```
{
  "nbformat": 4,
  "nbformat minor": 0,
  "metadata": {
    "colab": {
     "provenance": []
    } ,
    "kernelspec": {
      "name": "python3",
      "display name": "Python 3"
    } ,
    "language info": {
      "name": "python"
    }
  },
  "cells": [
      "cell type": "code",
      "execution count": null,
      "metadata": {
        "colab": {
          "base uri": "https://localhost:8080/",
          "height": 352
        "id": "Ac-wkGLeIsj6",
        "outputId": "e449ef25-62ff-4f95-cdc7-6e3fc98be64f"
      "outputs": [
       {
          "output_type": "execute_result",
          "data": {
            "text/plain": [
                              Date number of bedrooms number of
                          id
          living area \\\n",
bathrooms
              "0 6762810145 42491
                                                      5
2.50
             3650 \n",
             "1 6762810635 42491
                                                       4
2.50
             2920 \n",
             "2 6762810998 42491
                                                      5
2.75
             2910 \n",
              "3 6762812605 42491
                                                       4
2.50
             3310 \n",
             "4 6762812919 42491
                                                      3
2.00
             2710 \n",
              "\n",
              " lot area number of floors waterfront present
number of views \\\n",
              '' ()
                      9050
                                         2.0
                                                                0
   \n",
              "1
                     4000
                                         1.5
0
   \n",
              "2
                     9480
                                         1.5
0
  \n",
```

```
"3
                  42998
                                       2.0
                                                            0
0
   \n",
             '' 4
                    4500
                                       1.5
                                                            0
0
   \n",
             "\n",
             " condition of the house ... Built Year
Renovation Year Postal Code \\\n",
             "0
                                     5
                                                  1921
0
       122003 \n",
                                     5
                                                  1909
                                       . . .
\Omega
       122004 \n",
                                     3
                                                  1939
0
       122004 \n",
             "3
                                     3
                                                  2001
                                        . . .
0
       122005 \n",
             "4
                                     4
                                                  1929
                                       . . .
       122006 \n",
0
             "\n",
             " Lattitude Longitude living area renov
lot area renov \\n",
             "0
                  52.8645
                           -114.557
                                                  2880
5400
      \n",
             "1
                  52.8878
                           -114.470
                                                  2470
4000
      \n",
             "2
                   52.8852
                           -114.468
                                                  2940
6600
      \n",
             "3
                  52.9532 -114.321
                                                  3350
42847
      \n",
             '' 4
                  52.9047 -114.485
                                                  2060
4500
      n'',
             "\n",
             " Number of schools nearby Distance from the
          Price \n",
airport
             "()
                                       2
58 2380000 \n",
             "1
                                       2
51 1400000 \n",
             "2
                                       1
   1200000 \n",
53
             "3
                                       3
76
            \n",
    838000
             '' 4
    805000 \n",
51
             "\n",
             "[5 rows x 23 columns]"
           ],
           "text/html": [
             " <div id=\"df-c2932ec6-d2e4-4eb9-94a3-
060c7b4840f7\">\n",
             <div>\n",
             "<style scoped>\n",
                .dataframe tbody tr th:only-of-type {\n",
```

```
vertical-align: middle; \n",
   }\n",
"\n",
   .dataframe thody tr th {\n",
"
      vertical-align: top; \n",
   }\n",
"\n",
   .dataframe thead th \{\n'',
**
      text-align: right; \n",
   }\n",
"</style>\n",
"\n",
  <thead>\n",
   \n",
"
    \n",
"
    id\n",
"
    Date\n",
    number of bedrooms\n",
"
    number of bathrooms\n",
"
    living area\n",
"
    lot area\n",
"
    number of floors\n",
**
    waterfront present\n",
**
    number of views\n",
"
    condition of the house\n",
    ...\n",
"
    Built Year\n",
"
    Renovation Year\n",
"
    Postal Code\n",
11
    Lattitude\n",
**
    Longitude\n",
**
    living area renov\n",
"
    lot area renov\n",
"
    Number of schools nearby\n",
"
    Distance from the airport\n",
    Price\n",
   \n",
"
  </thead>\n",
  \n",
"
   \langle tr \rangle \n''
"
     0\n",
11
    6762810145\n",
    42491\n",
"
    5\n",
    2.50\n",
**
    3650\n",
    9050\n",
**
    2.0\n",
    0\n",
•
    4\n",
    5\n",
11
    \...\n",
    1921\n",
    0\n",
```

```
122003\n",
    52.8645\n",
    -114.557\n",
    2880\n",
11
    5400\n",
    2\n",
"
    58\n",
"
    2380000\n",
"
  \n",
  <tr>\n",
11
    1\n",
    6762810635\n",
"
    42491\n",
    4\n",
"
    2.50\n",
11
    2920\n",
    4000\n",
    1.5\n",
"
    0\n",
    0\n",
"
    5\n",
"
    \td>\\\n",
**
    1909\n",
**
    0\n",
"
    122004\n",
    52.8878\n"
"
    -114.470\n",
"
    2470\n",
"
    4000\n",
"
    2\n",
**
    51\n",
"
    1400000\n",
"
  \n",
"
  \n",
    2\n",
11
    6762810998\n",
"
    42491\n",
"
    5\n",
     2.75  n",
"
    2910\n",
"
    9480\n",
11
    1.5\n",
    0\n",
"
    0\n",
    3\n",
11
    \...\n",
    1939\n",
**
    0\n",
    122004\n",
"
    52.8852\n"
    -114.468\n",
11
    2940\n",
    6600\n",
    1\n",
```

```
"
    53\n",
    1200000\n",
"
   \n",
    n'',
11
    3\n",
    6762812605\n",
"
    42491\n",
"
    4\n",
"
    2.50\n",
    3310\n"
11
    42998\n",
    2.0\n",
"
    0\n",
"
    0\n",
"
    3\n",
11
    \...\n",
"
    2001\n",
    0\n'',
"
    122005\n",
"
    52.9532\n",
"
    -114.321\n",
"
    3350\n",
**
    42847\n",
11
    3\n",
"
    76\n",
"
    838000\n",
"
   \n",
11
   <tr>\n",
"
    4\n",
"
    6762812919\n",
    42491\n",
**
    3\n",
"
    2.00\n",
"
    2710\n",
"
    4500\n",
11
    1.5\n",
"
    0\n",
"
    0\n",
    4\n",
"
    \...\n",
"
    1929\n",
    0\n",
11
    122006\n",
**
    52.9047\n",
    -114.485\n",
11
    2060\n",
    4500\n",
11
    1\n",
"
    51\n",
"
    805000\n",
   \n",
 \n",
"\n",
"<p>5 rows \times 23 columns</p>\n",
```

```
"</div>\n",
                      <button class=\"colab-df-convert\"</pre>
onclick=\"convertToInteractive('df-c2932ec6-d2e4-4eb9-94a3-
060c7b4840f7')\"\n",
                               title=\"Convert this dataframe to an
interactive table.\"\n",
               "
                               style=\"display:none;\">\n",
                        \n",
                 <svg xmlns=\"http://www.w3.org/2000/svg\"</pre>
height=\"24px\"viewBox=\"0 0 24 24\"\n",
                       width=\"24px\">\n",
                    \phi = \mbox{"M0 Oh24v24H0V0z} \mbox{" fill=}\mbox{"none}''/>\mbox{",}
                    <path d=\"M18.56 5.441.94 2.06.94-2.06 2.06-</pre>
.94-2.06-.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06
2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-
2.06 2.06-.94-2.06-.94-.94-2.06-.94 2.06-2.06.94z\"/><path
d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0 2.83L4
21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-
2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47
1.35L5.41 20z''/>n''
               **
                  </svq>\n'',
               **
                      </button>\n",
               **
                      \n",
                  <style>\n",
                    .colab-df-container {\n",
               "
                      display:flex; \n",
               "
                      flex-wrap:wrap; \n",
               "
                      gap: 12px; \n",
               11
                    }\n",
               "\n",
               "
                    .colab-df-convert {\n",
               "
                      background-color: #E8F0FE; \n",
               "
                      border: none; \n",
                      border-radius: 50%; \n",
               11
                      cursor: pointer; \n",
               "
                      display: none; \n",
               "
                      fill: #1967D2;\n",
                      height: 32px; \n",
               "
                      padding: 0 0 0 0;\n",
               "
                      width: 32px; \n",
               "
                    }\n",
               "\n",
               "
                    .colab-df-convert:hover {\n",
                      background-color: #E2EBFA; \n",
                      box-shadow: Opx 1px 2px rgba(60, 64, 67,
0.3), 0px 1px 3px 1px rgba(60, 64, 67, 0.15); <math>n",
                      fill: #174EA6;\n",
               **
                    }\n",
               "\n",
                    [theme=dark] .colab-df-convert {\n",
               **
                      background-color: #3B4455; \n",
                      fill: #D2E3FC;\n",
                    }\n",
```

```
"\n",
                   [theme=dark] .colab-df-convert:hover {\n",
              11
                     background-color: #434B5C; \n",
                     box-shadow: Opx 1px 3px 1px rgba(0, 0, 0,
0.15); n",
                     filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3)); \n",
                    fill: #FFFFFF; \n",
              **
                  }\n",
              " </style>\n",
              "\n",
                     <script>\n",
              •
                       const buttonEl =\n'',
                         document.guerySelector('#df-c2932ec6-
d2e4-4eb9-94a3-060c7b4840f7 button.colab-df-convert'); \n",
              buttonEl.style.display =\n",
              **
                         google.colab.kernel.accessAllowed ?
'block' : 'none'; \n",
              "\n",
                      async function convertToInteractive(key)
\{ \n'',
                         const element =
document.querySelector('#df-c2932ec6-d2e4-4eb9-94a3-
060c7b4840f7');\n",
              **
                         const dataTable =\n",
                           await
google.colab.kernel.invokeFunction('convertToInteractive', \n",
[key], {}); n",
                         if (!dataTable) return; \n",
              "\n",
                        const docLinkHtml = 'Like what you see?
Visit the ' +\n'',
              11
                          '<a target=\" blank\"</pre>
href=https://colab.research.google.com/notebooks/data table.ipynb>
data table notebook</a>'\n",
                         + ' to learn more about interactive
tables.'; \n",
                        element.innerHTML = '';\n",
                         dataTable['output type'] =
'display data'; \n",
                         await
google.colab.output.renderOutput(dataTable, element); \n",
                         const docLink =
document.createElement('div'); \n",
              **
                         docLink.innerHTML = docLinkHtml; \n",
                         element.appendChild(docLink); \n",
              **
                      }\n",
                    </script>\n",
              **
                 </div>\n",
              " </div>\n",
            ]
          },
```

```
"metadata": {},
          "execution count": 12
        }
      ],
      "source": [
        "import pandas as pd\n",
        "import numpy as np\n",
        "import matplotlib.pyplot as plt\n",
        "import seaborn as sns\n",
        "df=pd.read csv('home.csv') \n",
        "df.head()"
      1
    },
      "cell type": "code",
      "source": [],
      "metadata": {
        "id": "oTiPvx420vta"
      "execution count": null,
      "outputs": []
    },
      "cell_type": "code",
      "source": [
        "from google.colab import files\n",
        "uploaded=files.upload()"
      ],
      "metadata": {
        "colab": {
          "base uri": "https://localhost:8080/",
          "height": 73
        "id": "NO UcXVoKOuR",
        "outputId": "5e19cda7-87e4-40d7-83d0-161148efb77d"
      "execution count": null,
      "outputs": [
        {
          "output type": "display data",
          "data": {
            "text/plain": [
              "<IPython.core.display.HTML object>"
            ],
            "text/html": [
              "\n",
                    <input type=\"file\" id=\"files-07f042ae-83fa-</pre>
4697-9b51-8d717c8b6fac name=\"files[]\" multiple disabled\n",
                        style=\"border:none\" />\n",
              "
                    <output id=\"result-07f042ae-83fa-4697-9b51-</pre>
8d717c8b6fac\">\n",
                     Upload widget is only available when the cell
has been executed in the n,
```

```
current browser session. Please rerun this
cell to enable. \n",
                     </output>\n",
                    <script>// Copyright 2017 Google LLC\n",
              "//\n",
              "// Licensed under the Apache License, Version 2.0
(the \"License\"); \n",
              "// you may not use this file except in compliance
with the License.\n",
              "// You may obtain a copy of the License at\n",
              "//\n",
              "//
                       http://www.apache.org/licenses/LICENSE-
2.0\n",
              "//\n",
              "// Unless required by applicable law or agreed to
in writing, software\n",
              "// distributed under the License is distributed on
an \"AS IS\" BASIS, \n",
              "// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either express or implied.\n",
              "// See the License for the specific language
governing permissions and \n",
              "// limitations under the License.\n",
              "\n",
              "/**\n",
              " * @fileoverview Helpers for google.colab Python
module.\n",
              " */\n",
              "(function(scope) {\n",
              "function span(text, styleAttributes = {}) {\n",
              " const element =
document.createElement('span'); \n",
              " element.textContent = text; \n",
              " for (const key of Object.keys(styleAttributes))
\{ \n'',
                   element.style[key] = styleAttributes[key]; \n",
              " }\n",
              " return element; \n",
              "}\n",
              "// Max number of bytes which will be uploaded at a
time.\n",
              "const MAX PAYLOAD SIZE = 100 * 1024; \n",
              "function uploadFiles(inputId, outputId) {\n",
              " const steps = uploadFilesStep(inputId,
outputId);\n",
              " const outputElement =
document.getElementById(outputId); \n",
              " // Cache steps on the outputElement to make it
available for the next call\n",
              " // to uploadFilesContinue from Python.\n",
              " outputElement.steps = steps;\n",
              "\n",
```

```
" return uploadFilesContinue(outputId); \n",
              "}\n",
              "\n",
              "// This is roughly an async generator (not
supported in the browser yet), \n",
              "// where there are multiple asynchronous steps and
the Python side is going\n",
              "// to poll for completion of each step.\n",
              "// This uses a Promise to block the python side on
completion of each step,\n",
              "// then passes the result of the previous step as
the input to the next step.\n",
              "function uploadFilesContinue(outputId) {\n",
              " const outputElement =
document.getElementById(outputId); \n",
              " const steps = outputElement.steps; \n",
              "\n",
              " const next =
steps.next(outputElement.lastPromiseValue); \n",
              " return
Promise.resolve(next.value.promise).then((value) => {\n",
                   // Cache the last promise value to make it
available to the next\n",
                  // step of the generator.\n",
                  outputElement.lastPromiseValue = value; \n",
                  return next.value.response; \n",
              " });\n",
              "}\n",
              "\n",
              "/**\n",
              " * Generator function which is called between each
async step of the upload\n",
              " * process.\n",
              " * @param {string} inputId Element ID of the input
file picker element.\n",
              " * @param {string} outputId Element ID of the
output display.\n",
              " * @return {!Iterable<!Object>} Iterable of next
steps.\n",
              " */\n",
              "function* uploadFilesStep(inputId, outputId) {\n",
              " const inputElement =
document.getElementById(inputId); \n",
              " inputElement.disabled = false; \n",
              "\n",
              " const outputElement =
document.getElementById(outputId); \n",
              " outputElement.innerHTML = '';\n",
                const pickedPromise = new Promise((resolve) =>
\{ \n'',
                   inputElement.addEventListener('change', (e) =>
\{ n'',
                     resolve(e.target.files); \n",
```

```
" });\n",
              " });\n",
              "\n",
              " const cancel =
document.createElement('button'); \n",
inputElement.parentElement.appendChild(cancel); \n",
              " cancel.textContent = 'Cancel upload'; \n",
                const cancelPromise = new Promise((resolve) =>
\{ \n'',
                   cancel.onclick = () \Rightarrow {\n",
                     resolve(null); \n",
              "
                   };\n",
              "
                });\n",
              "\n",
              " // Wait for the user to pick the files.\n",
                const files = yield {\n",
                   promise: Promise.race([pickedPromise,
cancelPromise]),\n",
                   response: {\n",
                     action: 'starting',\n",
                   }\n",
              " };\n",
              "\n",
              " cancel.remove(); \n",
              "\n",
              " // Disable the input element since further picks
are not allowed. \n",
              " inputElement.disabled = true; \n",
              "\n",
              " if (!files) {\n",
                  return {\n",
              •
                     response: {\n",
                        action: 'complete', \n",
                     }\n",
                   };\n",
              "
                }\n",
              "\n",
                for (const file of files) {\n",
                   const li = document.createElement('li');\n",
                   li.append(span(file.name, {fontWeight:
'bold'})); \n",
                   li.append(span(\n",
                        `(${file.type || 'n/a'}) - ${file.size}
bytes, +\n'',
                        `last modified: ${\n",
                            file.lastModifiedDate ?
file.lastModifiedDate.toLocaleDateString() :\n",
                                                     'n/a'} -
`));\n",
                  const percent = span('0% done'); \n",
                  li.appendChild(percent); \n",
              "\n",
                   outputElement.appendChild(li); \n",
```

```
"\n",
                   const fileDataPromise = new Promise((resolve)
=> {\n",
                      const reader = new FileReader(); \n",
               11
                      reader.onload = (e) \Rightarrow {\n",
                        resolve(e.target.result); \n",
               "
                      };\n",
               "
                      reader.readAsArrayBuffer(file); \n",
               11
                    });\n",
                    // Wait for the data to be ready. \n",
               11
                    let fileData = yield {\n",
                      promise: fileDataPromise, \n",
               •
                      response: {\n",
                        action: 'continue', \n",
               "
                      }\n",
               **
                    };\n",
               "\n",
                    // Use a chunked sending to avoid message size
limits. See b/62115660.\n",
                    let position = 0; n'',
                    do \{ n'',
                      const length = Math.min(fileData.byteLength -
position, MAX PAYLOAD SIZE); \n",
                      const chunk = new Uint8Array(fileData,
position, length);\n",
                      position += length; \n",
               "\n",
                      const base64 =
btoa(String.fromCharCode.apply(null, chunk)); \n",
                      yield {\n",
               **
                        response: {\n",
                          action: 'append', \n",
                          file: file.name, \n",
                          data: base64, \n",
               "
                        },\n",
               11
                      };\n",
               "\n",
                      let percentDone = fileData.byteLength === 0
?\n",
                          100 :\n",
                          Math.round((position /
fileData.byteLength) * 100);\n",
                      percent.textContent = `${percentDone}%
done`;\n",
               "\n",
                  } while (position < fileData.byteLength); \n",</pre>
               " }\n",
               "\n",
               " // All done.\n",
                 yield \{\n'',
                   response: {\n",
               **
                      action: 'complete', \n",
                   }\n",
                };\n",
```

```
"}\n",
              "\n",
              "scope.google = scope.google || {}; \n",
              "scope.google.colab = scope.google.colab || {}; \n",
              "scope.google.colab. files = {\n",
              " _uploadFiles,\n",
                  uploadFilesContinue, \n",
              "};\n",
              "})(self);\n",
              "</script> "
            ]
          },
          "metadata": {}
        },
          "output type": "stream",
          "name": "stdout",
          "text": [
            "Saving home.csv to home.csv\n"
        }
      ]
    },
      "cell type": "code",
      "source": [
        "plt.hist(df['Date'])"
      "metadata": {
        "colab": {
          "base uri": "https://localhost:8080/",
          "height": 517
        "id": "bPf69WykKRTv",
        "outputId": "fb6f1a15-9c6b-4ac2-fd7a-7242201256b7"
      "execution count": null,
      "outputs": [
          "output type": "execute result",
          "data": {
            "text/plain": [
              "(array([1407., 1700., 1644., 1840., 1503., 1456.,
1365., 1427., 1213.,\n",
                        1065.]), \n",
              " array([42491. , 42515.3, 42539.6, 42563.9,
42588.2, 42612.5, 42636.8,\n",
                        42661.1, 42685.4, 42709.7, 42734. ]),\n",
              " <BarContainer object of 10 artists>)"
            ]
          },
          "metadata": {},
          "execution count": 15
        },
```

```
"output_type": "display_data",
"data": {
   "text/plain": [
      "<Figure size 640x480 with 1 Axes>"
],
   "image/png":
```

