3mlrOaqVdelRo7O82nzx+n1MnLMOR51A5xZRMuGa n+S4M5PkFnhyGZIQQggRCAc3wozBkHPKWq7f3Dqj0LSTV5svWrePR+audxYKXVpEMWvcBTSPjqimAQshhJxZEB507NjR7iEIP012ZpLcz0V 1dke2wvQbIMvxJJfIxtYZheZdvdp84bq9JQqFri21UKgsOe7MJLkFXtAUC0qpEKXUw0qpLUqpbKXUHqXUK0qp+j70cbVS6iel1GmlVLpSap 5SqkMZ6zZUSk1SSu1z7G+TUupeVcbUgN72rZS6Rim1RCm1Syl1Ril11XCmVqpSaqJQy4jxxdLR3z/YWwUeyM5PkZi6vsju2Az64Hs4ctZYjG loTrrXs4dU+P16710fmbnAWCt1aRkuhUAXkuDOT5BZ4QVMsAK8BrwKbgQeAecCDwCdKqQrHqZS6CfgUiAQeBV4CBgA/KqXalFo3HPgGuAf4 y L G/r c D b w NOV 6 R s 4 F y g A p j j G/x T w m + P 9 f V J W M R J M Z M I T c 0 1 2 Z p L c z F V h d i d 2 W 2 c U M g 9 a y + F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t V f / z 1 + 7 l z / M 3 o B 2 F w t m t o p k 1 L p F R M G I + t O n t

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q 2 F 2 Q G 1 J 2 7 h S U 3 D b M g R I X l h Q K J h x + 9 A x c / m S F h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 2 g b W y U A B d c 2 6 m 7 N x J u Q W e 7 i y I i N Q m 1 s r h c L + 4 9 l c N 2 V x m U L h h 9 0 T e f v 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\textbf{W+fr+Y/XNJB2dE1w2Y49C2L0Ie8Lv70TgVN2blJu7lJ27lJ23lLjL00qZMcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Y49C2L0Ie8Lv70TgVN2blJu7lJ27lJ23lLjL00qZMcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Y49C2L0Ie8Lv70TgVN2blJu7lJ27lJ23lLjL00qZMcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Y49C2L0Ie8Lv70TgVN2blJu7lJ27lJ23lLjL00qZMcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9QeP7RURERPygxj/CZWVl+Xr+U2/sJW++dyd3fIyM2deflw2Mcx5nUY5hM9Q$ 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