"iVBORw0KGqoAAAANSUhEUqAAAjAAAAGdCAYAAAAMm0nCAAAAOXRFWHRTb2Z0d2FyZ QBNYXRwbG90bGliIHZlcnNpb24zLjcuMSwqaHR0cHM6Ly9tYXRwbG90bGliLm9yZy/ bCgiHAAAACXBIWXMAAA9hAAAPYOGoP6dpAAApSUlEOVR4nO3df1xVdZ7H8fcFvBcxL 4qEFzZCcyYU87fJsKnZaKCyNm3ONqWpM7naNGqljUPMOoa2G67OWNZabVvKzq6m9dq yV1sfgmbMKv4I1/BXPNR0sJWLWypXbEJ+nP1jHp7pDlhi9wJffD0fj/N4cL7fzznne 74PvPftuedcHJZlWQIAADBISHsPAAAAoLUIMAAAwDgEGAAAYBwCDAAAMA4BBgAAGIc AAwAAjEOAAQAAxiHAAAAA44S19wCCpampSadPn1b37t3lcDjaezqAAOAqWJalCxcuK CEhQSEhV7700mkDzOnTp5WYmNjewwAAANfq1K1Tuummm67Y32kDTPfu3SX9cQLcbnc 7jwYAAFwNn8+nxMRE+338SjptgLn8sZHb7SbAAABgmG+6/YObeAEAgHEIMAAAwDgEG AAAYBwCDAAAMA4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAADAOAQYAAB gHAIMAAAwDgEGAAAYhwADAACME9beAwA6m15PbW7vIbTaySWZ7T0EAGgVrsAAAADjE GAAAIBxCDAAAMA4BBgAAGAcAgwAADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAA AqHEIMAAAwDqEGAAAYJxWB5ji4mJNmjRJCQkJcjqc2rBhq1+/w+FocVm2bJld06tXr 2b9S5Ys8dtPeXm5RoOapfDwcCUmJmrpOqXXdoYAAKDTaXWAuXjxoqYNGqSVK1e22F9 VVeW3rFq1Sq6HQ5MnT/arW7x4sV/d3L1z7T6fz6f09HQ1JSWptLRUy5YtU15en1599 dXWDhcAAHRCYa3dYMKECZowYcIV+z0ej9/6u+++q7vuuku33HKLX3v37t2b1V62Zs0 aXbp0SatWrZLT6VT//v1VVlam5cuXa/bs2a0dMqAA6GSCeq9MdXW1Nm/erJkzZzbrW 7JkiXr27KkhQ4Zo2bJlamhosPtKSko0evRoOZ1Ouy0jI0MVFRU6d+5ci8eqq6uTz+f zWwAAQOfU6iswrfGv//qv6t69u+677z6/9scee0xDhw5VdHS0du3apdzcXFVVVWn58 uWSJK/Xq969e/ttExcXZ/f16NGj2bHy8/O1aNGiIJ0JAADoSIIaYFatWqWpU6cqPDz crz0709v+eeDAqXI6nXrkkUeUn58v18t1TcfKzc3126/P51NiYuK1DRwAAHRoQQswv /vd71RRUaH169d/Y21qaqoaGhp08uRJJScny+PxqLq62q/m8vqV7ptxuVzXHH4AAIB ZgnYPzOuvv65hw4Zp0KBB31hbVlamkJAQxcbGSpLS0tJUXFys+vp6u6awsFDJycktf nwEAACuL600MLW1tSorK1NZWZkk6cSJEyorK1NlZaVd4/P59NZbb+lv//Zvm21fUlK i559/Xh999JE++eQTrVmzRvPmzdNDDz1kh5MpU6bI6XRq5syZOnTokNavX68VK1b4f UQEAACuX63+COnDDz/UXXfdZa9fDhUzZsxQQUGBJGndunWyLEsPPvhqs+1dLpfWrVu nvLw81dXVqXfv3po3b55f0ImMjNTWrVuV1ZW1YcOGKSYmRqsXLuQRaqAAIE1yWJZ1t fcggsHn8ykyMlI1NTVyu93tPRxcR3o9tbm9h9BqJ5dktvcQAEDS1b9/87eQAACAcQg wAADAOAQYAABgnKB+kR06DhPvy5C4NwMA0DKuwAAAAOMQYAAAgHEIMAAAwDgEGAAAY BwCDAAAMA4BBgAAGIcAAwAAjEOAAQAAxiHAAAAA4xBgAACAcfhTAujQTP0TCACA40I KDAAAMA4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAADAOAQYAABqHAIMA AAWDqEGAAAYhwADAACMQ4ABAADGIcAAAADjEGAAAIBxCDAAAMA4BBqAAGAcAqwAADA OAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAAAgHFaHWCKi4s1adIkJSQkyOFwaMOGD X79P/7xj+VwOPyW8ePH+9WcPXtWU6dOldvtV1RU1GbOnKna2lq/mvLyco0aNUrh4eF KTEzU0qVLW392AACqU2p1qL148aIGDRqklStXXrFm/Pjxqqqqspc33njDr3/q1Kk6d OiQCgsLtWnTJhUXF2v27N12v8/nU3p6upKSk1RaWqply5YpLy9Pr776amuHCwAAOqG wlm4wYcIETZgw4WtrXC6XPB5Pi31HjhzRli1btG/fPg0fPlyS90KLL2rixIn69a9/r YSEBK1Zs0aXLl3SqlWr5HQ61b9/f5WVlWn58uV+QQcAAFyfqnIPzI4d0xQbG6vk5GQ 9+uij+vzzz+2+kpISRUVF2eFFksaNG6eQkBDt2bPHrhk9erScTqddk5GRoYqKCp07d 67FY9bV1cnn8/ktAACqc2r1FZhvMn78eN13333q3bu3jh8/r1/+8peaMGGCSkpKFBo aKq/Xq9jYWP9BhIUpOjpaXq9XkuT1etW7d2+/mri4OLuvR48ezY6bn5+vRYsWBfp0g OtCr6c2t/cQWu3kksz2HgKAdhTwAPPAAw/YPw8YMEADBw5Unz59tGPHDo0dOzbQh7P 15uYqOzvbXvf5fEpMTAza8QAAQPsJ+mPUt9xyi2JiYnTs2DFJksfj0ZkzZ/xqGhoad PbsWfu+GY/Ho+rqar+ay+tXurfG5XLJ7Xb7LQAAoHMKeoD59NNP9fnnnys+P16S1Ja WpvPnz6u0tNSu2b59u5qampSammrXFBcXq76+3q4pLCxUcnJyix8fAQCA60urA0xtb a3KyspUVlYmSTpx4oTKyspUWVmp2tpazZ8/X7t379bJkye1bds2/eAHP9B3vvMdZWR kSJL69eun8ePHa9asWdq7d6927typOXPm6IEHH1BCQoIkacqUKXI6nZo5c6YOHTqk9

evXa8WKFX4fEQEAgOtXqwPMhx9+qCFDhmjIkCGSpOzsbA0ZMkQLFy5UaGioysvLdc8 99+jWW2/VzJkzNWzYMP3ud7+Ty+Wy97FmzRr17dtXY8eO1cSJEzVy5Ei/73iJjIzU1 q1bdeLECQ0bNkxPPvmkFi5cyCPUAABAkuSwLMtq70EEg8/nU2RkpGpqarqfRmY+ZQJ 8HZ5CAjqnq33/5m8hAQAA4xBqAACAcQL+PTAA0BZM/FiUj72Aw0EKDAAAMA4BBqAAG ICAAWAA jEOAAQAAxuEmXgDAFXGzNDoqrsAAAAD jEGAAAIBxCDAAAMA43ANzDUz8TBg AgM6EKzAAAMA4BBgAAGAcAgwAADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOPwPTAA0 Eb4DikgcLgCAwAAjEOAAQAAxiHAAAAA4xBgAACAcQgwAADAOAQYAABgHAIMAAAwDgE GAAAYhwADAACMQ4ABAADGIcAAAADjEGAAAIBxCDAAAMA4BBqAAGAcAqwAADAOAQYAA BiHAAMAAIzT6qBTXFysSZMmKSEhQQ6HQxs2bLD76uvrlZOTowEDBqhbt25KSEjQ9On Tdfr0ab9990rVSw6Hw29ZsmSJX015eblGjRq18PBwJSYmaunSpdd2hqAAoNNpdYC5e PGiBg0apJUrVzbr++KLL7R//3796le/0v79+/X222+roqJC99xzT7PaxYsXq6qqyl7 mzp1r9/18PqWnpyspKUmlpaVatmyZ8vLy9Oqrr7Z2uAAAoBMKa+0GEyZM0IQJE1rsi 4yMVGFhoV/bP/3TP2nEiBGqrKzUzTffbLd3795dHo+nxf2sWbNGly5d0qpVq+R0OtW /f3+V1ZVp+fLlmj17dmuHDAAAOpmg3wNTU1Mjh8OhgKgov/Y1S5aoZ8+eGjJkiJYtW 6aGhqa7r6SkRKNHj5bT6bTbMjIyVFFRoXPnzrV4nLq6Ov18Pr8FAAB0Tq2+AtMaX37 5pXJycvTqqw/K7Xbb7Y899piGDh2q6Oho7dq1S7m5uaqqqtLy5cs1SV6vV7179/bbV 1xcnN3Xo0ePZsfKz8/XokWLqnq2AACqowhaqKmvr9f9998vy7L08ssv+/V1Z2fbPw8 cOFBOp1OPPPKI8vPz5XK5rul4ubm5fvv1+XxKTEy8tsEDAIAOLSgB5nJ4+f3vf6/t2 7f7XX1pSWpqqhoaGnTy5EklJyfL4/Gourrar+by+pXum3G5XNccfgAAqFkCfg/M5fB y90hRFRUVqWfPnt+4TV1ZmUJCQhQbGytJSktLU3Fxserr6+2awsJCJScnt/jxEQAAu L60+gpMbW2tjh07Zq+fOHFCZWVlio60Vnx8vH74wx9q//792rRpkxobG+X1eiVJ0dH RcjqdKikp0Z49e3TXXXepe/fuKikp0bx58/TQQw/Z4WTKlClatGiRZs6cqZycHB08e FArVqzQc889F6DTBqAAJnNYlmW1ZoMdO3borrvuatY+Y8YM5eX1Nbv59rL3339fY8a M0f79+/Wzn/1MH3/8serq6tS7d29NmzZN2dnZfh8BlZeXKysrS/v27VNMTIzmzp2rn Jycqx6nz+dTZGSkampqvvEjrNbq9dTmgO4PABA4J5dktvcQ8C1c7ft3qwOMKQgwAHB 9IsCY7Wrfv4P6GDUAAG3NxP9kErpajz/mCAAAjEOAAQAAxiHAAAAA4xBgAACAcQgwA ADAOAQYAABqHAIMAAAwDqEGAAAYhwADAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA 4BBqAAGAcAqwAADAOAQYAABiHAAMAAIxDqAEAAMYhwAAAAOMQYAAAqHEIMAAAwDqEG AAAYBwCDAAAMA4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAccLaewAAAFzvej2 1ub2H0Gon12S26/G5AgMAAIxDgAEAAMYhwAAAAOMQYAAAgHEIMAAAwDgEGAAAYBwCD AAAME6rA0xxcbEmTZqkhIQEORwObdiwwa/fsiwtXLhQ8fHx6tq1q8aNG6ejR4/61Zw 9e1ZTp06V2+1WVFSUZs6cqdraWr+a8vJyjRo1SuHh4UpMTNTSpUtbf3YAAKBTanWAu XjxoqYNGqSVK1e22L906VK98MILeuWVV7Rnzx5169ZNGRkZ+vLLL+2aqVOn6tChQyo sLNSmTZtUXFys2bNn2/0+n0/p6elKSkpSaWmpli1bpry8PL366qvXcIoAAKCzcViWZ V3zxg6H3nnnHd17772S/nj1JSEhQU8++aR+/v0fS5JqamoUFxengoICPfDAAzpy5Ih SU1K0b98+DR8+XJK0ZcsWTZw4UZ9++qkSEhL08ssv6+/+7u/k9XrldDo1SU899ZQ2b Nigjz/++KrG5vP5FBkZqZqaGrnd7ms9xRaZ+I2JAAAEUrC+ifdq378Deg/MiRMn5PV 6NW7cOLstMjJSqampKikpkSSVlJQoKirKDi+SNG7cOIWEhGjPnj12zejRo+3wIkkZG RmqqKjQuXPnWjx2XV2dfD6f3wIAADqnqAYYr9crSYqLi/Nrj4uLs/u8Xq9iY2P9+sP CwhQdHe1X09I+vnqMP5efn6/IyEh7SUxM/PYnBAAAOqRO8xRSbm6uampq7OXUqVPtP SQAABAkAQOwHo9HklRdXe3XXl1dbfd5PB6dOXPGr7+hoUFnz571q2lpH189xp9zuVx yu91+CwAA6JwCGmB69+4tj8ejbdu22W0+n0979uxRWlqaJCktLU3nz59XaWmpXbN9+ 3Y1NTUpNTXVrikuLlZ9fb1dU1hYqOTkZPXo0SQQwYAAAZqdYCpra1VWVmZysrKJP3 xxt2ysjJVVlbK4XDoiSee0N///d9r48aNOnDggKZPn66EhAT7SaV+/fpp/PjxmjVrl vbu3aud03dqzpw5euCBB5SQkCBJmjJlipxOp2bOnKlDhw5p/fr1WrFihbKzswN24qA AwFxhrd3gww8/1F133WWvXw4VM2bMUEFBgX7xi1/o4sWLmj17ts6fP6+RI0dqy5YtC q8Pt7dZs2aN5syZo7FjxyokJESTJ0/WCy+8YPdHRkZq69atysrK0rBhwxQTE60FCxf 6fVcMAAC4fn2r74HpyPgeGAAAgqdTfQ8MAABAWyDAAAAA4xBgAACAcQgwAADAOAQYA ABGHAIMAAAwDgEGAAAYhwADAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA4BBGAAGA cAgwAADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAAAgHEIMAAAwDgEGAAAYBwCD AAAMA4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAADAOAQYAABqHAIMAAA wDgEGAAAYhwADAACMQ4ABAADGIcAAAADjEGAAAIBxCDAAAMA4BBgAAGCcgAeYXr16y eFwNFuysrlkSWPGjGnW990f/tRvH5WVlcrMzFRERIRiY2M1f/58NTQ0BHqoAADAUGG B3uG+ffvU2Nhorx88eFB33323/uZv/sZumzVrlhYvXmyvR0RE2D83NjYqMzNTHo9Hu

3btUlVVlaZPn64uXbro2WefDfRwAQCAgQIeYG688Ua/9SVLlqhPnz6688477baIiAh 5PJ4Wt9+6dasOHz6soqIixcXFafDqwXrmmWeUk5OjvLw8OZ3OOA8ZAAAYJqj3wFy6d En//u//rocfflgOh8NuX7NmjWJiYnTbbbcpNzdXX3zxhd1XUlKiAQMGKC4uzm7LyMi Qz+fToUOHrnisuro6+Xw+vwUAAHROAb8C81UbNmzQ+fPn9eMf/9humzJlipKSkpSQk KDy8nLl5OSooqJCb7/9tiTJ6/X6hRdJ9rrX673isfLz87Vo0aLAnwQAAOhwghpgXn/ 9dU2YMEEJCQ122+zZs+2fBwwYoPj4eI0dO1bHjx9Xnz59rv1Yubm5ys7Ottd9Pp8SE xOveX8AAKDjClqA+f3vf6+ioiL7ysqVpKamSpKOHTumPn36yOPxaO/evX411dXVknT F+2YkyeVyyeVyfctRAwAAEwTtHpjVq1crNjZWmZmZX1tXV1YmSYqPj5ckpaW16cCBA zpz5oxdU1hYKLfbrZSU1GANFwAAGCQoV2Campq0evVqzZqxQ2FhfzrE8ePHtXbtWk2 cOFE9e/ZUeXm55s2bp9GjR2vgwIGSpPT0dKWkpGjatGlaunSpvF6vFixYoKysLK6wA AAASUEKMEVFRagsrNTDDz/s1+500lVUVKTnn39eFy9eVGJioiZPngwFCxbYNaGhodq 0aZMeffRRpaWlqVu3bpoxY4bf98YAAIDrW1ACTHp6uizLataemJioDz744Bu3T0pK0 nvvvReMoQEAgE6Av4UEAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA4BBgAAGACAgw AADAOAQYAABiHAAMAAIxDqAEAAMYhwAAAAOMQYAAAqHEIMAAAwDqEGAAAYBwCDAAAM A4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAADAOAQYAABqHAIMAAAwDqE GAAAYhwADAACMQ4ABAADGIcAAAADjEGAAAIBxCDAAAMA4BBqAAGAcAqwAADAOAQYAA BiHAAMAAIxDqAEAAMYhwAAAAOMQYAAAqHECHmDy8vLkcDj8lr59+9r9X375pbKystS zZ0/dcMMNmjx5sqqrq/32UV1ZqczMTEVERCq2Nlbz589XQ0NDoIcKAAAMFRaMnfbv3 19FRUV/OkjYnw4zb948bd68WW+99ZYiIyM1Z84c3Xfffdq5c6ckqbGxUZmZmfJ4PNq 1a5eqqqo0ffp0denSRc8++2wwhqsAAAwTlAATFhYmj8fTrL2mpkavv/661q5dq+9// /uSpNWrV6tfv37avXu3vve972nr1q06fPiwioqKFBcXp8GDB+uZZ55RTk608vLy5HQ 6qzFkAABqkKDcA3P06FElJCTolltu0dSpU1VZWSlJKi0tVX19vcaNG2fX9u3bVzfff LNKSkokSSUlJRowYIDi4uLsmoyMDPl8Ph06dCqYwwUAAIYJ+BWY1NRUFRQUKDk5WVV VVVq0aJFGjRqlqwcPyuv1yul0Kioqym+buLq4eb1eSZLX6/ULL5f7L/ddSV1dnerq6 ux1n88XoDMCAAAdTcADzIQJE+yfBw4cqNTUVCUlJenNN99U165dA304W35+vhYtWhS 0/QMAqI4j6I9RR0VF6dZbb9WxY8fk8Xh06dIlnT9/3q+murravmfG4/E0eyrp8npL9 9Vclpubq5qaGns5depUYE8EAAB0GEEPMLW1tTp+/Lji4+M1bNgwdenSRdu2bbP7Kyo qVFlZqbS0NElSWlqaDhw4oDNnztq1hYWFcrvdSklJueJxXC6X3G633wIAADqnqH+E9 POf/1yTJk1SU1KSTp8+raeff1qhoaF68MEHFRkZqZkzZyo7O1vR0dFyu92aO3eu0tL S9L3vfU+SlJ6erpSUFE2bNk1Lly6V1+vVggULlJWVJZfLFejhAgAAAwU8wHz66ad68 MEH9fnnn+vGG2/UyJEjtXv3bt14442SpOeee04hISGaPHmy6urqlJGRoZdeesnePjQ 0VJs2bdKjjz6qtLQ0devWTTNmzNDixYsDPVQAAGAoh2VZVnsPIhh8Pp8iIyNVU1MT8 I+Tej210aD7AwDANCeXZAZ1v1f7/s3fQqIAAMYhwAAAAOMQYAAAqHEIMAAAwDqEGAA AYBwCDAAAMA4BBqAAGIcAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAADAOAQYAABqH AIMAAAwDgEGAAAYhwADAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA4BBgAAGACAgw AADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAAAgHEIMAAAwDgEGAAAYBwCDAAAM A4BBgAAGIcAAwAAjEOAAQAAxiHAAAAA4xBgAACAcQgwAADAOAQYAABgnIAHmPz8fN1 +++3q3r27YmNjde+996qiosKvZsyYMXI4HH7LT3/6U7+ayspKZWZmKiIiQrGxsZo/f 74aGhoCPVwAAGCqsEDv8IMPPlBWVpZuv/12NTQ06Je//KXS09N1+PBhdevWza6bNWu WFi9ebK9HRETYPzc2NiozM1Mej0e7du1SVVWVpk+fri5duujZZ58N9JABAIBhAh5gt mzZ4rdeUFCg2NhYlZaWavTo0XZ7RESEPB5Pi/vYunWrDh8+rKKiIsXFxWnw4MF65pl nlJOTo7y8PDmdzkAPGwAAGCTo98DU1NRIkqKjo/3a16xZo5iYGN12223Kzc3VF198Y feVlJRowIABiouLs9syMjLk8/106NChFo9TV1cnn8/ntwAAgM4p4FdgvqqpqUlPPPG E7rjjDt122212+5QpU5SUlKSEhASVl5crJydHFRUVevvttyVJXq/XL7xIste9Xm+Lx 8rPz9eiRYuCdCYAAKAjCWqAycrK0sGDB/Xf//3ffu2zZ8+2fx4wYIDi4+M1duxYHT9 +XH369LmmY+Xm5io709te9/18SkxMvLaBAwCADi1oHyHNmTNHmzZt0vvvv6+bbrrpa 2tTU1MlSceOHZMkeTweVVdX+9VcXr/SfTMul0tut9tvAQAAnVPAA4xlWZozZ47eeec dbd++Xb179/7GbcrKyiRJ8fHxkqS0tDQdOHBAZ86csWsKCwvldruVkpIS6CEDAADDB PwjpKysLK1du1bvvvuuunfvbt+zEhkZqa5du+r48eNau3atJk6cqJ49e6q8vFzz5s3 T6NGjNXDqQElSenq6UlJSNG3aNC1dulRer1cLFixQVlaWXC5XoIcMAAAME/ArMC+// LJqamo0ZswYxcfH28v69es1SU6nU0VFRUpPT1ffvn315JNPavLkyfrP//xPex+hoaH atGmTQkNDlZaWpoceekjTp0/3+94YAABw/Qr4FRjLsr62PzExUR988ME37icpKUnvv fdeoIYFAAA6Ef4WEqAAMA4BBqAAGICAAwAAjEOAAQAAxiHAAAAA4xBqAACAcQqwAAD AOAQYAABqHAIMAAAwDqEGAAAYhwADAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA4B

BgAAGAcAgwAADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAAAgHEIMAAAwDgEGAA AYBwCDAAAMA4BBgAAGIcAAwAAjEOAAOAAxiHAAAAA4xBgAACAcOgwAADAOAOYAABgH AIMAAAwDqEGAAAYhwADAACMQ4ABAADGICAAAADjdOqAs3LlSvXq1Uvh4eFKTU3V3r1 723tIAACqA+iwAWb9+vXKzs7W008/rf3792vQoEHKyMjQmTNn2ntoAACqnXXYALN8+ XLNmjVLP/nJT5SSkqJXXn1FERERWrVqVXsPDQAAtLOw9h5ASy5duqTS01L15ubabSE hIRo3bpxKSkpa3Kaurk51dXX2ek1NjSTJ5/MFfHxNdV8EfJ8AAJgkGO+vX92vZVlfW 9chA8xnn32mxsZGxcXF+bXHxcXp448/bnGb/Px8LVq0qF17YmJiUMYIAMD1LPL5407 /woULioyMvGJ/hwww1yI3N1fZ2dn2elNTk86ePauePXvK4XC048ia8/18SkxM1KlTp +R2u9t70NcF5rztMedti/lue8x5cFiWpQsXLighIeFr6zpkgImJiVFoaKiqq6v92qu rg+XxeFrcxuVyyeVy+bVFRUUFa4qB4Xa7+aVvY8x522PO2xbz3faY88D7uisv13XIm 3idTqeGDRumbdu22W1NTU3atm2b0tLS2nFkAACgI+iQV2AkKTs7WzNmzNDw4cM1YsQ IPf/887p48aJ+8p0ftPfQAABAO+uwAeZHP/qR/u//k8LFy6U1+vV4MGDtWXLlmY39 prI5XLp6aefbvaRF4KHOW97zHnbYr7bHnPevhzWNz2nBAAA0MF0yHtgAAAAvg4BBgA AGICAAwAA; EOAAQAAxiHAXIMlS5bI4XDoiSeekCSdPXtWc+fOVXJysrp27aqbb75Z; z32mP33mC5z0BzNlnXr1vnV7NixQ00HDpXL5dJ3vvMdFRQUNDv+ypUr1atXL4WHhys 1NVV79+4N1q12GMGa8x07drRY4/V6/fZzvc35tc63JBUUFGjqwIEKDw9XbGyssrKy/ PrLy8s1atQohYeHKzExUUuXLm22j7feekt9+/ZVeHi4BqwYoPfeey8o59mRBGvOT54 82eLv+07du/32wZxf3ZwXFBS00J80h0Nnzpyx63gtbwMWWmXv3r1Wr169rIEDB1qPP /64ZVmWdeDAAeu+++6zNm7caB07dszatm2b9d3vfteaPHmy37aSrNWrV1tVVVX28oc //MHu/+STT6yIiAgrOzvbOnz4sPXiiy9aoaGh1pYtW+yadevWWU6n01g1apV16NAha 9asWVZUVJRVXV3dJuffHoI55++//74lyaqoqPCraWxstGuutzn/NvP9m9/8xkpISLD WrFljHTt2zProo4+sd9991+6vgamx4uLirKlTp1oHDx603njjDatr167WP//zP9s10 3futEJDQ621S5dahw8fthYsWGB16dLFOnDqQJucf3sI5pyfOHHCkmQVFRX5/Y5funT JrmHOH7cs6+rm/IsvvvCbx6qqKisjI8O688477Rpey9sGAaYVLly4YH33u9+1CgsLr TvvvNP+pW/Jm2++aTmdTqu+vt5uk2S98847V9zmF7/4hdW/f3+/th/96EdWRkaGvT5 ixAgrKyvLXm9sbLQSEhKs/Pz81p+QAYI955cDzLlz565Ycz3N+beZ77Nnz1pdu3a1i ogKrrjNSy+9ZPXo0cOgg6uz23Jycgzk5GR7/f7777cyMzP9tktNTbUeeeSRazyrji3 Yc345wPzP//zPFWuY88evWNvS68pXnTlzxurSpYv129/+1m7jtbxt8BFSK2RlZSkzM 1Pjxo37xtqamhq53W6Fhf1/V2BWVpZiYmI0YsQIrVq1yu/PhZeUlDTbd0ZGhkpKSiR Jly5dUmlpqV9NSEiIxo0bZ9d0NsGe88sGDx6s+Ph43X333dq5c6fdfr3N+beZ78LCQ jU1Nel///d/1a9fP9100026//77derUKXubkpISjR49Wk6n027LyMhQRUWFzp07Z9d 83b+DzibYc37ZPffco9jYWI0cOVIbN27062POr+xKryuX/fa3v1VERIR++MMf2m281 reNDvtNvB3NunXrtH//fu3bt+8baz/77DM988wzmj17t1/74sWL9f3vf18RERHaunW rfvazn6m2tlaPPfaYJMnr9Tb7puG4uDj5fD794Q9/0Llz59TY2Nhizccff/wtz7Dja Ys5j4+P1yuvvKLhw4errq5Or732msaMGaM9e/Zo6NCh+uyzz66bOf+28/3JJ5+oqal Jzz77rFasWKHIyEqtWLBAd999t8rLy+V00uX1etW7d2+/fV2eW6/Xqx49elzx38Gf3 5fUGbTFnN9www36zW9+ozvuuEMhISH6j//4D917773asGGD7rnnHklXfu1hzlt+Xfm q119/XVOmTFHXrl3tNl7L2wYB5iqcOnVKjz/+uAoLCxUeHv61tT6fT5mZmUpJSVFeX p5f369+9Sv75yFDhujixYtatmyZ/WaKP2mrOU9OT1ZycrJd85d/+Zc6fvy4nnvuOf3 bv/1b4E6ogwvEfDc1Nam+v14vvPCC0tPTJUlvvPGGPB6P3n//fWVkZATzFIzTVnMeE xOj70xse5vbb79dp0+f1rJly+wAc70I10vKZSUlJTpy5Mh19VrRkfAR0lUoLS3VmTN nNHToUIWFhSksLEwffPCBXnjhBYWFhamxsVGSdOHCBY0fP17du3fXO++8oy5dunztf lNTU/Xpp5+qrq5OkuTxeFRdXe1XU11dLbfbra5duyomJkahoaEt1ng8ngCecftrqzl vyYgRI3Ts2DFJum7mPBDzHR8fL01KSUmx22688UbFxMSosrJS0pV/xy/3fV1NZ5pvq e3mvCWpqan277jEnF/r68prr72mwYMHa9iwYX7tvJa3DQLMVRq7dqwOHDiqsrIyexk +fLimTp2qsrIyhYaGyufzKT09XU6nUxs3bvzGdC9JZWV16tGjh/2HwNLS0rRt2za/m sLCQqWlpUmSnE6nhq0b51fT1NSkbdu22TWdRVvN+ZVqLr8xXC9zHoj5vu000yRJFRU VdtvZs2f12WefKSkpSdIff8eLi4tVX19v1xQWFio50Vk9evSwa77u30Fn0VZz3pKv/ o5LzPm1vK7U1tbqzTff1MyZM5v18VreRtr7LmJTffXO9ZqaGis1NdUaMGCAdezYMb/ H6xoaGizLsqyNGzda//Iv/2IdOHDAOnr0qPXSSy9ZERER1sKFC+19Xn70bv78+daRI OeslStXtvjoncvlsqoKCqzDhw9bs2fPtqKioiyv19um598eqjHnzz33nLVhwwbr6NG j1oEDB6zHH3/cCgkJ8Xuq43qd89bOt2VZ1g9+8AOrf//+1s6dO60DBw5Yf/VXf2Wlp KTYj+yeP3/eiouLs6ZNm2YdPHjQWrdunRUREdHsMeqwsDDr17/+tXXkyBHr6aef7vS P9F4WjDkvKCiw1q5dax05csQ6cuSI9Q//8A9WSEiItWrVKnsfzPnjlmVd/ZxblmW99 tprVnh4eItPMPJa3jYIMNfoq7/0lx/FbWk5ceKEZVmW9V//9V/W4MGDrRtuuMHq1q2bNWjQIOuVV17x+76Ry/saPHiw5XQ6rVtuucVavXp1s2O/+OKL1s0332w5nU5rxIgR1u7du4N8th1DMOb8H//xH60+ffpY4eHhVnR0tDVmzBhr+/btzY59Pc55a+fbsv74BvDwww9bUVFRVnR0tPXXf/3XVmVlpd9+P/roI2vkyJGWy+Wy/uIv/sJasmRJs2O/+eab1q233mo5nU6rf//+1ubNm4N5qh1GMOa8oKDA6tevnxUREWG53W5rxIgR1ltvvdXs2Mz51c+5ZVlWWlqaNWXK1Cvul9fy4HNYVgvPlAIAAHRg3AMDAACMQ4ABAADGICAAAADjEGAAAIBxCDAAAMA4BBgAAGAcAgwAADAOAQYAABiHAAMAAIxDgAEAAMYhwAAAAOMQYAAAgHH+H96O6vJF/a4LAAAAAEIFTkSuQmCC\n"

```
},
      "metadata": {}
  ]
},
  "cell type": "code",
  "source": [
    "plt.scatter(df['Date'],df['id']) \n",
    "plt.show()"
  "metadata": {
    "colab": {
      "base uri": "https://localhost:8080/",
      "height": 445
    "id": "qB9Z9ySRKTZX",
    "outputId": "d923f8e9-ca87-4079-a665-349403281aaf"
  "execution count": null,
  "outputs": [
    {
      "output type": "display data",
      "data": {
        "text/plain": [
          "<Figure size 640x480 with 1 Axes>"
        ],
        "image/png":
```

"iVBORw0KGqoAAAANSUhEUqAAAjkAAAGsCAYAAAA/qLYAAAAAOXRFWHRTb2Z0d2FyZ QBNYXRwbG90bGliIHZlcnNpb24zLjcuMSwgaHR0cHM6Ly9tYXRwbG90bGliLm9yZy/ bCqiHAAAACXBIWXMAAA9hAAAPYOGoP6dpAAB6xElEOVR4nO3deVxU9f4/8NfMwMwwL AOIMIOi4C4iKiZILpWikKR5te8tt9tidjOt1HvNvNetrLT6dcuuW1evWbm1l1t0UXN JUQrcEDQXUFMGVGCGfZk5vz9oRka2meFsM/N+Ph48SvjM0e85D0e8z+d8Pu+PhGEYB oQQQgghLkYqdACEEEIIIVygJIcQQgghLomSHEIIIYS4JEpyCCGEEOKSKMkhhBBCiEu iJIcQQgghLomSHEIIIYS4JEpyCCGEEOKSKMkhhBBCiEuiJIcQQgghLomSHAfs2bMHc XFx8PLyQkBAAMaPH99ie41E0uTXu+++a/N2T58+jUmTJiEsLAxeX17o3bs3Vq1a1Wh fW7duRb9+/aBSqaDVavHMM8/qzp07dr2/zMxMjBo1Cv7+/mjXrh2ee+451JWV2bUNQ qqhRGiU5DThwQcfxObNm5v82ddff41p06bh6aefxunTp3H06FFMnjy5xe315+dbfW3 atAkSiQQTJ060ebsZGRkIDq7Gli1bcO7cOfzzn//EwoULsXr1akubo0eP4i9/+QumT 5+Oc+f04csvv0R6ejpmzJhh83u/efMmEhIS0K1bN5w4cQIpKSk4d+4cnnrqKZu3QQq hhlgCQxp54IEHmI8//rjR92tra5kOHTowGzdubNP2H330UWbEiBFt3u4LL7zAPPTQQ 5Z/v/vuu0yXL12s2nz44YdMhw4drL63YcMGplevXoxCoWB69uzJrFmzxvKzjz76iAk ODmaMRqPle2fOnGEAMBcvXrQrPkIIIURI1JNjh8zMTNy4cQNSqRQDBqyAVqvFww8/j KysLJu3UVBQgD179mD690lt3q5er0dgYKDl3/Hx8bh+/Tr27t0LhmFQUFCAr776CmP GjLG02bp1K5YsWYI333wTOTk5eOutt7B48WJ88sknAIDq6mrI5XJIpXc/G15eXqCAn 3/+2eb3SQqhhAiNkhw7XLlyBQCwbNkyLFq0CLt370ZAQAAefPBBFBUV2bSNTz75BL6

+vpgwYUKbtnvs2DF8/vnneO655yzfGzJkCLZu3YrHH38ccrkcGo0GarUaa9assbRZu nOp3nvvPUvYMAERERGYMGEC5s6di48++gqAMGLECOh00rz77ruoga1BcXExXn31VOD 1j90IIYQQpyF0V5IYvPnmm4y3t7f1SyqVMqqFwup7V69eZbZu3coAYD766CPLa6uqq piqoCBm/fr1Nu2rZ8+ezOzZs62+Z+92z549ywQFBTHLly+3+v65c+cYrVbLvPPOO8z p06eZlJQUpm/fvswzzzzDMAzDlJWVMQAYLy8vq/emUCiY4OBqq3hCQkIYmUzGyOVy5 u9//zsTEhLCrFy50qb3SAqhhIiBh8A5liq8//zz+POf/2z595QpUzBx4kSr3pbQ0FB otVoAQGRkpOX7CoUCXbp0wbVr11rdz5EjR3DhwgV8/vnnVt+3Z7vZ2dkYOXIknnvuO SxatMjqZytWrMCQIUMwf/58AEB0dDS8vb0xbNgwvPHGG5ZHUBs2bEBcXJzVa2UymeX /J0+ejMmTJ6OqoADe3t6QSCT417/+hS5durT6HqkhhBCxoCQHQGBqoNXYFi8vLwQHB 6Nbt25W70Y0HAiFOoELFy5q6NChAIDa21rk5eWhc+f0re7nv//9LwY0HIh+/fo5tN1 z585hxIgRePLJJ/Hmm2822n5FRQU8PKx/pebkhWEYhISEIDQ0FFeuXMGUKVNajTckJ AQAsGnTJiiVSowaNarV1xBCCCFiQUmOHfz8/PD8889j6dKlCAsLQ+f0nS21bv7v//7 P0q5Xr15YsWIF/vSnP1m+ZzAY8OWXX+K9995zaLtZWVkYMWIEEhMTMW/ePOh00gD1S Uz79u0BAGPHjsWMGTOwbt06JCYmIj8/H3PmzEFsbCxCQ0MBAK+99hpeeuklqNVqJCU lobq6Gr/++iuKi4sxb948AMDq1atx//33w8fHB6mpqZq/fz5WrlwJf39/lo8oIYQQw iGhn5eJUXNTyBmGYWpqapi//e1vTHBwMOPr68skJCQwWV1ZVm0ANHr9Rx99xHh5eTE lJSUObXfp0qUMqEZfnTt3ttrOhx9+yERGRjJeXl6MVqtlpkyZwvz+++9WbbZu3cr07 9+fkcvlTEBAADN8+HDmm2++sfx82rRpTGBgICOXy5no6Gjm008/beWIEUIIIeIjYRi GETLJIoQQQqjhAk0hJ4QQQohLoiSHEEIIIS7JrQcem0wm3Lx5E76+vpBIJEKHQwghh BAbMAyD0tJShIaGWlXov5dbJzk3b95EWFiY0GEQQqqhxAHXr19Hx44dm/25Wyc5vr6 +AOoPkp+fn8DREEIIIcQWBoMBYWFhlut4c9w6yTE/ovLz86MkhxBCCHEyrQ01oYHHh BBCCHFJ10QQqqhxCVRkkMIIYQQ10RJDiGEEEJcEiU5hBBCCHFJ10QQQqqhxCVRkkM IIYQQl0RJDiGEEEJcklsXAxSC0cQqPbcIhaVVCPZVIjYiEDIpP+tmCblvQqqhhG+U5 PAoJSsfr+3KRr6+yvI9X6UMj8V0xOq+2kZJhzkp0ekrUVReq0AfBTR+LScnzSUyKVn 5WLYzGzrD3X1r/JRYNi4SSVFam7djzz6bYzQxOH75DtKu3AYqQXzXdhjcpV2Tr+ErM WsqpkHhqci4Wtzivu+Nb2DnAJtfY/69+qvkKKlo+ffb3HGoqTPhs7Q8XC2qQOdAFab Fh0Pu4R4dtLa8d0d+P47E8cmxXPySVwxvuQwTYjoirks7ZFwttulvV4w3H83F1FKs9 nwWm/u9sHGuEwNHjp8t2wDQ4uvFfEyEImEYhhE6CKEYDAao1Wro9XrOl3VIycrHzC2 ZaOlgN0w6mkqIzAK9PfHGo1EYEx3aaB/3JjJqL08M6x6E3Wfym93v+qkxlkSnps6Ef 3xzBnuzdKioMVraaNVKLB3b0CGyN31KycrHq9+cRU1FrdX31V4eeGZIBMKDvC1/nKn ZukbHQKtWYnFybwR4K+xKPlr6Y28uJglg9fu69xg09Tty5DX38vfyxNNDwjF7RHdLg trUcYjq4If90YUwNdihVALMGBaBhWMim91+c9q+QXK5vdTsAuw9m9/ie2/quEklsHr Nvcfa3vhX7M3Gfw7nNvq7vvdzYNbU58Gev5/mjgmbyUFzMT3aX4udp/MbfQ6Xjo3Ey WvF2HAk16bPY1Pbv/f30tqxaOp3q/FTYFJsJ6tzCACHkylHP7/N/b2O69f08WvqfNb Uuc9f5QkAVuephu8573YFtqdfszqutp4v7X2/YkimbL1+U5LDQ5JjNDEY+vaBFi9sD f11eESTJ86m2jU8oT+/Jd0h+AJUnvh10Si8k5LT7H7NH991DRKi1vbZMHmyN0Z/lWe jpKM5tiQSaqUHRkWGIL5rkFWvSXF5DV7YZltMDY8BgFaTVkdfY+av8sTj93W06bNwr 780j8ArSb1tvqA2d2JuKrFtqKWeQ0e215y9Z/Kx6PssFJXX2PTeB3QKsPtYr5zQt8X P0L3xr9ibjY8059r9XqBqbkJ31FTU40NjV5ttc+/fz71aSphbuilp6X3Zex5pLplri I3z1NrJAyw3dbbcMAJNJwXNJVO2nENs+fzuOnOTL24/aeO7aiZuLw+UVNa1aRstb79 xYm/P+22trSOJtyMoybEBX0102uU7mLThuM3tJRLA1t/K2skxSIzSYOAbqTYnBU15p K8Wu88239tjplUr8f0CETCaGPRZmoJaY/OBeitk0LM00dJN02TlfuqM1Q7H2Jy2JBK 2nKTvbR/ipwAgsbpjao3Ggde0hTnOpo73vXfHzV00mkpsG2rpjrW53g0AWDN5gE131 mb2JhP1711p97GWoP691hqZJi9UDY/HiF4h6LnoB7uTT3s0/Pu51y0XevP7ae33bLb 6if5YtPNcm84jTcYhAS4sfxqAELM8FWXV91/AJRJqzaT6c92QlQc4+ztaO3kApFKJ3 $\tt X8PRhOD17ZnYs9ZHSdxccGc2ANNnzMbvt9RkRqk5xYhNVuHTUfzGm3L3Pa54RGNeqv$ M2nKT0xRKcmzAV5Lz7ckbmPv5KU623c5bjq8e749pm9I52X5T5ib0wEeHLqGi1tRq2 3883AvTh3VBem6RXYmevRxNPtzZ0/d3Rqi/F1b/dBn6yuYvbObE9t5HGvYkkw3dezf tq5RhYKcADOveHpPjOuPU9RJLAnSntBqzd7TtztqeXp5SVLbwuZYA0KiVeGZIBN7cm 8N5PJ89E4thPdpbfa/+hsG2C735dweA0+SqNRFBKhToq2w6Z7RkcJdAHL9SxFJUjUk AqFvpRb737yE1Kx/zvjht9XjfmbTUa24+HkoPGSufnXsT77aqJMcGfCU5/z1yBcv3c HdCHN8/FN+dusnZ9ttKq1YiqU9Ii13zRNy2zxiM+K7tANj/+LUt701p48uo3sFIzSn kfD/tfTxx+JWR8JLLANQf+wVfncFXmb/bvI3Fyb1RWlWHD/Zf5CpMt2P+e2jLMAF3Z L5JuPemyRG2Xr9pdhUPAr3lnG4/O1/P6fbbK19fRQmOk/vxXL4lyUnPLeIlwQHEmeA

A402u/VZZLXovScGoyGBMjOmIV78+i5IWet2awuUNlrv6MSsfsRGBeG1XttChOBUG9 deD9Nwiy/mEa5Tk8ECj9uJ0+78V1HO6fWLNOwrUta3X3elsPnYVpVV1GNq9PS4Xlqk dTquaG2DKFh+FjLuNNyE1uxCp2dz3HBHbbE67Cn+VJ2/JvqspLOXvuFGSw4PYiEB4K 2Qor3bOZ7bEmlh7F7j2deYNfJ15Q+gwWjU2WoNdZ7gdAPojJRxub9X+S0KH4LSCfZW 87cs9qoYJ7MesfEpwXIBEAswZ2R1GN+vFcTZ8nkCJ+3LkZse9y/LV06rv1jDiAyU5H EvJyscL22yfHTJxQAdLfQciLgwD1HH5DISw4puT4u9tIu5HAmD2g12FDkNwS8dG8lo 4kJIcDhlNjN0D074+eQN6lutUEPYwbvuwynkUV9TCR+FBd81ENCSoryHze0ml0KHYx UfB7oiWtZPZmT5uD0pyOOToLBS6jIqXrqQS3nL6sxG7suo6MKDHA0QcGAD/OZyLK7f FP2i/oZjO/qxu76FewaxuzxZ0tuYQnyPICT++PnkT1XWUhjoDf5UnQvxofI4tVHJ+Z 4u5IwbA5VvOleQc/u02q9t7ay//U+4pyeEQDYBOTTQuxzmUVNTivf/rh8XJvYUORfS ctVqvsymrdu9ZC313KnjfJyU5HIqNCIRWTYkOIUIpLK1CL40f9VQQ0RjRq33rjVwUz wuV1++T/126D5lUgnH9+B1kRQi5a/meHEz57wnqqSCiMWNYV/x1eIRbjhc79NttpGS 1vhA0myjJ4ZDRxGDnaX5/oYSQu4rKa4QOgRALqQQY2DkAC8dE4sNJA4QORxALvzkLI 4+P/CnJ4RCfa/wQQqqRNxMDZFwthtHE4NWvzwqdjiCKK2px/Mod3vZHSQ6H8p2sJqJ pmTt2LxNC2FVYWoVj126j3I0foaZdpiTHJZy8Xix0CDbxFGI0mBPSqJWYPiRc6DAII U4s2FeJbzJ/521/3qIcdE+Pq1yCs0w0nhwbZ1f74d3bcRSJuDEMA181rWlL6k3oHyp 0CMTJmMfk8FkUUIyD7uO7BPG2L0pyONQ50FvoEFolAfBFhn13FQ/04L9qpRqUGKrxA a08TAC8NKIbhnR336nAxDEmBlh38DJO/27gbZ9iu9mWABhEC3S6h14hvkKH0CoGQGW t7QWqtGolpsWHQyFzv0dcYjtZEOFcLCxDSQXN3CL223DkstAhCIpB/eBrvlCSw6HbL ngSXDo2EgBQbaRLvg0GdvLHtMGdhA7DLbG9wKDZD1k6HL10i5NtE9dWVi2+x0d80xn 4m3VMSQ6HisqqhQ6BVaMjQ5AUpcVnaX12vS66ox83ATmJl0Z25331XQJo/BTwUXA36 PLABXbX9SEtc7++Y9fF57XRriRn3bp1iI6Ohp+fH/z8/BAfH48ffvjB8vOqqirMmjU L7dq1q4+PDyZOnIiCqqKrbVy7dq3JyclQqVQIDq7G/PnzUVdXZ9Xm4MGDiImJqUKhQ Ldu3bB58+ZGsaxZswbh4eFQKpWIi4tDeng6PW+FF4HecqFDYJX5JGPv+iPxXdxzoLL Zkx//gr99cQr+Kk+hQ3ErHQK8oD041o2G060+Y9fB57XRriSnY8eOWLlyJTIyMvDrr 79ixIqRePTRR3Hu3DkAwNy5c7Fr1y58+eWXOHToEG7evIkJEyZYXm80GpGcnIyamho cO3YMn3zyCTZv3owlS5ZY2uTm5iI5ORkPPfQQTp06hTlz5uDZZ5/Fjz/+aGnz+eefY 968eVi6dCkyMzPRr18/JCYmorCwsK3Hg1UatZfQIbDqx+yCP0py23e62XAkl5uAnEi BoRolFbVCh+FWMq6WCB0CIaQJfF4bJQzDtClBDgwMxLvvvovHHnsM7du3x7Zt2/DYY 48BAM6fP4/evXsjLS0NgwcPxg8//IBHHnkEN2/eREhICABg/fr1WLBgAW7dugW5XI4 FCxZgz549yMrKsuzjiSeeQElJCVJSUgAAcXFxGDRoEFavXg0AMJlMCAsLw4svvohXX 33V5tqNBqPUajX0ej38/Nh5pGI0MUjPLUJhaRWCvBWYtT3TpS5uASpPLHy4F175+qz QoTgluUyCGhrPRAhxcouTeyPQW47F359DWXVd6y/4g1atxM8LRkDWxvpst16/HR6TY zQasWPHDpSXlyM+Ph4ZGRmora1FQkKCpU2vXr3QqVMnpKWlAQDS0tLQt29fS4IDAIm JiTAYDJbeoLS0NKttmNuYt1FTU4OMjAyrNlKpFAkJCZY2zamurobBYLD6Y1NKVj6Gv n0AkzYcx8s7TmHKf09A70IJDlBfkvv09RKhwxBEgMoTseEBbdoGJTiEED6pOCgGGKD yxFNDIqBRe9mV4AD1k1famuDYw+4k5+zZs/Dx8YFCocDzzz+Pb7/9FpGRkdDpdJDL5 fD397dqHxISAp10BwDQ6XRWCY755+aftdTGYDCqsrISt2/fhtFobLKNeRvNWbFiBdR qteUrLMy+InqtScnKx8wtmY3WqnKGS5qXpwQSOz5z53X81XqQA5WnDI/FdMCJfyTAX +Va46wIIa5r9RP94adkfyyg+bpWWGrfLKkn4zvzPgnD7iSnZ8+eOHXqFE6cOIGZM2f iySefRHZ2NhexsW7hwoXQ6/WWr+vXr7OyXaOJwWu7sp0ioWlKZS0DL0/bs31DpWv1T rWmotaIrzJv4IF3f4Ivh7N1CCGuacawCN5nh81N6IEAHwUn07VLKmgx+WguLhaU2vW 6cjt7fdhgdxEJuVyObt26AQAGDhyIX375BatWrcLjjz+OmpoalJSUWPXmFBQUQKPRA AA0Gk2jWVDm2VcN29w7I6ugoAB+fn7w8vKCTCaDTCZrso15G81RKBRQKBT2vuVWucJ q4/aU/r54y77ZVa5Cp6/C1ydvCh0GIcSJzE3oqZcTumNq5wAs23mOtxl/+soazPj0V 862v3xPjt2v+SrzBhL+KEXClzbXyTGZTKiursbAgQPh6emJ/fv3W3524cIFXLt2DfH x8QCA+Ph4nD171moWVGpqKvz8/BAZGWlp03Ab5jbmbcjlcqwcONCqjclkwv79+y1t+ GZvlx1xTgzqp9FTcSnHuGGRbOLmJABmPtgVAJAUpcXhV0ZwVqDyXpuO5oly3aqF35y F0cTfcw+7jvbChQvx8MMPo1OnTigtLcW2bdtw8OBB/Pjjj1Cr1Zg+fTrmzZuHwMBA+ Pn54cUXX0R8fDwGDx4MABg9ejQiIyMxbdo0vPPOO9DpdFi0aBFmzZpl6WF5/vnnsXr larzyyit45plncODAAXzxxRfYs2ePJY558+bhySefxH333YfY2Fh88MEHKC8vx9NPP 83iobFdkA/7vUNEnBg4xzgrMfKSy6jaK3Er5iUM4rvW1wrLuFps90BdV1NcUYvjV+5 qSDd+Fum0K8kpLCzEX/7yF+Tn50OtViM6Oho//vqjRo0aBQB4//33IZVKMXHiRFRXV yMxMRFr1661vF4mk2H37t2YOXMm4uPj4e3tjSeffBKvv/66pU1ERAT27NmDuXPnYtW

qVejYsSM2btyIxMRES5vHH38ct27dwpIlS6DT6dC/f3+kpKQ0GozMG7rqEdIqSnCIO 2rY00+9/vXSLvOX5LS5To4zY6tOzvenbuDlHafYC4wOOohLmDa4ExY/0gdyDvnSLt/ BpA3HhQ5JcLMf6oq/J/Zq0zY4r5ND7qr2VQodAiGEEBH67Pq19Fr8A1bszcbAzqHqs USMaMV34acXB3BgdhVpLDYiEFq1Ejp9FT25aoK/lwdKKt37OTRxXDsf0e6U1QgdBiE OMzHAR4dzcbOkEjyOuRUlf5UnBnflbz1D6slhgUwqwdKx9bPDKElvjMZikLagBIe4i 11nWi5Y6w5WTugr7orHpGlJUVqsmxoDjZoeXd2rzt1vXQqhhGBuQq/eKx7T4yoWJUV pMaJXCD5Ly8PVogowDIPPj18T0ixC3M6AMH+cdNM11ggRq/AgFe/7pCSHRS1Z+XhtV 7ZV9WOpBKJ/BiuXAjUmoaMqhD1DurXDjGERmL39pOj//qhxF0JM0qHHVSxpboFOZzj BUoLjnlx5/FhcRDuMiQ5FVKjjpSHsQTNmCGmZVAIU1/M/vo6SHBY4+wKdxD0xAIZ35 28qJ5+2p19DZY0RZ24YON/XwM7+TnEzYw8Pyto40S+Mn6RbjEwMMGtbJ1Ky8nndLyU 5LHCFBTqJezp88bbQIXBib5YOo94/yOk+JABGRQYj42oJp/sRAk0WYN8j0VpEhaqFD kNQDIDXdmXzunYVJTks4GIpe0JI2/xezN3f5ZTYMJxdlogsHnqKiGsYFRkC135IbJt 8fRXSc4t42x8NPGZBUVm1Te181R4orXKdonhyDylq6txvQI+/lweUnh4oMFDxR3e1N f06fjinQ1F5rdChECcR7KuksVt/4LNjqHpyWBDoLbep3X2dAziOhF/umOAAQGWtCWP 7aSnBcXOU4BBbadVKxEYEon9Hf6FDEQVbOwbYQEkOCzRqL5vanf5dz2kcfUN9ON0+q VddZ8KGI71Ch0EIcRJLx0ZCJpUqNID/OjFiZGvHABsoyWGBee2qlqR6e6KI4+lz4/p 3tKu9v5cHJgxwrPok9boSQkjLpBJg7eQYS5VfWqCznq0dA2ygJIcF5rWrmvvsSgD8q X8HTmPQqpWYOjjc5uRjbLQGGYtHQ6N27M6CHtUQQkjLVk8agDHRd28kM64Wu1y5AXt 7ZcyP7vhCSQ5LzGtX3dujo1UrsW5qDBIiNZzuf1w/LU5dL7E5+dh1RofUbB3dVRBCC Eek95xqC0tdayauv5cn7u9i34ri4/ppaYFOZ5UUpcWh+Q9hcXJv/CW+MxYn98ah+Q8 hKUqL4nJuB1p9f+om8ksq7XrNq1+fQVwEf0veE0KIu5CqcU0YIZY14FJJZS12n7Wvu N/O0/m81smhKeQsamrtqo0/52Jxcm8s35PD6b51hmp8d+qGXa8pqazDidw7HEVECCH ui8HdmjDxXetvJs3jN925eOy9x4Rr1JPDkubWrtLpq/DCtpO8fKqdqV67+qfLHETi2 v46PELoEAghTqLhIyrz+E13x+dj00pyWNDS21WuNMYs1I/7rtaRvdpzvo+2eHpI0Ba OiaREhxBik7zbFVb/TorSYvUT/YUJRiT4fGxHSQ4L3GXtqmE9uF/M8dxNA1Y/MUC0U 9Q7+nvBaGKw8zS/i8wRQpzTB/t+a7QopYeHFCq5+11+JaDZVU7J1UbMN+fzX3/nfB8 6QzUO/nZLtD1qvxdXuE1SSwhhR8MByOahDRU17lUx3nzjai6MyBcaeMwCVxsxL7SvM rlPphz18bGrkErE2s9EiDVvuRTlbnYxFZuGA5BjIwKbHdrg6jRqJZaOjbQURuQL9eS wIDYiEP4qT062/eJDXeGrkHGybeKYb+2cxUaIUJ4d1kXoEMqfCkur3LIXePqQcGyfM Rg/LxjBe4IDUE+O6P2aV4zSaqPQYZAGisprEegt53yZDkLaqqyqTugQyB+CfBS8rr7 NJ/NNfknF3UVrtQL13NyLkhwWpOcWWf1y2ZSWW8TJdoH6DyZXcbu6R/uH4uOjeUKHQ ZpBn+1610soIqy/q2/zZXFybzw1pH62aXpuEQpLqxDsWz+4mM+xN82hJIcF91YaFpr KU40NTw7C4C7tMGHtzzj9u0HokJxOR38vPNA9CIccqE1EuEcJTr2i8lp4K2Qop95gw d0ur4a/ir/Vt/mqVSvx1JAISzLDV4E/e9CYHBZkXisWOqS7VNTWD0SUSSV4JDpU4Gi ck79Kjk7tHFvclBA+UYIjDsG+SpRUuNYjbr5nSjmCkhwWFDjhc9a0y/XLOTx5PxW1c ORJRQ1+LyoXOgxCiBPQ+CkQGxFo94rdYjY3oYfg421sQUkOC7wVzvjUj4HRxCDjajH a+7rOHx5fjly8jZ9+o3W/CCGtq6ozITVbB43aS+hQWOHv5YHZI7oJHYZNKMlhwcQBH YUOwW55tysw900DmLThOG6VulYXKh80/nZL6BAIIU5CX1GLmVsyUVxeDa3aBeqqOVG tMEpyWHB/9yDIPZzrUO4+m+929RoIIUQI5uJ/y/fkYHGy8y/QWVJRi3QOZ/6yybmuz CKmklPBPkIIIU0zVz6+WFgmdCiscJbljCjJYQFXdXJCfOVQetKviBBCXMXHR3OFDoE VzrKckTOOmBUdrjLasmojqmpp3RlCCHEVJZXOXcNJgvp1qO5dSdxoYqqYoKviKqMtr 6H6FoQQQsSDQeP6OC1Z+Vi2M9tq2Qq11yeeGRKO2SO6C5rs0LMQFqzsHAARJKxuLT1 KI3QIhBDidlKy8vH81sxG63LpK2vx/r6LGPhGKlKy8gWKjpIcVmRcLYaJab0d4U6+w bmW1iCEEGckAfDarmwYTfW111795myL7Uv+mD4vVKJDSQ4LnGWUuSsro9L1hBARkwA I9PYUOow2M88SS88twvErd2yadMMAWLbzHIwC9AZQksMCZx117so6B9I6UoQQ8WIAv PFolGsUAwSQmq2zLA9kC52hGqsPXOIwoqZRksMCGpMjvKQ+NCaHECJezwwJx5joUCw dGwlXuFxsOpqHS4Wldr3m/X2/8f7YipIcFtCYHOH97asz6BjqGndIhBDXMyqy/kYsK UqLdVNjnL5HRwLg50v2L29jHs/DF5pCzgIakyMOvxfz83vwlstoer+TCFTJUVRBa7M R4TRVVyYpSotRkRpLXZndp28iNadQuCAdwAAoq7a/jpt5PE9813bsB9UESnJYEOSjE DoEwidX6Gt2cRIAAd6eKCqnBIcI7966MgAgk0osF/pvMq4LEZZg+OwYoMdVbHCjR1X OthApF8qrjfBR0P2BWJkvJQPC/Dndj4ySXdKKAJUn1k2NQVKUttk2KVn5OHTR9qG8Y uPIguR8dgzQFYsFt8urhQ7BIQEqT/TW+Nr1mpo6WmYCAEyMG2W2TsZf5Ynnhkdg/3n 7xwvYQwwl64m4yWUSy1icexlNDI5evI0FX7dcZ0bMAr094dCpkMfTJyU5LHDWx1Vvj o/CfeEBQofhlCpoTI5oyWUSfH+K+xkcNUZKdEnLCkprmpw2nZKVj6FvH8CU/56A3on

XsnK0t5TPjgFKctjgpOe65XtysCCpt9BhNKujv/hmH0gA+Hs5f0EvV1ZQWtOoxDwhQ rl32nRKVj5mbslEvt75P6Mncosceh2fteUovWGBsz6uvtdX4ewNPaI6+AkdSpN+LxH XScD8cMIVqpYSQvhjrvZrNDF4bVe2s94XN1JWbbRrTI4EqLaJFcy5REkOC5y54vGN4 gr8c0yk0GE4BY1aiVV/7ocrtyt42Z9KLuNlP4QQbpmr/abnFrlED05Dto7JMedCTc0 04xIlOSyIjQiEVq1sdmaxOXtdOzkGCpFNydiWfg06fSUCveVChyJqi5N74+cFI/DLt WLe9mk00SBve0kABKho5hsRn/f3/YZ92TqhwxCMRq1sdaYZFyjJYYFMKsHSsfW9Ife mMOZ/L07ujYuFZZCKbEZG5rUSzP3iNNUTaUWQrwIyqQR5d/jpxQGA6jpX6dTmDwNgw oCOQodBSJO+PXVD6BAEMW1wJxya/xDvCQ5ASQ5rzKW6NfeU6tao1XhueAT+8W0W3t/ 3Gypr6e7cGZkfSYa3o4VAxc6PBoa7HLWXh0usD1hUXutyveYav+afYph9dvwaHnj3J 97XrQIoyWFVUpQWPy8Yqe0zBmPVE/2xfcZqLE60xEeHc1HC0TRBb7kMnz0TC42f844 LEjsJgOI/err+QeOXREOCYHv6Nfp7cDH6yjqXWR9wfP9QoUNg1aTYTgBaLwSv01dh5 pZMWqDT2Z1LdT/avwNiIwLxj++4LfRUXmPEbwWlWPIIXXy5wqB4YVv9H6fcQ0qrOoq Yg/pBnuYTLyFiMypSg5G92gsdBms6tVM1+RTjXswfX3wv0ElJDof+vf831FRwX+hp+ Z4cLN+Tjc6BXpzvy50t/OYsjl+54zLTP12ZvpLGmBHx0aqVKC6v4bwaN5+KyqotTzE WJ7ded828QCdfaBoCR1Ky8vHB/saVLrmi01eJ8uIb7CtHYalrXHCKK2px7PJtocMqN vju1E2hQyAskOrg9I+sFif3xvI92UKHwaqi8hoYTQxkUqkCbaz+z2exTurJYVlNnQk bDl/GvC9087pfsf7tj4oMEToEVt0orhQ6BNKKQFp9nBcePI8EdvYE59+TBiDAW+Fyd XLWHLyMoW8fwN4zN5F51bYemqIy/groUk8Oi1bszcaGI71O/8fIJrmHDP4qT14e2/F B66+Et1yGclq7SrQe7ReKj49dtes1CpkE1bQWlV3q6ERnsxnDwjG2Xyi+d9Ep5Pn6K ryw7aTN7f1V/M0wo54clqzYm42PDlOCc6+Pj+ZhkAstAhqokiO0lQF2RBqSAHNGdke ov/3T/CnBIVzprfHBP5P7AHDexZzZV1LBX08rJTksqKkzYcORXKHDEK39OYVY9Xh/o cNqRaBKjtzb5UKHQZrAAPhq/0WsPnBR6FAIseqY0CDpplwaAHitFURJDqs+S8ujHpw WmBjqVxuf1YrdsSt3QIWIxU1fVSd0CIRYVNXdfbTtrIs5s02j5m8mMCU5LLhaxF+pf 7Gwdw2uX/P4W/OJS19nuuYzdUIIN45cvGMpqOfMizmzhVYhd0KdA92n1L85tbF3DEO OrpT9YAghxAks23kORhOD2IhA+Kvcd9kRCWgVcqc0Oa6z0CG0iZ9C1mobL08pFj7cC yFULp8QQuyiM1Rj9QH+6qaJ1ZyEHrwv0klTyFlw6nqJ0CG0iaG69enQcV0C4SGV8Fr EiRBCXMX7+34DwLhMOQ1HhAfx/9TDrp6cFStWYNCqQfD19UVwcDDGjx+PCxcuWLV58 MEHIZFIrL6ef/55qzbXrl1DcnIyVCoVqoODMX/+fNTVWQ8WPHjwIGJiYqBQKNCtWzd s3ry5UTxr1qxBeHg41Eo14uLikJ6ebs/bYU1hqetf+A9euI3le3KEDoMQ4sRcbQVue 2066t6zcIUYk2RXknPo0CHMmjULx48fR2pqKmprazF69GiUl1tPqZ0xYwby8/MtX++ 88471Z0ajEcnJyaipqcGxY8fwySefYPPmzViyZImlTW5uLpKTk/HQQw/h1KlTmDNnD p599ln8+OOPljaff/455s2bh6VLlyIzMxP9+vVDYmIiCqsLHT0WDqPBZO5H7kFPeom 4afzEVZNF46fAG49GCR2GoPSV7jvzj+8Bx2YShmEcnhB769YtBAcH49ChQxg+fDiA+ p6c/v3744MPPmjyNT/88AMeeeQR3Lx5EyEh9SX/169fjwULFuDWrVuQy+VYsGAB9uz Zq6ysLMvrnnjiCZSUlCAlJQUAEBcXh0GDBmH16tUAAJPJhLCwMLz44ot49dVXbYrfY DBArVZDr9fDz8/P0cMAo4nB0LcPiHb9KMK+J+M74900q/T7JqLlIQXqTEJHcZe/yhM rJ/RFxtUibDiSJ3Q4hGejIoOx4S+DWNuerdfvNt2O6vV6AEBgoHV2tnXrVgQFBSEqK qoLFy5ERcXdKdZpaWno27evJcEBqMTERBqMBpw7d87SJiEhwWqbiYmJSEtLAwDU1NQ qIyPDqo1UKkVCQoKlTVOqq6thMBisvtqqk0qwdGwkqLuzj4hrC/RWQO3GsySI+Ikpw QEAfUUtnt+SSQmOm9qfU4gaAT6UDic5JpMJc+bMwZAhQxAVdbcLcvLkydiyZQt++uk nLFy4EJ999hmmTp1q+bl0p7NKcABY/q3T6VpsYzAYUF1Zidu3b8NoNDbZxryNpqxYs QJqtdryFRYW5tibb0JSlBbrpsZAc0/Jf61aiZG9qljbjzNx1YTPX+WJD/b95tYDCAm xF/V6AsE+7ntjZGLqC+fyzeHZVbNmzUJWVhZ+/vlnq+8/99xzlv/v27cvtFotRo4ci cuXL6Nr166OR8qChQsXYt68eZZ/GwwG1hOdUZEapOcWobC0CsG+9c8gZVIJnvk4HQc u3GJtX85Ao1ZicXJvzPnitCAZPJfohE0IsdfwHsH4qq0FRSVw7nOPEIVzHUpyZs+ej d27d+Pw4cPo2LFji23j4uIAAJcuXULXrl2h0WqazYIqKCqAAGq0Gst/zd9r2MbPzw9 eX16QyWSQyWRNtjFvoykKhQIKBbeD8WRSCeK7trP6ntHE4KSTTzN3hE5fhZPXi6GSy 1wiydGqlXhiUBje30drIxFC7He7rG3LOjhzggMIUzjXrsdVDMNg9uzZ+Pbbb3HgwAF ERES0+ppTp04BALTa+gJA8fHxOHv2rNUsqNTUVPj5+SEyMtLSZv/+/VbbSU1NRXx8P ABALpdj4MCBVm1MJhP2799vaSMm6blFKHbDRxsMgA1H81zmsU5FTR0Mla7xX1zVI9F aeMtbL25JiBB+zXONNfwcJUThXLuSnFmzZmHLli3Ytm0bfH19odPpoNPpUF1ZCQC4f Pkyli9fjoyMDOT15WHnzp34y1/+guHDhyM6OhoAMHr0aERGRmLatGk4ffo0fvzxRyx atAizZs2y9LI8//zzuHLlCl555RWcP38ea9euxRdffIG5c+daYpk3bx42bNiATz75B Dk50Zq5cybKy8vx9NNPs3VsWOMOdXTcqb6yDv89mid0GKQFe87kY/rQcKHDIKRJZTX

O36PdFkIUzrXrcdW6desA1E8Tb+jjjz/GU089Bblcjn379uGDDz5AeXk5wsLCMHHiR CxatMjSViaTYffu3Zq5cybi4+Ph7e2NJ598Eq+//rqlTUREBPbs2YO5c+di1apV6Ni xIzZu3IjExERLm8cffxy3bt3CkiVLoNPp0L9/f6SkpDQajCwGVEeHEH4wAD7/5brTj 10qRChSSf0qYS4IccPfpjo5zo6tOjmtMZoYDFm5HzpD257HEkIIIc5q+4zBjcasOsr W6zetXcUyo4mxml01sHMAMq4WI8hXQUkOIYQQtySVAMXlNbzv15IcFqVk5WPZzmyrR Sy57PojhBBCnIGJAWZty8Q6aQyvK5HTAjwsScnKx/NbMhut0k0JjmOkEtctJkqIIe7 qtV3ZMPJ4YaQkhwVGE4NXvzkrdBguxcSIb+AoJV2kIU86exI7PdJXfBNj+MQAyNdXI T2Xv6n09GfKquNX7rhMLRjSPIkEmDEsHAG0ZpXT4DIxrXXv2cDETjOGRWBkJH+PacS Mz11WlOSwIO3yHaFDIDwwMcDGI3kY0jWw9cZEFHpqfIQOqRD4KWV49eHeKGpjxWNXw WdZFUpyWCG2ByuESz+eK2i9ERGFmE4BiA0PEDoM4uYMVUak5xYh0FsudCg24aoHVIL 65XFiI/i7UaQkhwXxXdxz1XF3xIAeUziTH7J0SM8rFjoMQ1BYWgWN2kvoMGzCAOge7 M3qNs2J09KxkZBJ+RvhSEkOCwZ3bQd/GqdBiOi445pxRJzMddN4vL63ycXCcla3p1E rsW4qv9PHAaqTwwqZVIKVE/ri+S2ZQodCCCFERCSov8DHRqQiPbfI7cqKjOzVHs806 4rYiEBee3DMqCeHJU1RWqyfGq01kvJGQohzcpJOBqdjfkTjjos1/3ThFqZ2DhAkwQE oyWGVycSqtLpO6DCIjSSov8uwpz0hrszNOhl48eGkAZZHNO64WLOJAT5LyxNs/5Tks CQ1Kx8vbDvpd12RzspbIcO6qTF4dlhXm1+jUSsxfUq4d0ERQ1xOYYMq+LERqdCqHUt 0zDdZSX2cr6Dq1aIKwfZNSQ4LjCYGr+3KFjoMYofyaiNMJuCODd3HEqCfPROLnxeMw IjezneCIdwID3SOmTJiNbiLe9SbaniB10klWDo20qHtaNRKrJ8ag2nx4SxFxp/OgSr B9k0DSFiQnluEfL37PWt1di9sy4TSo/U8nwHgIZPWP1Omnjryh7yiSqFDcGrHr/BX2 19IbF3qH4nWIClKi6MXb70yPb5IJRA0MaOeHBbcuyqncR5VdbYVvUnN1qEAbpdTxVJ CiG0ksL7At6XXf+ORPFTWGHHssnMlOTOGRUBuw80kV6qnhwVUqtv1bTqah/s6BzjFw EEJqK7tvXHpFrt1Lqqh91HJZThwvsAy8Lqtvf4MqJj1/001k1Qj1UrqE5yFYxx7PMd aHILu3UU4S6lu0jazt5/EndJqBKjEfW8wJ6EHurSnNZsIEVp5jRHPb8nE3jM3AbR9Y UqxJzi+ShmmDe6Mxcm9cX75w4InOAD15LDCWUp1k7YxMcDsHScxomcQD1wQb5dxeJA KKrkU/8umNbaIa/BTymCoMgodhsNmbz+J1ZA4RU+wI8wzv959rJ+118poYpB2+Q4KS 6sQ7KukYoDOrC3TAonzEXOCA9TX4njy/ghR1fWZMCBU6BCIE3PmBAeov0F6YVsmisu rXfJace+SDS1Z+Rj69qFM2nAcL+84hUkbjmPo2weQkpXPe2yU5LDAPC1QTBcV4p4CV J6WO6aYzv5Ch2NRVu3cFylC2PCPb7Pw+H1hQofBOoZhYPqj5+b1Xefw/JbMRmOPdPo qzNySyXuiI2EYxm0nxRoMBqjVauj1evj5+bV5eylZ+XhtV7bVL9df5YkSkS8SqPbyg L6SKjW7Am+5D08+1g+v7z4HnUE8A+LH9w/Fd6duCh0GIaKgkktRUSPu8TVcMK/j9f0 CEW1+dGXr9ZvG5LAoKUqLUZEapOcWobC0CkHeCvzty9MAxJ3ktPOWU5LjIsprjHhhm /qWiu2t9cXB38Sf8BPCB3dMcID6GWL5+iqk5xYhvms7XvZJj6s4dF5ncIoaOlduC1d ym7iHmyWV4LPT2EdB92+EiBWfC5XSmYBFKVn5WLYz2ykSG0L49EnaNV73V0YL5RIiW nzOMqMkhyUpWfl4fgu7jwkkoFUECHGUylOKqjoTLZpLiEiYx+TERvC3bhk9rmKB0cT g1W/Osr5dtZcHvOUym9tLUD+gjRACVNRSgkOIWJiHGS8dG81rvRzqyWHB8St3OBlQW WsOodyOAWoM3HdAGyGEEPGS/LHMg7mWDl/otp8FaZfvcLJdexIcQroHewsdAiGENMn EAP85nMt7nRxKcljA0MgZIgIXC21BTkIIf6YPCcf2GYOxdnKMzZWcX9uVDSOPz5Epy WGBv5en0CEQQqqRsVkPdsXkONeqdvx15q2YGAaJURocmv8Qpq3u1GL7hnVy+EJjclq Q5KMQOqRCCCEiNrR7ewDAthPXBY6EPSWVtZiy8QT8VfU3+raOTeWzTq715LCAViEnx L0tfLgnhvBUwZU4H+0f06ZddTHnkopauybf8Fknh5IcFrjqB5cQ0roAlSeeHtIFLzz YjR5dkyYtTu4NmVRiWczZXUlwN+HjCyU5LJBJJRjXj99pcYQQcaiuM2LwW/sx5b8nU FJJa3ORxv7xXZZ1V1FS1BbTh3YWOCJhMOC/Tq41OSwwmhjsPM3vtDhCiDhU1JhQVFE jdBhExEoqajFzSyZSsvKRkpWPTT9ftXsbI3sFgcfcgBPPDAnnvU4ODTxmQXpuEfL1t F6Vu+gT6otzN0uFDoMQ4kQYAMt2ngMgcajoyP7zt1mOiH8je4fwvk/qyWEBLcjpP14 e2Z0SWkIEpPBw3suWzlDt1teLX3icOm7mvJ8WESkqqxY6BMIDyR9fReU07oIQoVTXU SV4Z/XB/otU8dqZBXrLhQ7BIeaLdlQHP6FDcQoM6v9IHeHlKYWTP04nhJA2o4rHTsh Z6+Ro1EqsmxqDUQI8J3U3UokECZHBQodBCCGs8lHI7GrPd8VjSnJY4Gx1cjwkwNZn4 /DzghEYFanBthP2j/Qn9imvMSI1u1DoMNxCgIrmUxDClxnDutr9Gqp47GScrcBTHQP M+/wkgPqZYQWlNP2VuIZpgzthcXIfocMgxOmpPKWQtPCM3VzYb/aIblg7eYBd09up4 jHhXEFpDXos2ot92TqhQyGENZ8dv4Y39mYLHQYhjUgA+Cnte7QjpIpaE5gWhs40LOw 3JjoUqyfFtLpNqnjspIwmBq/t4ubEOuuhrnjvsWj4KtnvqjeaqP8ezWN9u4QIiWa/E TFiAIyO1AgdBmfGRGuxfmqMZbHOe5k7eqjisRPishhggb4KS3adQ21VHSfbJ4QQwg8 ublaF1HCmlNHEQO01x9JHIvFYTAeo71nHzTzRhSoeOyEuB1F91XmDs20TQqjhz/enb wodAqvMM6X01TV4bVe21c2+xk+BZ4Z0R3iQN4J96x9R8dmDY0Y9OSwIVDlnnRxC+LR

28gCMomn0xI0Vldc6bV215qRm6zBzS2ajpxkFhmp8sO8iFB5SxHdtJ0iCA1CSw4rsf IPOIRAiapFaP4yJDsXEmI5Ch0KIoMb3DxU6BFZ9d+pmk2txMX98zfv8NDYcvoIaqSp VU5LDq1+v8r8eByHOJDvfqL1nbuJvX5wWOhRCBDUqUoMHerQTOqzWFJW3XIKkotaIN /fmoNfiH7BCqJmPlOSwoKLayPo2Y8MDWN8mIUKa/9VplNew/7dCXJsrLYeiVStRXF6 DQ7/dEToU3pkY4KPDubwnOpTksIAxsd8N185bDo2fgvXtEiKU8hpaWJHYj79Vjrj3S LQGy/eIt46Tv1fT07/Zt0FILq+PrijJYYG3kv0Pxq/nCtC3o5r17RJCiLORuUh3zte ZNzgrN8KGp+4P53wfJgb4LC2P8/2YUZLDgvvCuaneuI/W0iKEEBhdpDtHqEKVsZ39b WrnrfDASyO6cRsMqKtFFZzvw4zq5LAqUuPHyXZd5O+aEF75KGQo42CcHCHOKv1qiU3 t3tybw8sjq7AAFef7MKOeHBYUVdIC14SIxaDONGifiJePQtx9CyWV3Pc29Qrx5XwfZ pTksIDPFVXFoHt7b6FDIKRZP/12W+gQCGlEgvoqwB4CFcUTEz47BijJYUFsRGCzi5K 5ogQXXmSOEELYZk5rJsV24qWnROz47BgQd78ZEaWDFwqEDoEQQpyGv8oTKyb0RWWte 5dRkKB+oc7YCG4m6zSFenJYkJ5bhJIK98nOc3RlQodACCFOQ+EhxahIDYrKqoUORXB Lx0byuo4VJTks4HIVckIIIc5NZ6hGem6Ryy3Oaa/kaC2SorS87pOSHBYE+VBlYkIII c0rLK2CRu0ldBiC2n0mHylZ+bzuk5IcNlBBG0KIDWhejfsK9lWif5i/0GEI7rVd2TC a+LtoUpLDqkJ6zkoIsQEDuP0jC3ek8VMqNiIQ205cFTqUNpGq7Y16vr4K6blFbIRjE OpyWECDyQghttL4UZLjbgrqTEjN1iHvDn/LGXCB+eOrrYkOn+NYKclhAd2ZEUJs1Z1 PsxPdjb6iFj03ZOLqnXKhQ2mzh6M0CPFrW50bPuvkUJLDAncfTEYIIaR55hEomVfvC BoHG3T6SjCMY2NqJAC0Yq6Ts2LFCqwaNAi+vr4IDq7G+PHjceHCBas2VVVVmDVrFtq lawcfHx9MnDgRBQXWxeOuXbuG5ORkqFQqBAcHY/78+airq7Nqc/DgQcTExEChUKBbt 27YvHlzo3jWrFmD8PBwKJVKxMXFIT093Z63w5gBnQNAlboJIYQ0hwFQVuP8s1ROXte joNSxIRoMRF4n59ChQ5g1axaOHz+O1NRU1NbWYvTo0Sqvv9sFN3fuXOzatQtffvklD h06hJs3b2LChAmWnxuNRiQnJ6OmpqbHjh3DJ598qs2bN2PJkiWWNrm5uUhOTsZDDz2 EU6dOYc6cOXj22Wfx448/Wtp8/vnnmDdvHpYuXYrMzEz069cPiYmJKCwsbMvxcEjG1 WLwOFicCEwuo4zWGfB5IiWEtO6ZIeG818mRMI72OwG4desWgoODcejQIQwfPhx6vR7 t27fHtm3b8NhjjwEAzp8/j969eyMtLQ2DBw/GDz/8gEceeQQ3b95ESEgIAGD9+vVYs GABbt26BblcjqULFmDPnj3Iysqy7OuJJ55ASUkJUlJSAABxcXEYNGqQVq9eDQAwmUw ICwvDiy++iFdffdWm+A0GA9RqNfR6Pfz8/Bw9DPj+1A28vOOUw68nhBBCXN32GYMR3 7UdK9uy9frdpjE5er0eABAYWP98LSMjA7W1tUhISLC06dWrFzp16oS0tDQAQFpaGvr 27WtJcAAgMTERBoMB586ds7RpuA1zG/M2ampqkJGRYdVGKpUiISHB0qYp1dXVMBgMV 19scLdVyIn7od4rQtouxFcu+qENI3u152S7fI/FMXM4yTGZTJgzZw6GDBmCqKgoAIB Op4NcLoe/v79V25CQEOh0OkubhgmO+efmn7XUxmAwoLKyErdv34bRaGyyjXkbTVmxY qXUarX1KywszP433oTYiEBo1ewlOlIJMLCzP2vbI6Staoz0PJaQtnrt0SiM7B0sdBq t6ttBzc12Fyf3FuQRssNJzqxZs5CVlYUdO3awGQ+nFi5cCL1eb/m6fv06K9uVSSUY1 4+954wmBsi4WsLa9qqhhAhrxrAIjIrUIOsGO08QuLJq/yX4qzxZ3+7yPTm8L+kAAB6 OvGj27NnYvXs3Dh8+jI4dO1q+r9FoUFNTg5KSEqvenIKCAmg0Gkube2dBmWdfNWxz7 4ysgoIC+Pn5wcvLCzKZDDKZrMk25m00RaFQQKFgf50po4nBztP8//IIIYQ4h41HcuG j8EC+XtwLOjMASipqWd+uT1+FmVsysW5qDK+Dj+3qyWEYBrNnz8a3336LAwcOICIiw urnAwcOhKenJ/bv32/53oULF3Dt2jXEx8cDAOLj43H27FmrWVCpqanw8/NDZGSkpU3 DbZjbmLchl8sxcOBAqzYmkwn79++3tOFTem6R6D+4hB2dAmqxVkLMAlSeWP1Ef0Rqf IUORfQYAB8fzRM6DJuxPQ7P/MBb1GtXzZo1C1u2bMG2bdvg6+sLnU4HnU6HyspKAIB arcb06dMxb948/PTTT8jIyMDTTz+N+Ph4DB48GAAwevRoREZGYtq0aTh9+jR+/PFHL Fq0CLNmzbL0sjz//P04cuUKXnnlFZw/fx5r167FF198gblz51pimTdvHjZs2IBPPvk EOTk5mDlzJsrLy/H000+zdWxsxmeJarEY0TNI6BAEUVZjEjoEQkRD4SGFVCpFtq5U6 FCcQkkl+z0kX0FiHB4D/teusutx1bp16wAADz74oNX3P/74Yzz11FMAgPfffx9SqRQ TJ05EdXU1EhMTsXbtWktbmUyG3bt3Y+bMmYiPj4e3tzeefPJJvP7665Y2ERER2LNnD +bOnYtVq1ahY8eO2LhxIxITEy1tHn/8cdy6dQtLliyBTqdD//79kZKS0mqwMh/ccXb VqQu3hQ5BEDTJiJC7dIZqvPL1GaHDcCoquQwVNUahwxAUnx0DbaqT4+zYqpNjNDGIX vYjyt38g0sIIaRlcg8paurcu0eYjXo5tl6/HRp4TKwZTQwl0IQQQlrlzgmOBIBGzGt XkaZ9cixP6BAIIYQQ0RP121Wkab/k8TeIihDSungBKqsSQ1o2J6EH72tXUZLDApVcJ nQIhJAGPpkeh/5hjo+zI4SwLzxIxfs+KclhQW8t1YggRCy85TK897/zOHVd3JVlCXE 3QsxEpiSHBe44hZwQsSqvMeKjw7lCh0EIaUDjp3CuBTrJXRq119AhEEKIU/GWy2h1e zdSVWdCanbzC2hzhZIcFrC9CjkhhAiBz6SjvMZIq9u7EX1FLWZuyeR9kU5Kclggk0q wdGwk6J6EEOLMainpsJvSxmpzLz7YFSG+cm6DETGnWLuKNC8pSot1U2OoR4cQ4rQox bFfVZ1t7bqE+OLYwgR0ac//DC0xEP3aVaRlSVFajIrUID23CIWlVbigK8Xag5eFDou

QFnnLpSinhUcJsZvCQ4pqGysYF5VVw2hikHe7guOoxI/PtauoJ4dlMqkE8V3b4dH+H TCse3uhwyGkVeU1Jvqo6H6HEHvZmuAAOKC3HJ+15YHHJzWcGtiJH/d1DnDotXzOSKY kh00u0iB5bkIPaPwUQodBWBQb4djJihBiG43aC1eLXKcXJ+NaCX69Wmz366QSYKCDy ZEjKMnhkEwqwbh+/Jaw5ppWrcTsEd3w9sRooUNxCipPGboGeQsdRqtOXdcLHQIhLks qAYrLa9A50H3H45iZGCDDgeTIUZTkcMhoYrDzNL/T5bi2dGwkUrN1eGFbptChOIWKW iMu3y4XOowWBXp7oqi8RugwCHFZJgaYtS0TIb4K8Lg2pWjRmBwXkZ5bhHw9f79MPny VcR0zt2SivNoodCiEJQPC/IUOgRC38OYP5zF9aITQYQiOxuS4CJ3BtRIcANiXc8vtp 5m60o3Yyy07I/NaidBhEOLyzNOnR/QKwdhojdDhCEKC+iEPfC7vQEkOh4rKqoUOqXD AVZI881oyxRW1QodCiNsoLK3Ce38e4LaPrZaOjYSMxzdPSQ6HAr3dt7o1Eb914/rqN iXixAXJRHxlC/ZVIuNqsctMJbfHyyO7IymK38k4Iv4oOL9qP9ebPk5cR8bVIl6fjRP iqEBvT5vbatVKPDNEnONezI9q9gmwUKUY1AmQ2VGSwyU3zNSJ89hwJA+FhiqoPN203 5w4jX4d1Ta3XZzcG7vPiHNWq3126n+P5qkdikAoyXEpt8vpUQARt5c/P4WKWnFm434 KmdAhEJH46cJtm9rNTeiBAG+FKGe1zk3ogVGRGry2K1voUAQTF9GO931SksMhehTAL y8P6pFwJV3bi7+IIuGP16e0xZmNEqDdq314rcFiK42fArNHdHPJsiL2kEr4P0dTksO hqZ0D3HYEvRAq67jvkYi2o9uctE1S31ChQyAiUllravFhB4P6qnt5AhbfvPd0L/nja 9m4PpBJJaJMwPqkxNMNSnI45K4j6F1ZX62f0CG4BX+VJ54eEgG1Fy0cSuyzPf0a/FW 2D1Rmi9xDins7KiQS4LnhEZYZRe7euy/E+6ckh0PunrW7Ih8VXXT5sHJCX8g9pLRGG rELAOBnqEadkf+7y5o6U6ObWhMD/OdwLlKy6gdCu+qizbbguwigGSU5LKupM+G/R65 gyfdZOHHljtDhEJYV6GkwOZckAP7a4M53VKRGkLty4tzKquuEDsHKa7uyYTQxkEklW Do2UuhwBDGun5bXIoBmlOSwaMXebPRa/AOW78nBp21XsS39Ou8x+HvRjBRO0eNHTjG wvvNNzy1CCVVkJk7MvJxDem4RACApSouHo1xjWYen7+8MH4Vtvds7T+fDSHVynNeKv dn46HCu4GNw7qvnvzvQneTdEfeK4q7Cf0ebX1IpdCiEsKLh8IV8fYWAkbRdqMoT66f GYHQfrc29Zq0TPT7RAAMW1NSZs0FIrtBhAAAOnL/10OuUH1JU1Z1Yjsb1nPpdL3QIL q/hne93p24IHY7bkEog+E2aKzMPul2xNxunrhsEjsZx/Tqq8c0LQyCTSvC9nX+fQox TpZ4cFnyWlieak4OjcVCCQ8RGp6/EL2248/PypNObPXprfTnfh6eb1tSQSupLiojph thR4/qFWsbWBPko7Hotza5yUnl3nLvrkZC2eCymAyfbLSqvQWUbku/3/q8f/L1o0LK tzt0s5XwftWK5G+SZiakvKSKmG2JHSABMiw+/+w073ovGT0Gzq5yXE39qCWkDqQR4a 0I01k4ewGrhS2+5DEUVNQ69VgJg7eQYBHgrUFJJg5aJOPzn0GVeb4gVHuxf31VyGQ6 cL7D8u7DM9tmmVXUmpAqwMCklOSzo39Ff6BAIEYT5DnVMdChWT4phbbv1NUas+emyQ 6/18pRCKoXbrvRMxOmn324h4yp/ZUWqORiCUFFjxMwtmZbZj7dLbU9y9BW1Vq/1CyU 5LAgNUAkdAiGCOXrpFr4/dQMB3nLMGdld6HBQUWvC81sy3XilZyJW2f1lQofQJuZnF ubZj8V29Lbe+1q+0OwqFpirWDrrwmtKDwmqeFj3ibim1Q16XDR+CvirPKm2DSEuyjz 7cfPRXFwqtC9pazhzMr4rPyuSU08OC8xVLJ133oDzRk7EpcBQbUlwmlqsEAA8ZfR5I +5LzsFYGSEs350D/2UXtN6wCXxOJXeNoy0CSVFarJsa41Trkmj8FJgzshtNHyesMfc H+qs8EeJn/begUSuxfmoM4gSYYUGIWJhMdL7lcyo5Pa5iUVKUFqMiNUjPLUJhaRVul 1Zj+Z4cocNq0rTBnbD4kT74cP9FoUMhLqikohZbp8dAKpWgsLQKwb71i/O9k5KDny/ Rmm7EffF9Tym2Io/mmkG87Y+3PbkJmVSC+K7t8Gj/Dgjyta9QEp8+O34ND7z7E67c4 r42BnEd/l6eeOGBrja1LSyrtvwtxHdthx+z8vHRYecuhEaIMOnuGyKqBAe4OyOTL9S TwyEhqjvaQ6evwl4nHSxNhFFSWYvSatsGFRc1qKFhNDGY//UZrsIihDTh6CX+14qyh c7A33WHkhyWGU2M5XFVoJdcdF2FDYk0LCJytn5uAr311v8/fuUOyquN3ARECGmSWIt h2lNfp60oyWFRSlY+XtuV7bRTyQmxha1zo4J9lUi7fAeFpVU4eL6Q05iIc6EyA+7Nn vo6bUVJDktSsvIxc0sm9Y4Ql/fZ8Ws2tXv6k19QQzP3SBPcOcEZ0as9Dpy/JXQYquJ znVYaeMwCo4nBa7uyKcEhpAFKcFwfLfRuvxnDumJstEboMBw2olf7NpdKie8SxFI0r aOeHBak5xbRIypCiNuppTzWZhLU14qKjQhEcXk19pzViXa8Zkv6dQzAhr8Msow9DfZ Vori8Bq/vPqedofWxNv4qTwzmqdoxQEkOK/is3kqIIcT5MACWjo1EarYOs7addNqe/ w/2/YaeGh8kRWmtvp8YVV8jLjVbh00trBu3ckJfyHh8XkVJDgvEP1Xc2Sk9paiiW0Z CiBN7Zkq4RkVqMPTtA06b4Jqt23kOvkpP3C6rthT6NNeI01fWtJjk8I2SHBY4+wKdY rfmzwOwI/M6UnNohg5pnQT1d83m/xIiBuZq+GK+TthyQ8kA0BmqMWXjCcv3tGollo6 NxKhIDZbtzG7x9a/tysaoSA1vvTk0bIwFMqkE4/ppW29I7OYhlWDGtgxKcIjNNGol/ jo8wuYEZ1i3dggRcXVy4vw0fgrERgSKfmiDoz3mOn0VZm7JxJwdma0W+jOvQs4XSnJ YYDQx2Hk6X+qweNM31I+3fdWZGKccnEeEsTi5Nw7Nf8iuv8cj1+4qNoK/tXSI+6mqM yE1W4cgH9dMppk/vnad0dnUns+Kx5TksEDsXZBsO3vTwMt+eCylQFyAVq3EU0MikHG 1206/xyMXadFQwh19RS1mbslEeq44P2cSAIHenrztj8+Kx5TksEDsXZDOijpwiK0kq J+5IpNKHLpLFGv5e+IazOeyT45dFTSO5jAAliVH8lakj8+Kx5TksMAVuiCp14Q4Kx+

FDOumxlimtDZcGJQQsWAgjmS6uXP90t3ZvA0NkFDFY+dicoFBI92DfYQOgRCHmEwML uhKYfzj77DhwqCE8EHMN4necpnVv5u7WhXzuNSGvxd/j8YoyWHBCR5HinNBAsBOVSd OGIQ1XYJUQofAq4paE97fdxED30hFS1Y+NGovoUMibkbMt7nlNUahQ2iEz6cflOSwQ swf8dbFdPbndbQ74daV2xVChyCIkj8GdxaXV7d5bR1CuMDn4F4utXXsDp83IpTksGB Q50ChQ2iTnPxSoUMghBUMgNd3Z2NxcqTQoRDSyBuPRrlEAm5i6ss1TB3cye7Xav9Yv 4svlOSw4HyBcycJFSLsziTEUTpDNS4WlmFgZ3+hQyEEQH3Px9rJMRgTHeoyhWODfBV I7htq9+vMsyD5Qss6sODXq849JocQV/P+vt+EDoEQi+lDwzEmWgujicHnv/70+f74W NLEvGaVPUsavfRQt0YLe3KNenJYUFFNPSGEEEKatvuMDkYTq+NX7qCEh11MXCc45kd OMqkES8fa/mi4awj/s3qpyWFB3478LXNACHEfGj/nH79B7q7X1HZZnBWP7bU4ubflk VNS1BZzRnaz6XVC1JSjJIcFQ7q2FzoEQqiPqn34qcVzXzh3a2qJubaLK0rN1sHZZ+K aLd+Tg5Ssu+vDDQpvZ9sLBXj7lOSwQMpn+UZCiOAKy/gpS7/7DHcL/5qvN3IZnb/4s OloHm/LJnDNvOq4OdG5XW5blXFb27GJkhwWCPGLY5unq/z1EULsUmN0jd4FZ/DZcfv XrgrwEt/8IPMn5rVd2TCaGAT72vZY1dZ2bKIkhwWusHZVQmSw0CEQQohLK66wv7J8g Lc4ry8M7o41Ki6vbrGXSqL+6+OYUZLDBhe4EeoZQoOnCSHuTSHCR3dXbpcLHUKLUrN 1eGHbyRYX92RqPViZT3YnOYcPH8bYsWMRGhoKiUSC7777zurnTz31FCQSidVXUlKSV ZuioiJMmTIFfn5+8Pf3x/Tp01FWVmbV5syZMxg2bBiUSiXCwsLwzjvvNIrlyy+/RK9 evaBUKtG3b1/s3bvX3rfDCrYfV/H9MVB5SrHj1+s875UQQsSjb6qfNj45SOqwnM4XN tb9uXewMl/sTnLKy8vRr18/rFmzptk2SUlJyM/Pt3xt377d6udTpkzBuXPnkJqait2 7d+Pw4cN47rnnLD83GAwYPXo0OnfujIyMDLz77rtYtmwZ/vOf/1jaHDt2DJMmTcL06 dNx8uRJjB8/HuPHj0dWVpa9b6nN2H7OyHfHUK2RobWriEP81LLWGxGXMyYqROgQWDe kexDu7xYEf5VrrC/FNQmAAJUnyqptewR372Blvtid5Dz88MN444038Kc//anZNqqFA hqNxvIVEHB3GmROTq5SU1KwceNGxMXFYejQofj3v/+NHTt24ObNmwCArVu3oqamBps 2bUKfPn3wxBNP4KWXXsK//vUvy3ZWrVqFpKQkzJ8/H71798by5csRExOD1atX2/uW2 sxc9VF8HZ22qW2pn5GQZkgAqOQe+OyZWIwW2ZguL096Es8VCYBj112vyrtMKoFMKsH KCX2FDsUpMAAGd7Fx6jgaD1bmCydngoMHDyI4OBg9e/bEzJkzcefO3QJIaWlp8Pf3x 3333Wf5XkJCAqRSKU6cOGFpM3z4cMjld2tRJCYm4sKFCyguLra0SUhIsNpvYmIi0tL Smo2ruroaBoPB6osN5qqPlCoQd8Kgfp2olz8/hf9lFwodjpXKWpPQIbgsBkBJJfdVe /nm71Xfq2NPcTt39syQcHRt723XaxoOVuYL6010U1ISPv30U+zfvx9vv/02Dh06hIc ffhhGY/3SBzqdDsHB1nd9Hh4eCAwMhE6ns7QJCbHuDjX/u7U25p83ZcWKFVCr1Zavs LCwtr1ZEfJw1u4k4rSKyvmpGWMPCaj+C7FPw1myNhe3c2OjIjWI7xLk0GsLS/kbHsH 6BPwnnnjC8v99+/ZFdHQ0unbtioMHD2LkyJFs784uCxcuxLx58yz/NhgMrCQ6RhOD1 3Zlt3k7bKij7iRCwIDqvxD7XCuqBFB/Pk+7ws3yCyq5FBU1zt/L2HA6uEouQ0WNfes 381kvh/MqQ126dEFQUBAuXbqEkSNHQqPRoLDQumu7rq4ORUVF0Gq0AACNRoOCggKrN uZ/t9bG/POmKBQKKBTs1xxIzy2yeRVWQggh4vPBvt9QUVOLnafzOTufP9ijPfZmFbT eUOSWjo2ETCqB0cRA7iG1K8nhu14O56Pzfv/9d9y5cwdabf3y6vHx8SqpKUFGRoalz YEDB2AymRAXF2dpc/jwYdTW3n3um5qaip49e1oGMcfHx2P//v1W+0pNTUV8fDzXb6k RNrveemt8WdsWIYS4Mx+FzOYJIQyAjw7ncpbgPDMkHFPiwjnZNl+kEmDt5BgkRdVfz 9Nzi+xeVX1cPy2v9XLsTnLKyspw6tQpnDp1CqCQm5uLU6dO4dq1ayqrK8P8+fNx/Ph x50XlYf/+/Xj00UfRrVs3JCYmAqB69+6NpKQkzJqxA+np6Th69Chmz56NJ554AqGho QCAyZMnQy6XY/r06Th37hw+//xzrFq1yupR08svv4yUlBS899570H/+PJYtW4Zff/0 Vs2fPZuGw2IfNrjcuF+QjxJlFd6CClcQ+51XcxTA6a1SkBoO7tnPqKeqrJw3AmGit5 d+030B/8evv4p5d9euvv2LAgAEYMGAAAGDevHkYMGAAlixZAplMhjNnzmDcuHHo0aM Hpk+fjoEDB+LIkSNWj4m2bt2KXr16YeTIkRqzZqyGDh1qVQNHrVbjf//7H3JzczFw4 ED87W9/w5IlS6xq6dx///3Ytm0b/vOf/6Bfv3746quv8N133yEqKqotx8MhsRGBrH1 w/z6618ss4kYIm84X1LXeiJAGLt0qx+CIQHjJha3nJJUAxeU1TjtFXa30wGMxHVBtZ JB2+Y41SXHkBr+4ohbHORrz1BQJwzBuOzrPYDBArVZDr9fDz8/xu0SjicHAN1Lt7rZ ryrTBnfDZ8Wtt3q4hhBDxkABYN7X+Uc/eMzcxe3vLSyEILT4iEKdv6Jscb6NVK7F0b CRGRWow900Ddj/im/1QN/w9sWeb4rP1+k0Vs1jgyHPJ51CCI27jopsf2E4IIc1hcLc QXoC3QrQJjr/KEyq5DGm5Rc0OKM7/o3pxarYO4/ppm2zTMhE/riKN8Tnnny1TY12vR hAf/u++TvCgvxpCHKIS+LGR0MyF8MR4zfDylGLOyO4oqai1ebbUsp3n8P0p+5dpcLS +jiPodM0CPuf8s6VT05VTL0UhlIyrxZj1EFVDJcQR9tZTcUU6QxVyb4lvfFllrQmfH r9qc3tzxXN71z30V3licFf+ii1SksMCZ1y76vfiKiwdGyl0GE7ng/0X0b29j9BhEEK c1M8Xb+GD/ZeEDqNJfFQvXzmhr7inkJPGzGtXAeKYqmqbBklRWqyZPEDoQJzOkl3nh A6BEOKkUs41v/SQK9P4KbB+6t0aO3yhJIclSVFarJsaA43aOR5dRXf0BwAEeLNfAdr

VFZW73uKEhBB+1FeL85FdoDd39Xv+OaY3jr46kvcEB+BhWQd3khSlxahIjWVgWaGhC m/uPS90WE0683sJJsR0F0UA0EIIIfxalhyJ0V+e5mTWV7CfqtdHVA1RksMymVSC+D8 GVR1NDNYcvMza9HI2fXb8GvblFOL/YjoIHQohrFJ5S1BRK9L5ucStKT2kqKoT5wKdC 7/P4mxae97tCm42bAN6XMUhmVSCx+/rKHQYzdLpq/DhT5eFDsPpcNmtS9ruqZ4hQod ASJMUnlLLUhNiY+9jNAnqx9nYUu3/g32/ISXL/qnmbKAkh0NGE4PPf/1d6DCaRfe6j nnj0SinXn/G1blxEXcicvrKOkyK7SR0GG1mfvC05BHbZ+iaCyHyjR5XsaymzoTP0vJ wtagCJpNJlI+qiOMS+4RAKpXQ71WkJAB+vnRL6DAIaVZ4kApP398ZHx+zvSaN2Gj+W NZB7SW36VzI4G4hxHqea+QAlOSwasXebGw4kivact2k7bq298Zru7KFDoM0qwFQVi3 OMQ+EAECQjwKj+2idMsnxlAKbn4nD4C7tIJNK8P2pG3a9PjVbx3uSQ4+rWLJibzY+O kwJjqsLUCnsXoyOEELMTCYGsRGBTvnIu9YEbD9xzTJTyt5q/5uO5vE+NoeSHBbU1Jm w4Uiu0GEQjvmrPBHkS3WFCCGOO5FbBKD+uuGMdp/Nx4q99b3Z5mr/tpKA/7E510Sw4 LOOPOrBcQMrJ/QV7cwIQoizYHD8yh2nXsdrw5Fc1NSZLNX+ba2A03BsD18oyWHB1SL hagC0hUQCDO/032qwzsrfy8NSjjw2IhAaP+rNIYQ4Jr5LELbYsRCmGJmY+pt74G61f 3t6dPqsQktJDqs6B6qEDsEhvqoZOjlp7Hxa9fqASzlymVSCJwaFCRyRc/PycJ4V3tr KW06nWKH4qzzx1+ERQodhxV/lCX11LX7Icv71qxre3CdFafGPMb1tfq29Y3naqv4CW TAtPhwCVaxuE00VEbc4zqjlMjj9I55Z2zOtBstdKCqTMBrnV+dGj3bLa5xz3IUrKKm ohYkBpq8JFzoUi7fGR2H5HteYndnw5n7vmZt4ecfJV18jAaBVKxEbEchhZNYoyWGB3 ${\tt EOKGcPEdcdgqx+zCzndfud23lg2zvZntmJUVm3EzC31iY7RxODAeW6PmaurNbpRlkM}$ EteFIrmjW55sY0wEB3q4xO1MCoEeIL74/dQOr913EC9tO2jQulQGwdGwkr+tYUZ0cw qkAlaflme2yneeqM1QLHZJDGNTPCvCWe6DaSWdFEOKOdp3RQQLhK7x7KzxEk3C11Uo uw7RN6Xa/bkSv9ryvRE49OSxwpynk9ibg6XkleHPPOSRFaXH41RHwUThvXp2vr8I3m eJdpoMQ0jShExwACAtQ8ToWhUvlDs4MO3D+FtXJcUbuNIXckfe54Uqedp2+iYyrxSi rrmM/KB6V2bmIHSGEAECvEF/0D/MXOqxBUZ0cJ+WsU8j59OL2k/jP4UtCh9FmVbXOn aQR5za8R8slH+RSQC5z5hFwrquosoa3qeMP9gjC4uTeyHk9ya6p3VyjOjlOKiyApmH b4qcLt4UOoc2OXLoDT/qrIQI5/FvLf0OeH1LU0MBuUcq7XYFf8ri/uD8cFYLNz8Rh+ rAu8JLLsHSs7SuF84Xq5DiZXiG+QodAeMTQNYSIFE1ZF68P9v0GfUUN5/uJ6RRo9Tq oKUqLB1vpAeQb1clxMkWV3H9wiXi4U50XQqq7GAAXCqyc7+fNvTkYuDwVq/b9Zkl2h nRrz/l+bRWg8qQ60c7GVUbME0II4U5JpRGePNSIKamsxfv7LmLgG6lIycpHj2AfVrf flnfA98KklOSwIDYiEP4qT6HDIIQQInISHqvhlVTU4vktmVhz8CJr25yb0AOaNgxmL q8x4viV06zF0xrnLVpCCCGEOBm+ezKA+nplbSUBoFErMXtEN8we0Q3puUUoLK1CsK8 S/zunw8fH8mzeVtrlOxjSjZ9xQtSTw4L03CKUVNQKHQYhhBDCOnPfU3NLMiREhti5R f4GNlJPDqtcpVQ3Ia5C6SlFVS3NNCLEERo/hdUSPBq1EkvHRiIpSouUrHws25kNneH udS/EVwF/lafNN/vxXfib7UVJDgto4DEh4hHiK0d1HUNJDhGdAJUHiivEXVB0VGQw1 k+9z+pxVGxEIGRSCVKy8vH8lsxGrykotX1NQn+VJwZ3bcdmyC2ix1UsiI0IhFatdOq VtglxdpI/vibFdkJJJT0+JuIiAfDm+L6inqQyKjIYG/4yCDKpBPFd2+GR6FAAwO4zN 3H04m387YvTLb5e4SGFv1fL72/lhL60CrmzkUklWDo2EjO3ZIpitVtC3JFEAozsHYz Nx/gpnU+IrbQNHvdIpZIme0OE9sFj0Rh/X5j13ylZ+XhtVzby9bYPx6iuM+G5YRH49 0+XuQjRIdSTw5KkKC3WTY1p09Q6QojjTAyQml1IvThEdBjGugLx+qkxCPFVCBhRY/O +PoO9Z+pXCE/JysfMLZ12JThmG37ObfZnQizQST05LEqK0mJUpMbyLDPnpqHrD18RO ixCCCECKjBUY+aWTKybGoOkKK3Q4TTJxAAvbMvEWgzA8j05Dj+RaGksXMMFOuN5Gpd DSQ7LzM8yAeBXHhZjI/zS+iqQb8cgO0IIYXC3F8Nkqk8mxGrR91koKue2N5QW6HQRP PbIEZ4MiggQOgRCiBMy92K88vUZoUNpEdcJDgAE+fD3qI6SHA7xOICc8KRDoEroEAi xoFOM8ymrFvcUcl7w2AFASQ6H+nf0FzoEwrJCfRW8POnPhoiD2svDMnW+IUp+SFsEe ss5/QzdLufvkT+drTkUGkB3/a7m65M3kdA72K7XhPiKty4GcW411XWY08SCiRq1Euu nxuDp+zsLFB1xVqEqT7w2rq+nnS18Pq6iqcccMhcJdGQaHhGv9NwiSCQAY+NZoKCUp jQT7ugra/DzghFNVqi9UVwpdHjEyVTUGPHmnhxud0KPq1yDuUggcS0FpTU2JzhEOCo 3eay46WqefszKR3zXdni0fwfEd21nqSqb6C0XODribKrrTFbrUjWkkstY2Qc9rnIh5 sJPchm3T8nFXCqcED5JAKydHIP/93/94aNwj87q2dtPWgq5mRlNDG6X1QgUEXFFFTV GVrbD53qPlOTwYFSkBt4cnmw7B3ph5YS+nG2fEGcysnd7SKXArG2ZbjOTxVzILSXrb sXaoW8fwJt70X7sQAjqb7JtudGWoH6Ji9iIQO6D+oN73OYIbPWBiyi2cQl6R1wtqsT Ja8WcbZ8QZ7I/5xaybpS6zBpyUaF+yLppsKntwm/OwmSqT/Bc5f0T8fL38sSaKTHQV 9Ti9d3nWmxrfpaxdGwkLdDpS1Ky8vH+vouc72fDkebXCyHEnTBAs2MKnM2IXu1x4Pw tm9sXV9Ri0fdZLpng2DPYn/CjpLIWv+YV44N9v7X6mdM0WKSUT/S4ikNGE4PXdmXzs $i+qrky \\ I \\ 6z \\ 11XW/3 \\ a \\ 4rKXXMczoM \\ 92gsdAmnCx \\ 0dzb \\ UqqFyf \\ 3FmTdLkpyOJSeW \\ 0TTxwk$

hDgn09nTZhMURp3+3P+Ej3CuptG0oxvI9ObyuPm5GSQ6HXKXLHAAUMgnG9w8VOgxC3 Maf+ncOOgRRceaEj2a/3119nG+U5LDMaGKOdvkOvj91A51XXWcVcplMiokxHYUOgzR DLpNgUGe10GEQ1rw0ohsSIjUOvZbjahXEDqEqT6yfGoOMRaOwdXocvN2kdlNz+Fx93 IwGHrMoJSsfr+3Kds1HVBU1RkglEvirPFHC4Uwx4pgaI4NfrlJ3vqs4fuUOwqK8HHq tkcbnCU71KcOYvhq8NSEaco/6xGZI9yA8O7wLVu2/JHBOwuGzPo6Ze6eVLErJysfML ZkumeCYHbtyG2+Np3o8hHAtPa8Y878+K3QYoqL24u+Rj8ZPAY2f/Rdkzz+60Spqjfq q8waGv/OTpXYRAIQH+bAWo7ORSIBiAR45UpLDAvMsKle/gVrz02Us350N7sG08Cghh F9P3x/O276WjeuDZePsX5Kn9p5uNJ2hCs9vuVuk8XYpf8sZiA3D1Ndvapj08YGSHBa 40yyqfH0VLhZWCB0GEYFH+moR4svfasLEvQ3sHID1U2M4H8Q7+6GuuFFciWOX72B49 vBWtrnwm7MwmhqUV4h38HOvjO+mxIXh0X7cTTBhALv2K5vXWVY0JocFOqvmIkRou8/ mw1tO90mEHydyi/D3xJ4wmeqXsODKmp8us94rX1xRi+NX7oDHQr92O68rw3ldGef7M c+yiu/ajvN9AdSTwwohBlMRIgblNSahQ2iWmK4nYorFWV2+VQqjicHyPdwWWOWqjyH t8h3Ed2GnZ8jZ8dkxQEkOC2IjAqFVU6JDiJiM6evYFGy2SQA8Oyxc6DCc3g9ZBVh94 KLTDq1qwGBw13YuWTPH3pnxtAq5k5FJJRjXj/9y1YSQ5u05qxM6BPqoZJiT0B3zE3t DJZcJHY7TW3vQeadf6/RVkEklGBQeIHQorPH38sSckd1Ra0eHLq1C7oSMJqY7T/M7Y pwQIn5l1Ua8v+8iPknLQ0WNUehwnF51nfPOYf068wYe6tEe+3MKhQ6FNSWVtfj0+FW b20vA/yrk1JPDAneaXUUIsV9RORXQJMDfvz7jcosp27rchrdChnVTY2qVcmdEs6sIc U+x4QEOFY0j7qnKnuc6LsZX4YFRDi5V0haU5LBA6NlVUaF+qu6fEHcV4C1HZQ310hD 3IwEQ6G37IGqdoZoW6HRW5tlVQk0TzbppEGjPhLi3H88VQF9FY22Ie3rj0Si7ZhbrD Pw/9aAkhwUyqQRLx9aXAKd6GIQQQlzdnIQeGBMdarn22aKojP9lLSjJYUlSlBbPDY+ A5J4sh5IeQqqhriY8qH4Nw6QoLR7sYVv1Yn+VnMuQmkRTyFmSkpWP/xzObVQt08UG0 hNCCCEI8glfty41Kx8Hf7tj02tKBFi7y+6enMOHD2Ps2LEIDQ2FRCLBd999Z/VzhmG wZMkSaLVaeHl5ISEhARcvXrRqU1RUhClTpsDPzw/+/v6YPn06ysqs18w4c+YMhq0bB qVSibCwMLzzzjuNYvnyyy/Rq1cvKJVK903bF3v37rX37bDCXVYhJ8SV+as8qeeVQwE quqd2Kczda5+tAr3578mxO8kpLy9Hv379sGbNmiZ//s477+DDDz/E+vXrceLECXh7e yMxMRFVVXcHHE2ZMqXnzp1Damoqdu/ejcOHD+O5556z/NxqMGD06NHo3LkzMjIy806 772LZsmX4z3/+Y21z7NqxTJo0CdOnT8fJkycxfvx4jB8/H11ZWfa+pTajOjmEODe11 wfeGt8XAD1iZpu/lye2PhuHJW0jhA6FsOh2ebXd175gAcot2J3kPPzww3jjjTfwpz/ 9qdHPGIbBBx98qEWLFuHRRx9FdHQ0Pv30U9y8edPS45OTk4OU1BRs3LqRcXFxGDp0K P79739jx44duHnzJqBq69atqKmpwaZNm9CnTx888cQTeOmll/Cvf/3Lsq9Vq1YhKSk J8+fPR+/evbF8+XLExMRg9erVDh4Kx1GdHEKcm76yDgHecqybGgMNrUPHqpUT+2JIt yBW6qlp1Ur8dXqEC1EJx0fhGj1awb5K+699AjzuYHXqcW5uLnQ6HRISEizfU6vViIu LQ1paGgAgLS0N/v7+u0+++yxtEhISIJVKceLECUub4cOHQy6/27WVmJiICxcuoLi42 NKm4X7Mbcz7aUp1dTUMBoPVFxuErpPjiuQy8d5Pq+xdja4FAS64WF9zNH4KUS9OWFh ahaQoLX5eMAKjIONsfp2YP6tCe6BHeOuF27aW2pj9UFf8vGAEFo6JxPqpMaL+LDVFq vok7Z2J0UKH0ibm9xEbEWj3te92uZPPrtLp6hfECwmxPkGEhIRYfqbT6RAcHGz1cw8 PDwQGBlq1aWobDffRXBvzz5uyYsUKqNVqy1dYWJi9b7FJQtfJAQDvNiz+p1UrsX5qD B7uE9x6YztIJY53/c98sCursdzLWy7D3ITueG1EN7tf+//+r1+bTrCLk3tj1RP9sX3 GYJz4R0KLnx0J6pODrc/GWV6zdnKMUy32qPbywNZn43D01ZFYOaGvaB8HmU/YMqkEc TYuIPhYTAd8/HQs12GJko/Cts/f8O5Blv9va6mNId3aW9Y8SorSImPRKMxN6AG10rp nROOnwPqpMVg7eQB4XCLJJkvHRmJMtBbrp8ZA46cQOhy7mQ+nef0p87XPVkJ0CLjVF PKFCxdCr9dbvq5fv87Kdlv64zX/W+11fxdldMfWKxn7e3libkJ3nFmWiPVTY2z6wPl 7eWBuQnfLRfPnBSOQFKXF6in32XzxVHt5YM7I7s3+XAJgxrAIy//b49+TBuClkT04u 10bM7L+eL2c0AMvJ/Sw+T1LJcDayTEYEx2K1RP62r1f8x3QU0Mi8Gj/Dojv2g5yD2m rn5114/pgSLcqy2vGRGtxdlkiHonmbw2Yey8Wtv50JQDenhiNId2CIJNKkBS1xTobP qdatRJrJw/q5ULQ8M7UbFp8eKsXSAmAtyZEY3CXdnad6J2ZOWH95Z+jWj0+Ukn9cWz I/Pu355FqU78foP68+3JCd2QuGY3tMwZbzmdHXx2JpCqtxkSHYvWkGJv3wyWtWmm1b lNS1BZHXx2J7TMG45kh4cIGdw/JH19/HR7R6HOtued9NLz2tbZNv1cfN2P14aBGU78 uRUFBAbTauyfggoIC90/f39KmsNB6Fda6ujoUFRVZXq/RaFBQUGDVxvzv1tqYf94Uh UIBhYKbk6b5j/e1XdlWA7E0aiWWjo3EqEgNVh+4hPf3/dbqtjR+Ciwb1wdJUVrM+PQ XpGY3XrU2qoMf/jkmErERqVZ3N6MiNUjPLUJqtq7fnbpptXiav5cnnh4Sjtkjuje5C qxMKsG//twPz2/JbDXGtydGIylKi15a30bvWfvHe06K0mJAp4BGP2/JjGHhGNsvFAC wckJfm2Ix8/fyQE11XYtt1k4eqDHRoZZ/2/OeV08aqDHRd09S66fGYNnOc9AZWu+Cv fcOqKHWPjtNLWqnk0qwenIM/vVnEz5Ly8PVoqp0DlRhWnw43vvfeXx0OLfZWPxVnii

pqG30bwmafmQ+N6E7Zj7YDRlXi1FYWoVgXyWKy2vwwraWj1mAyhMrJvRtFH/Dz6lOX 4mi8hr4q+OoqahBoI8CGj+15XMtlUrs+qzcq7n31PDnOOPfi9xDihnDIlo8js8Nj4D cQ2p5/cwtmawMObj396OSy1BZawTTxMa1aiXG9dNi5+n8Rn+D4/ppmyxr4aiGCSuAV o/PjGF3j09DDX//5s/T7bJqvLj9ZJP7BFpeuVomlSC+a9N1WsZEa7Fe2vhvyxatfXZ s8fT9nTG6j9bqPG1mjju+azvERgQ2OpdIJbBazNNf5QmGYaBv5Rx373sA6j+rzX1G7 v1+w/POK0m9rX5PTb0P87nw1W/OWn1u742B79XHLftnmKb+dGx8sUSCb7/9FuPHjwd QP/A4NDQUf//73/G3v/ONQP1MqeDgYGzevBlPPPEEcnJyEBkZiV9//RUDBw4EAPzvf /9DUllSfv/9d4SGhmLdunX45z//iYKCAnh61t/N/+Mf/8A333yD8+fPAwAef/xxVFR UYNeuXZZ47r//fkRHR2P9+vU2xW8wGKBWq6HX6+Hnx876T0YT0+KHIiUrv/HFzE+BS bGdEB7k3eRrKmuMeGtvNvLuVCC8nOr/GBMJLxt6H1gLpTkpWflY+n0WCkob1zRomID Zup97f37gfAH++3Ou1R+wVFJ/Ulw4xvquICUrv91EQgLgkWgNEiI11v2mZuua/GNTK 2V4+7F+za6A29J+tC0kG+b3Zr5YB/ooc010BbanX7MqYd7SNpo7Trb+vpqy90w+/vn dWRQ3OA7m3929FxjzcWspWW1KS1Z+k8faWy7Dc8O7NJtM26u5/UgkaPbCb767vPc93 XvhaOO9rtibjQ1HbP+stnYx1aqVWJzcGxcLy7Hp5yvQV929YLX0+zGaGHyWlofcO+W QABqQFqCtv5f1M9LcZ6e1803e7caf1ebibuo42XN8WtNUrLb83dii4fFp6T239Nm51 /n3BaDRuaOp86Q9MQb7KjGwc4DVjYW5F8R8vj166TZScwqhr7z7d9HS57u5zwhb5x2 jicHqA5fw8dFclDSIia3f4b1svX7bneSUlZXh0qVLAIABAwbqX//6Fx566CEEBgaiU 6dOePvtt7Fy5Up88skniIiIwOLFi3HmzBlkZ2dDqazv+nr44YdRUFCA9evXo7a2Fk8 //TTuu+8+bNu2DQCg1+vRs2dPjB49GgsWLEBWVhaeeeYZvP/++5ap5seOHcMDDzyAl StXIjk5GTt27MBbb72FzMxMREXZNlWRiyTHFmxezLjS1MW74R12W9XUNe6BaOqur2E sN4srcOr3EgAShLdr/jVGE4Pj1+8g7cptAPV3S4O7tGs1bjbfsxh+x/bG4EjMjh5rR 97LvfsZFB6IjKvFLf6+bLlwtBarI5/V1ngomogNg8+IPTchQd4KQAIUGgps/huw5/i 0NVa22PK3bs9nR6i/dzY+31zHxFUMNl+/GTv99NNPD0p78ay+nnzySYZhGMZkMjGLF y9mQkJCGIVCwYwcOZK5cOGC1Tbu3LnDTJo0ifHx8WH8/PyYp59+miktLbVqc/r0aWb o0KGMQqFgOnTowKxcubJRLF988QXTo0cPRi6XM3369GH27Nlj13vR6/UMAEav19t3E AghhBAiGFuv3216XOXshOrJIYQQQojjbL1+u9XsKkIIIYS4D0pyCCGEEOKSKMkhhBB CiEuiJIcQQqqhLomSHEIIIYS4JEpyCCGEEOKSKMkhhBBCiEuiJIcQQqqhLonVBTqdj bkOosFgEDgSQgghhNjKfN1urZ6xWyc5paWlAICwsDCBIyGEEEKIvUpLS6FWq5v9uVs v62AymXDz5k34+vpC1hHXApkGgwFhYWG4fv06LTnBEzrm/KLjzT865vyjY84NhmFQW lqK0NBQSKXNj7xx654cqVSKjh07Ch1Gi/z8/OgPg2d0zPlFx5t/dMz5R8ecfS314Jj RwGNCCCGEuCRKcgghhBDikijJESmFQoGlS5dCoVAIHYrboGPOLzre/KNjzj865sJy6 4HHhBBCCHFd1JNDCCGEEJdESQ4hhBBCXBIlOYQQQqhxSZTkEEIIIcQlUZLDkZUrV0I ikWDOnDkAgKKiIrz44ovo2bMnvLy80K1TJ7z00kvQ6/VWr5NIJI2+duzYYdXm4MGDi ImJqUKhQLdu3bB58+ZG+1+zZq3Cw8OhVCoRFxeH9PR0rt6qKHB1vA8ePNhkG510Z7U ddzveqOPHHAA2b96M6OhoKJVKBAcHY9asWVY/P3PmDIYNGwalUomwsDC88847jbbx5 ZdfolevXlAqlejbty/27t3LyfsUE660eV5eXpOf8+PHj1ttg465bcd88+bNTR5PiUS CwsJCSzs61/OAIaxLT09nwsPDmejoaObll19mGIZhzp49y0yYMIHZuXMnc+nSJWb// v1M9+7dmYkTJ1q9FqDz8ccfM/n5+ZavyspKy8+vXLnCqFQqZt68eUx2djbz73//m5H JZExKSoqlzY4dOxi5XM5s2rSJOXfuHDNjxqzG39+fKSqo4OX9843L4/3TTz8xAJqLF y5YtTEajZY27na8GaZtx/y9995jQkNDma1btzKXLl1iTp8+zXz//feWn+v1eiYkJIS ZMmUKk5WVxWzfvp3x8vJiPvroI0ubo0ePMjKZjHnnnXeY7OxsZtGiRYynpydz9uxZX t6/ELg85rm5uQwAZt++fVaf85qaGksbOuYvMwxj2zGvqKiwOo75+flMYmIi88ADD1j a0LmcH5TksKy0tJTp3r07k5qayjzwwAOWP4ymfPHFF4xcLmdqa2st3wPAfPvtt82+5 pVXXmH690lj9b3HH3+cSUxMtPw7NjaWmTVrluXfRqORCQ0NZVasWGH/GxI5ro+3Ock pLi5uto07HW+GadsxLyoqYry8vJh9+/Y1+5q1a9cyAQEBTHV1teV7CxYsYHr27Gn59 5///GcmOTnZ6nVxcXHMX//6VwfflbhxfczNSc7JkyebbUPH/OVm2zZ1bmmosLCQ8fTOZD799FPL9+hczq96XMWyWbNmITk5GQkJCa221ev18PPzq4eH9RJis2bNQlBQEGJjY 7Fp0yarpeTT0tIabTsxMRFpaWkAgJqaGmRkZFi1kUqlSEhIsLRxJVwfb7P+/ftDq9V i1KhROHr0qOX77na8gbYd89TUVJhMJty4cQO9e/dGx44d8ec//xnXr1+3vCYtLQ3Dh w+HXC63fC8xMREXLlxAcXGxpU1LfweuhutjbjZu3DgEBwdj6NCh2Llzp9XP6Jg3r7l zi9mnn34KlUqFxx57zPI9Opfzw60X6GTbjh07kJmZiV9++aXVtrdv38by5cvx3HPPW X3/9ddfx4gRI6BSqfC///0PL7zwAsrKyvDSSy8BAHQ6HUJCQqxeExISAoPBgMrKShQ XF8NoNDbZ5vz58218h+LCx/HWarVYv3497rvvPlRXV2Pjxo148MEHceLECcTExOD27 dtuc7yBth/zK1euwGQy4a233sKqVauqVquxaNEijBo1CmfOnIFcLodOp0NERITVtsz

HV6fTISAgoNm/g3vHSrkCPo65j48P3nvvPQwZMgRSqRRff/01xo8fj++++w7jxo0D0 Pv5h4550+eWhv773/9i8uTJ8PLysnyPzuX8oCSHJdevX8fLL7+M1NRUKJXKFtsaDAY kJycjMjISy5Yts/rZ4sWLLf8/YMAAlJeX491337VcdEk9vo53z5490bNnT0ub+++/H 5cvX8b777+Pzz77jL035ATYOOYmkwm1tbX48MMPMXr0aADA9u3bodFo8NNPPyExMZH Lt+B0+DrmQUFBmDdvnuU1gwYNws2bN/Huu+9akhx3wda5xSwtLQ05OTlud74QC3pcx ZKMjAwUFhYiJiYGHh4e8PDwwKFDh/Dhhx/Cw8MDRqMRAFBaWoqkpCT4+vri22+/hae nZ4vbjYuLw++//47q6moAgEajQUFBgVWbgoIC+Pn5wcvLC0FBQZDJZE220Wg0LL5jY ff1vJsSGxuLS5cuAYDbHG+AnWOu1WoBAJGRkZbvtW/fHkFBQbh27RqA5j/j5p+111a OuWPHvClxcXGWzzlAx9zRc8vGjRvRv39/DBw40Or7dC7nByU5LBk5ciTOnj2LU6dOW b7uu+8+TJkyBadOnYJMJoPBYMDo0aMh18uxc+fOVu8SAODUqVMICAiwLO4WHx+P/fv 3W7VJTU1FfHw8AEAu12PgwIFWbUwmE/bv329p4wr4Ot7NtTFfONzleAPsHPMhQ4YAA C5cuGD5X1FREW7fvo3OnTsDqP+MHz58GLW1tZY2qamp6NmzJwICAixtWvo7cBV8Hf0 mNPycA3TMHTm3lJWV4YsvvsD06dMb/YzO5TwReuSzK2s4I1+v1zNxcXFM3759mUuXL llNLayrq2MYhmF27tzJbNiwqTl79ixz8eJFZu3atYxKpWKWLFli2aZ52uH8+fOZnJw cZs2aNU1001QoFMzmzZuZ70xs5rnnnmP8/f0ZnU7H6/vnGxfH+/3332e+++475uLFi 8zZs2eZ119+mZFKpVYzVdz1eDOM/cecYRjm0UcfZfr06cMcPXqUOXv2LPPII48wkZG RlunKJSUlTEhICDNt2jQmKyuL2bFjB6NSqRpNIffw8GD+3//7f0xOTq6zdOlS15/Ob MbFMd+8eTOzbds2Jicnh8nJyWHefPNNRiqVMps2bbJsg475ywzD2H7MGYZhNm7cyCi VyiZnZ9K5nB+U5HCo4R+GeSpyU1+5ubkMwzDMDz/8wPTv35/x8fFhvL29mX79+jHr1 6+3qsli3lb//v0ZuVzOdOnShfn4448b7fvf//4306lTJ0YulzOxsbHM8ePHOX63wuP ieL/99ttM165dGaVSyQQGBjIPPvggc+DAgUb7dsfjzTD2H3OGqb9IPPPMM4y/vz8TG BjI/OlPf2KuXbtmtd3Tp08zQ4cOZRQKBdOhQwdm5cqVjfb9xRdfMD169GDkcjnTp08 fZs+ePVy+VdHg4phv3ryZ6d27N6NSqRg/Pz8mNjaW+fLLLxvtm4657cecYRgmPj6em Tx5crPbpXM59yQM08R8WUIIIYQQJ0djcqqhhBDikijJIYQQQohLoiSHEEIIIS6Jkhx CCCGEuCRKcgghhBDikijJIYQQQohLoiSHEEIIIS6JkhxCCCGEuCRKcgghhBDikijJI YQQQohLoiSHEEIIIS6JkhxCCCGEuKT/DwC77AHaRrQvAAAAAE1FTkSuQmCC\n"

```
"metadata": {}
      ]
    },
      "cell type": "code",
      "source": [
        "df.corr()"
      "metadata": {
        "id": "8raG315jklb5",
        "outputId": "a26fa208-4ec4-4100-e2a0-cda8c5fcb930",
          "base uri": "https://localhost:8080/",
          "height": 1000
        }
      "execution count": null,
      "outputs": [
          "output type": "execute result",
          "data": {
            "text/plain": [
                                                               id
Date number of bedrooms \\\n",
              "id
                                                        1.000000
0.045966
                   -0.329034
                                \n",
```

	"Date	0.045966
1.000000	-0.015663 \n",	0.01000
	"number of bedrooms	-0.329034 -
0.015663	1.000000 \n",	
	"number of bathrooms	-0.516909 -
0.026485	0.509784 \n",	0.640105
0 001050	"living area	-0.648127 -
0.021958	0.570526 \n", "lot area	-0.100269
0.004392	0.034416 \n",	0.100209
0.001332	"number of floors	-0.312305 -
0.010335	0.177294 \n",	
	"waterfront present	-0.112937
0.012006	-0.006257 \n",	
	"number of views	-0.293004 -
0.004782	0.078665 \n",	
0 005400	"condition of the house	-0.045061 -
0.027402	0.026597 \n",	0 672440
0.033097	"grade of the house $0.352945 \n$ ",	-0.673448 -
0.033097	"Area of the house (excluding basement)	-0 565116 -
0.015994	0.473599 \n",	0.303110
0.010001	"Area of the basement	-0.290806 -
0.015711	0.300332 \n",	
	"Built Year	-0.068645 -
0.005869	0.152954 \n",	
	"Renovation Year	-0.109155 -
0.011636	0.016132 \n",	
0 010040	"Postal Code	0.294709
0.018243	-0.044156 \n", "Lattitude	-0.479334 -
0.023327	-0.013163 \n",	-0.4/9334 -
0.023327	"Longitude	-0.070841 -
0.018231	0.135712 \n",	
	"living_area_renov	-0.599900 -
0.032495	0.389855 \n",	
	"lot_area_renov	-0.089604 -
0.000050	0.029400 \n",	
0.004071	"Number of schools nearby	-0.004821 -
0.0040/1	0.003397 \n", "Distance from the airport	-0.004542
0.011457	-0.006157 \n",	0.004342
0.011107	"Price	-0.773114 -
0.027919	0.308460 \n",	
	"\n",	
	II	number of
bathrooms	living area \\\n",	
0 516000	"id	-
0.516909	-0.648127 \n",	
0.026485	"Date -0.021958 \n",	_
0.020403	"number of bedrooms	
0.509784	0.570526 \n",	
	- · · · · · · · · · · · · · · · · · · ·	

```
"number of bathrooms
1.000000
             0.753517 \ n",
             "living area
0.753517
            1.000000 \n",
             "lot area
0.080806
             0.174420
                      \n",
             "number of floors
0.502924
             0.354743 \n",
              "waterfront present
0.060104
             0.105837 \n",
              "number of views
0.183789
             0.287728 \n'',
              "condition of the house
0.128232
            -0.063358 \n",
              "grade of the house
0.663054
             0.761835 \n",
              "Area of the house(excluding basement)
0.684391
             0.875793 \ \n",
             "Area of the basement
0.287190
            0.441491 \n",
             "Built Year
0.498127
            0.309602 \n",
             "Renovation Year
0.049669
            0.059400 \n''
              "Postal Code
0.105546
            -0.080303 \n",
              "Lattitude
0.031156
            0.054518
                       \n",
             "Longitude
0.223904
             0.240208 \n",
             "living area renov
0.570530
             0.757571 \ n",
             "lot area renov
0.078627
             0.180312 \n",
             "Number of schools nearby
            0.002370 \n",
0.002180
             "Distance from the airport
0.009206
             0.002511 \ \n",
             "Price
0.531735
             0.712169 \n",
              "\n",
                                                     lot area
number of floors \\\n",
              "id
                                                    -0.100269
-0.312305
            \n",
              "Date
                                                     0.004392
-0.010335
           \n",
              "number of bedrooms
                                                     0.034416
0.177294
           \n",
             "number of bathrooms
                                                     0.080806
0.502924
             "living area
                                                     0.174420
0.354743
          \n",
```

	"lot area	1.000000
-0.004138	\n",	1.000000
1.000000	"number of floors \n",	-0.004138
1.000000	"waterfront present	0.026282
0.016316	\n", "number of views	0.078308
0.020153	\n",	0.076306
-0.269928	<pre>"condition of the house \n",</pre>	-0.008548
-0.209920	"grade of the house	0.110546
0.463082	<pre>\n", "Area of the house(excluding basement)</pre>	0.183553
0.525643	\n",	0.105555
-0.242976	"Area of the basement \n",	0.019755
	"Built Year	0.051615
0.481565	\n", "Renovation Year	0.006848
0.006705	\n",	0.00000.0
-0.129788	"Postal Code \n",	0.070131
	"Lattitude	-0.090983
0.050731	\n", "Longitude	0.221432
0.127550	\n",	
0.285093	"living_area_renov \n",	0.149744
	"lot_area_renov	0.706812
-0.010120	\n", "Number of schools nearby	-0.012671
-0.007579	\n",	
0.016567	"Distance from the airport \n",	0.003291
	"Price	0.081992
0.262732	\n", "\n",	
	"	waterfront
present n	umber of views \\\n", "id	_
0.112937	-0.293004 \n",	
0.012006	"Date -0.004782 \n",	
	"number of bedrooms	-
0.006257	0.078665 \n", "number of bathrooms	
0.060104	0.183789 \n",	
0.105837	"living area 0.287728 \n",	
	"lot area	
0.026282	0.078308 \n", "number of floors	
0.016316	0.020153 \n",	

```
"waterfront present
1.000000
                 0.400206 \n",
              "number of views
0.400206
                 1.000000 \n",
              "condition of the house
0.018644
                 0.052533 \n'',
              "grade of the house
0.079831
                 0.254532
                          \n",
              "Area of the house (excluding basement)
0.071865
                 0.162672
                          \n",
              "Area of the basement
0.085441
                 0.293062 \n",
              "Built Year
0.024226
               -0.055357
                          \n",
              "Renovation Year
0.085865
                0.102944 \n",
              "Postal Code
0.038318
                 0.039268
                            \n",
              "Lattitude
0.021795
                -0.004555
                            \n'',
              "Longitude
0.047791
               -0.079706
                            \n",
              "living area renov
0.085743
                 0.281452
                            \n",
              "lot area_renov
0.032055
                 0.072300
                           \n",
              "Number of schools nearby
0.001563
                 0.008004 \n",
              "Distance from the airport
0.001448
               -0.001657 \n",
              "Price
0.263687
                 0.395973
                            n'',
              "\n",
                                                      condition of
              \\\n",
the house
           . . .
              "id
-0.045061
               \n",
           . . .
             "Date
           ... \n",
-0.027402
              "number of bedrooms
0.026597 ...
               \n",
              "number of bathrooms
-0.128232
               \n",
          . . .
              "living area
-0.063358
               \n",
          . . .
              "lot area
           ... \n",
-0.008548
              "number of floors
-0.269928
               \n",
           . . .
              "waterfront present
0.018644
               \n",
          . . .
             "number of views
0.052533 ... \n",
```

```
"condition of the house
1.000000 ...
              \n",
             "grade of the house
-0.152530
          ... \n",
             "Area of the house (excluding basement)
-0.167695 ... \n",
             "Area of the basement
0.180609 ...
              \n",
             "Built Year
          ... \n",
-0.381718
             "Renovation Year
-0.062126 ... \n",
             "Postal Code
0.045334 ...
              \n",
             "Lattitude
-0.002998 ... \n",
             "Longitude
          ... \n",
-0.121189
             "living_area_renov
-0.099743
          ... \n",
            "lot area_renov
          ... \n",
-0.004748
             "Number of schools nearby
          ... \n",
-0.006939
             "Distance from the airport
-0.002136 ... \n",
             "Price
0.041376 ... \n",
             "\n",
                                                     Built Year
Renovation Year \\\n",
             "id
                                                      -0.068645
-0.109155
           \n",
             "Date
                                                      -0.005869
-0.011636
           \n",
             "number of bedrooms
                                                       0.152954
0.016132
          \n",
             "number of bathrooms
                                                       0.498127
0.049669
             "living area
                                                       0.309602
0.059400
             "lot area
                                                       0.051615
0.006848
             "number of floors
                                                       0.481565
0.006705
          \n",
                                                      -0.024226
             "waterfront present
0.085865
             "number of views
                                                      -0.055357
0.102944
          \n",
             "condition of the house
                                                      -0.381718
-0.062126
           \n",
             "grade of the house
                                                      0.440358
0.014501 \n",
```

	"Area of the house(excluding basement)	0.419369
0.025727	\n", "Area of the basement	-0.138843
0.075104	\n",	
-0.233683	"Built Year \n",	1.000000
	"Renovation Year	-0.233683
1.000000	\n", "Postal Code	-0.062349
0.018006	\n", "Lattitude	-0.143153
0.028908	\n",	-0.143133
-0.080050	"Longitude \n",	0.414591
0.000050	"living_area_renov	0.328625
-0.002601	<pre>\n", "lot_area_renov</pre>	0.072874
0.005869	\n",	
-0.000826	"Number of schools nearby \n",	-0.001631
	"Distance from the airport	-0.003968
0.005342	\n", "Price	0.050307
0.133173	\n",	
	"\n",	Postal Code
Lattitude	Longitude \\\n", "id	0.294709
-0.479334	-0.070841 \n",	0.294709
-0.023327	"Date -0.018231 \n",	0.018243
0.023327	"number of bedrooms	-0.044156
-0.013163	0.135712 \n", "number of bathrooms	-0.105546
0.031156	0.223904 \n",	
0.054518	"living area 0.240208 \n",	-0.080303
	"lot area	0.070131
-0.090983	0.221432 \n", "number of floors	-0.129788
0.050731	0.127550 \n",	
-0.021795	<pre>"waterfront present -0.047791 \n",</pre>	0.038318
0 004555	"number of views	0.039268
-0.004555	-0.079706 \n", "condition of the house	0.045334
-0.002998	-0.121189 \n",	0 146343
0.115256	"grade of the house $0.203754 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	-0.146342
-0.000088	"Area of the house (excluding basement) 0.345899 \n",	-0.083730
	"Area of the basement	-0.010542
0.112989	-0.145879 \n",	

	"Built Year	-0.062349	
-0.143153	0.414591 \n",		
	"Renovation Year	0.018006	
0.028908	•		
0 010150	"Postal Code	1.000000	
-0.310172	-0.099003 \n",	0 210170	
1.000000	"Lattitude -0.131472 \n",	-0.310172	
1.000000	"Longitude	-0.099003	
-0.131472	1.000000 \n",	0.033003	
0.131172	"living_area_renov	-0.108454	
0.046148	0.341221 \n",		
	"lot area renov	0.077483	
-0.091622	$0.2580\overline{6}6$ \sqrt{n} ",		
	"Number of schools nearby	0.010605	
0.014949	-0.010163 \n",		
	"Distance from the airport	0.011528	
0.007193	-0.003100 \n",		
0 0001400	"Price	-0.115908	
0.297490	0.024414 \n",		
	"\n",		
living an	ea renov lot area renov \\\n",		
TIVING_ar	"id	_	
0.599900	-0.089604 \n",		
0.00000	"Date	_	
0.032495	-0.000050 \n",		
	"number of bedrooms		
0.389855	0.029400 \n",		
	"number of bathrooms		
0.570530	0.078627 \n",		
	"living area		
0.757571	0.180312 \n",		
0 1 1 0 1 1 1	"lot area		
0.149744	0.706812 \n",		
0.285093	"number of floors		
0.203093	-0.010120 \n", "waterfront present		
0.085743	0.032055 \n",		
0.003743	"number of views		
0.281452	0.072300 \n",		
	"condition of the house	_	
0.099743	-0.004748 \n",		
	"grade of the house		
0.720019	0.116725 \n",		
	"Area of the house(excluding basement)		
0.737744	0.194670 \n",		
	"Area of the basement		
0.196403	0.011283 \n",		
0 220625	"Built Year		
0.328625	0.072874 \n",		
0.002601	"Renovation Year 0.005869 \n",	_	
0.002001	0.000009 \11 ,		

```
"Postal Code
0.108454
                0.077483
                          \n",
              "Lattitude
0.046148
               -0.091622
                          \n",
              "Longitude
0.341221
                0.258066
                           \n",
              "living area renov
1.000000
                0.189225
                           \n",
              "lot area renov
                1.000000
0.189225
                          \n",
              "Number of schools nearby
0.001203
               -0.025014
                           \n",
              "Distance from the airport
0.005673
               -0.014587 \n",
              "Price
0.584924
               0.075535
                          \n",
              "\n",
                                                        Number of
schools nearby \\\n",
              "id
-0.004821
            \n",
              "Date
-0.004071
            \n",
              "number of bedrooms
           \n",
0.003397
              "number of bathrooms
0.002180
           \n",
              "living area
0.002370
           \n",
              "lot area
-0.012671
            \n",
              "number of floors
-0.007579
            \n",
              "waterfront present
0.001563
           \n",
              "number of views
0.008004
           \n",
              "condition of the house
-0.006939
              "grade of the house
0.000986
           \n",
              "Area of the house (excluding basement)
-0.002894
            \n",
              "Area of the basement
0.010284
           \n",
              "Built Year
-0.001631
              "Renovation Year
-0.000826
            \n",
              "Postal Code
0.010605
           \n",
              "Lattitude
0.014949
           \n",
```

```
"Longitude
            \n",
-0.010163
              "living area renov
-0.001203
              "lot area renov
-0.025014
           \n",
              "Number of schools nearby
1.000000
              "Distance from the airport
0.004035
           \n",
             "Price
0.009890
              "\n",
                                                      Distance
from the airport
                  Price \n",
             "id
-0.004542 - 0.773114 \n,
              "Date
0.011457 - 0.027919 \n",
              "number of bedrooms
-0.006157 0.308460 \n",
             "number of bathrooms
0.009206 \quad 0.531735 \quad n",
             "living area
0.002511 0.712169 \n",
              "lot area
0.003291 0.081992 \n",
             "number of floors
0.016567 0.262732 \n",
             "waterfront present
0.001448 0.263687 \n",
              "number of views
-0.001657 0.395973 \n",
              "condition of the house
-0.002136 0.041376 \n",
              "grade of the house
0.004940 0.671814 \n",
             "Area of the house (excluding basement)
0.001222 0.615220 \n",
              "Area of the basement
0.002926 0.330202 \n",
              "Built Year
-0.003968 0.050307 \n",
              "Renovation Year
0.005342 0.133173 \n",
             "Postal Code
0.011528 - 0.115908 \n",
              "Lattitude
0.007193 0.297490 \n",
              "Longitude
-0.003100 0.024414 \n",
              "living area renov
-0.005673 0.584924 \sqrt{n},
```

```
"lot area renov
-0.014587 0.075535 \n",
           "Number of schools nearby
0.004035
        0.009890 \n'',
           "Distance from the airport
1.000000
        0.003804 \n",
           "Price
0.003804 1.000000 \n",
           "\n",
           "[23 rows x 23 columns]"
          "text/html": [
           "\n",
           " <div id=\"df-91d139d1-c112-461d-ac4d-
65aab9b1d471\">\n",
               <div class=\"colab-df-container\">\n",
           "
                 < div > n",
           "<style scoped>\n",
                .dataframe tbody tr th:only-of-type {\n",
           "
                  vertical-align: middle; \n",
           11
               }\n",
           "\n",
           **
                .dataframe thody tr th \{\n'',
           11
                   vertical-align: top;\n",
           **
               }\n",
           "\n",
           "
                .dataframe thead th \{ n'',
           "
                   text-align: right; \n",
                } \n'',
           "</style>\n",
           "\n",
              <thead>\n",
           "
                \n",
           "
                 \n",
           "
                 id\n",
           11
                 Date\n",
           "
                 number of bedrooms\n",
           **
                 number of bathrooms\n",
                 living area\n",
           "
                 lot area\n",
           "
                 number of floors\n",
           11
                 waterfront present\n",
           **
                 number of views\n",
           **
                 condition of the house\n",
           "
                 ...\n",
           **
                 Built Year\n",
                 Renovation Year\n",
           **
                 Postal Code\n",
           "
                 Lattitude\n",
           •
                 Longitude\n",
                 living area renov\n",
           11
                 lot area renov\n",
                 Number of schools nearby\n",
                 Distance from the airport\n",
```

```
"
    Price\n",
   \n",
  </thead>\n",
  \n",
11
   \n",
    id\n",
"
    1.000000\n",
    0.045966\n",
**
    -0.329034\n"
    -0.516909\n"
**
    -0.648127\n",
    -0.100269\n",
**
    -0.312305\n",
    -0.112937\n",
"
    -0.293004\n",
"
    -0.045061\n",
    \...\n",
    -0.068645\n",
"
    -0.109155\n",
    0.294709\n",
**
     -0.479334  \n''
"
    -0.070841\n"
    -0.599900\n",
11
    -0.089604\n",
"
    -0.004821\n"
    -0.004542\n"
    -0.773114\n",
11

n",
"
   \n",
"
    Date\n",
    0.045966\n",
    1.000000\n",
**
    -0.015663\n"
    -0.026485\n"
    -0.021958\n",
11
    0.004392\n",
**
    -0.010335\n",
"
    0.012006\n",
    -0.004782\n",
"
    -0.027402\n",
**
    \...\n",
11
    -0.005869\n",
    -0.011636\n",
"
    0.018243\n",
    -0.023327\n",
11
    -0.018231\n",
    -0.032495\n",
11
    -0.000050\n",
    -0.004071\n",
"
    0.011457\n"
    -0.027919\n",
11
   \n",
   <tr>\n",
    number of bedrooms\n",
```

```
-0.329034\n",
    -0.015663\n",
    1.000000\n",
    0.509784\n",
**
    0.570526\n",
    0.034416\n",
"
    0.177294\n",
    -0.006257\n",
"
    0.078665\n",
    0.026597\n",
**
    \...\n",
    0.152954\n",
**
    0.016132\n",
    -0.044156\n"
    -0.013163\n",
    0.135712\n",
    0.389855\n",
    0.029400\n"
"
    0.003397\n",
    -0.006157\n",
"
    0.308460\n",
"
   \n",
    \n'',
11
    number of bathrooms\n",
**
    -0.516909\n",
    -0.026485\n"
    0.509784\n",
    1.000000\n",
    0.753517\n",
    0.080806\n",
    0.502924\n",
    0.060104\n",
"
    0.183789\n"
    -0.128232\n",
    \...\n",
    0.498127\n",
    0.049669\n",
    -0.105546\n",
    0.031156\n",
"
    0.223904\n",
    0.570530\n"
11
    0.078627\n"
    0.002180\n",
"
    0.009206\n",
    0.531735\n",
11
   \n",
    n",
11
    living area\n",
    -0.648127\n",
"
    -0.021958\n"
    0.570526\n",
    0.753517\n",
    1.000000\n",
    0.174420\n",
```

```
0.354743\n",
    0.105837\n",
    0.287728\n",
    -0.063358\n",
"
    ...\n",
    0.309602\n",
"
    0.059400\n",
    -0.080303\n",
"
    0.054518\n",
    0.240208\n"
**
    0.757571\n",
    0.180312\n",
**
    0.002370\n",
    0.002511\n"
"
    0.712169\n",
11
   \n",
   <tr>\n",
    lot area\n",
**
    -0.100269\n",
    0.004392\n",
**
    0.034416\n",
"
    0.080806\n"
    0.174420\n",
11
    1.000000\n",
"
    -0.004138\n",
    0.026282\n",
    0.078308\n",
    -0.008548\n",
    \...\n",
"
    0.051615\n",
    0.006848\n",
11
    0.070131\n",
"
    -0.090983\n"
    0.221432\n"
    0.149744\n",
11
    0.706812\n",
**
    -0.012671\n",
"
    0.003291\n",
    0.081992\n",
"
   \n",
"
   <tr>\n",
**
    number of floors\n",
    -0.312305\n",
11
    -0.010335\n",
    0.177294\n",
    0.502924\n"
    0.354743\n",
11
    -0.004138\n",
    1.000000\n"
"
    0.016316\n"
    0.020153\n",
11
    -0.269928\n",
    \...\n",
    0.481565\n",
```

```
0.006705\n",
    -0.129788\n",
    0.050731\n",
    0.127550\n",
"
    0.285093\n",
    -0.010120\n",
"
    -0.007579\n",
    0.016567\n",
"
    0.262732\n",
   \n",
11
   \n",
    waterfront present\n",
**
    -0.112937\n",
    0.012006\n",
    -0.006257\n",
    0.060104\n",
    0.105837\n",
    0.026282\n"
"
    0.016316\n",
    1.000000\n",
**
    0.400206\n",
"
    0.018644\n",
    \...\n",
11
    -0.024226\n",
"
    0.085865\n",
    0.038318\n"
    -0.021795\n",
    -0.047791\n",
"
    0.085743\n",
"
    0.032055\n",
    0.001563\n",
"
    0.001448\n",
"
    0.263687\n",
"
   \n",
   <tr>\n",
**
    number of views\n",
    -0.293004\n",
    -0.004782\n",
    0.078665\n",
"
    0.183789\n",
    0.287728\n"
11
    0.078308\n"
    0.020153\n",
"
    0.400206\n",
    1.000000\n",
    0.052533\n",
    \...\n",
11
    -0.055357\n",
    0.102944\n",
"
    0.039268\n"
    -0.004555\n",
11
    -0.079706\n",
    0.281452\n",
    0.072300\n",
```

```
0.008004\n",
    -0.001657\n",
    0.395973\n",
   \n",
11
    n",
    condition of the house\n",
    -0.045061\n",
    -0.027402\n",
"
    0.026597\n",
    -0.128232\n"
    -0.063358\n",
    -0.008548\n",
"
    -0.269928\n",
    0.018644\n",
    0.052533\n",
    1.000000\n",
    \...\n",
    -0.381718\n"
"
    -0.062126\n",
    0.045334\n",
"
    -0.002998\n"
"
    -0.121189\n",
    -0.099743\n",
11
    -0.004748\n",
"
    -0.006939\n"
    -0.002136\n",
    0.041376\n",
11
   \n",
   \n",
11
    grade of the house\n",
    -0.673448\n",
    -0.033097\n",
"
    0.352945\n",
    0.663054\n"
    0.761835\n",
    0.110546\n",
    0.463082\n",
    0.079831\n",
    0.254532\n",
    -0.152530\n",
    \...\n",
    0.440358\n",
    0.014501\n",
    -0.146342\n",
    0.115256\n",
    0.203754\n",
    0.720019\n",
11
    0.116725\n",
    0.000986\n"
"
    0.004940\n",
    0.671814\n",
11
   \n",
   <tr>\n",
```

```
Area of the house (excluding
basement) \n",
              -0.565116\n",
              -0.015994\n",
         **
              0.473599\n",
              0.684391\n",
         "
              0.875793\n",
              0.183553\n",
         "
              0.525643\n",
              0.071865\n"
         11
             0.162672\n",
              -0.167695\n",
         "
              \...\n",
              0.419369\n",
              0.025727\n",
              -0.083730\n",
              -0.000088\n",
              0.345899\n",
         "
              0.737744\n",
              0.194670\n",
         "
              -0.002894\n",
         11
             0.001222\n",
              0.615220\n",
         11
            \n",
         "
            <tr>\n",
              Area of the basement\n",
              -0.290806\n",
         11
              -0.015711\n",
              0.300332\n",
             0.287190\n",
             0.441491\n",
             0.019755\n",
         "
              -0.242976\n",
              0.085441\n",
              0.293062\n",
         11
              0.180609\n",
              \...\n",
             -0.138843\n",
              0.075104\n",
              -0.010542\n",
              0.112989\n",
              -0.145879\n"
              0.196403\n",
         11
             0.011283\n",
              0.010284\n",
         11
             0.002926\n",
              0.330202\n",
         11
            \n",
            \n",
         **
              Built Year\n",
              -0.068645\n",
             -0.005869\n",
              0.152954\n",
             0.498127\n",
```

```
0.309602\n",
    0.051615\n",
    0.481565\n"
    -0.024226\n",
**
    -0.055357\n",
    -0.381718\n",
"
    \...\n",
    1.000000\n",
"
    -0.233683\n",
    -0.062349\n"
**
    -0.143153\n",
    0.414591\n",
"
    0.328625\n",
    0.072874\n"
    -0.001631\n",
"
    -0.003968\n",
    0.050307\n",

n",
"
   \n",
    Renovation Year\n",
**
    -0.109155\n",
    -0.011636\n",
    0.016132\n",
    0.049669\n",
"
    0.059400\n",
    0.006848\n"
    0.006705\n",
    0.085865\n",
    0.102944\n",
    -0.062126\n",
    \...\n",
    -0.233683\n",
"
    1.000000\n",
    0.018006\n"
    0.028908\n",
    -0.080050\n",
    -0.002601\n",
    0.005869\n"
    -0.000826\n",
"
    0.005342\n",
"
    0.133173\n",
11
   \n",
   <tr>\n",
    Postal Code\n",
    0.294709\n",
    0.018243\n"
    -0.044156\n",
    -0.105546\n",
    -0.080303\n"
"
    0.070131\n"
    -0.129788\n",
    0.038318\n",
    0.039268\n",
    0.045334\n",
```

```
\...\n",
    -0.062349\n",
    0.018006\n",
    1.000000\n",
"
    -0.310172\n"
    -0.099003\n",
"
    -0.108454\n",
    0.077483\n",
**
    0.010605\n",
    0.011528\n"
**
    -0.115908\n",

n",
**
   \n",
    Lattitude\n",
"
    -0.479334\n",
"
    -0.023327\n",
    -0.013163\n",
    0.031156\n"
"
    0.054518\n"
    -0.090983\n",
**
    0.050731\n",
"
    -0.021795\n"
    -0.004555\n",
11
    -0.002998\n",
"
    \...\n",
    -0.143153\n",
    0.028908\n",
**
    -0.310172\n",
"
    1.000000\n",
"
    -0.131472\n",
    0.046148\n",
"
    -0.091622\n",
**
    0.014949\n",
"
    0.007193\n"
    0.297490\n",
11
   \n",
**
   \n",
**
    Longitude\n",
    -0.070841\n",
"
    -0.018231\n",
**
    0.135712\n",
**
    0.223904\n"
    0.240208\n",
"
    0.221432\n",
    0.127550\n",
11
    -0.047791\n",
    -0.079706\n",
11
    -0.121189\n",
    \...\n",
"
    0.414591\n",
    -0.080050\n",
11
    -0.099003\n",
    -0.131472\n",
    1.000000\n",
```

```
**
    0.341221\n",
    0.258066\n"
    -0.010163\n"
    -0.003100\n",
**
    0.024414\n",
   \n",
"
   <tr>\n",
    living area renov\n",
**
    -0.599900\n",
     -0.032495  \n'',
"
    0.389855\n",
    0.570530\n",
**
    0.757571\n",
    0.149744\n"
"
    0.285093\n",
    0.085743\n",
    0.281452\n",
    -0.099743\n"
"
    \...\n",
    0.328625\n",
**
    -0.002601\n"
"
    -0.108454\n",
    0.046148\n",
11
    0.341221\n",
"
    1.000000\n",
    0.189225\n"
    -0.001203\n",
    -0.005673\n",
"
    0.584924\n",
"
   \n",
    \n'',
**
    lot area renov\n",
**
    -0.089604\n",
    -0.000050\n",
    0.029400\n",
11
    0.078627\n",
"
    0.180312\n",
"
    0.706812\n",
    -0.010120\n",
"
    0.032055\n",
**
    0.072300\n"
**
    -0.004748\n"
    \...\n",
"
    0.072874\n",
    0.005869\n",
11
    0.077483\n",
    -0.091622\n",
11
    0.258066\n",
    0.189225\n"
"
    1.000000\n"
    -0.025014\n",
11
    -0.014587\n",
    0.075535\n",
   \n",
```

```
"
    \n'',
    Number of schools nearby\n",
"
    -0.004821\n",
    -0.004071\n",
"
    0.003397\n",
    0.002180\n",
"
    0.002370\n"
    -0.012671\n",
**
    -0.007579\n",
    0.001563\n",
**
    0.008004\n"
    -0.006939\n",
**
    \...\n",
    -0.001631\n",
    -0.000826\n",
    0.010605\n",
    0.014949\n"
    -0.010163\n"
"
    -0.001203\n",
    -0.025014\n",
**
    1.000000\n",
"
    0.004035\n"
    0.009890\n",
11
   \n",
**
   \n",
    Distance from the airport\n",
    -0.004542  n",
    0.011457\n",
"
    -0.006157\n"
    0.009206\n",
    0.002511\n",
11
    0.003291\n",
"
    0.016567\n"
    0.001448\n"
    -0.001657\n",
11
    -0.002136\n",
"
    \...\n",
"
    -0.003968\n",
    0.005342\n",
"
    0.011528\n",
    0.007193\n"
11
    -0.003100\n"
    -0.005673\n",
11
    -0.014587\n",
    0.004035\n",
11
    1.000000\n",
    0.003804\n",
11
   \n",
   \n",
**
    Price\n",
    -0.773114\n",
11
    -0.027919\n",
    0.308460\n",
    0.531735\n",
```

```
"
                   0.712169\n",
                   0.081992\n",
            "
                   0.262732\n",
                   0.263687\n",
            **
                   0.395973\n",
                   0.041376\n",
            "
                   \n",
                   0.050307\n",
            "
                   0.133173\n",
                   -0.115908\n",
            11
                   0.297490\n",
                   0.024414\n",
            "
                   0.584924\n",
                   0.075535\n",
            "
                   0.009890\n",
            11
                   0.003804\n",
            "
                   1.000000\n",
                 \n",
               \n",
            "\n",
            "<p>23 rows \times 23 columns</p>\n",
            "</div>\n",
                   <button class=\"colab-df-convert\"</pre>
onclick=\"convertToInteractive('df-91d139d1-c112-461d-ac4d-
65aab9b1d471')\"\n",
                          title=\"Convert this dataframe to an
interactive table.\"\n",
                          style=\"display:none;\">\n",
                    \n",
            " <svg xmlns=\"http://www.w3.org/2000/svg\"</pre>
height=\"24px\"viewBox=\"0 0 24 24\"\n",
                   width=\"24px\">\n",
            "
                 <path d=\"M18.56 5.441.94 2.06.94-2.06 2.06-</pre>
.94-2.06-.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06
2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-
2.06 2.06-.94-2.06-.94-.94-2.06-.94 2.06-2.06.94z\"/><path
d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0 2.83L4
21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-
2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47
1.35L5.41 20z\"/>\n",
               </svg>\n",
                   </button>\n",
                   \n",
            "
               <style>\n",
                 .colab-df-container {\n",
            11
                   display:flex; \n",
                   flex-wrap:wrap; \n",
            "
                   gap: 12px; \n",
            11
                 }\n",
            "\n",
                 .colab-df-convert {\n",
                   background-color: #E8F0FE; \n",
```

```
"
                      border: none; \n",
                      border-radius: 50%; \n",
                      cursor: pointer; \n",
                      display: none; \n",
               **
                      fill: #1967D2;\n",
                      height: 32px; \n",
               11
                      padding: 0 0 0 0; \n",
                      width: 32px; \n",
               **
                    }\n",
              "\n",
               "
                    .colab-df-convert:hover {\n",
                     background-color: #E2EBFA; \n",
               11
                     box-shadow: Opx 1px 2px rgba(60, 64, 67,
0.3), Opx 1px 3px 1px rgba(60, 64, 67, 0.15); \n",
                     fill: #174EA6;\n",
               **
                   }\n",
               "\n",
                    [theme=dark] .colab-df-convert {\n",
               "
                     background-color: #3B4455; \n",
                      fill: #D2E3FC;\n",
               "
                    }\n",
              "\n",
                    [theme=dark] .colab-df-convert:hover {\n",
               "
                      background-color: #434B5C; \n",
                      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0,
0.15); n",
                      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3)); \n",
                      fill: #FFFFFF; \n",
               11
                    }\n",
                 </style>\n",
              "\n",
                      <script>\n",
               "
                        const buttonEl =\n'',
                          document.querySelector('#df-91d139d1-
c112-461d-ac4d-65aab9b1d471 button.colab-df-convert'); \n",
                      buttonEl.style.display =\n",
                          google.colab.kernel.accessAllowed ?
'block' : 'none'; \n",
              "\n",
                        async function convertToInteractive(key)
\{ \n",
                          const element =
document.querySelector('#df-91d139d1-c112-461d-ac4d-
65aab9b1d471'); \n",
                          const dataTable =\n",
                            await
google.colab.kernel.invokeFunction('convertToInteractive', \n",
[key], \{\}); \n",
                          if (!dataTable) return; \n",
               "\n",
                         const docLinkHtml = 'Like what you see?
Visit the ' +\n'',
```

```
'<a target=\" blank\"</pre>
href=https://colab.research.google.com/notebooks/data table.ipynb>
data table notebook</a>'\n",
                           + ' to learn more about interactive
tables.'; \n",
                         element.innerHTML = ''; \n",
                         dataTable['output type'] =
'display_data';\n",
                         await
google.colab.output.renderOutput(dataTable, element);\n",
                         const docLink =
document.createElement('div'); \n",
                         docLink.innerHTML = docLinkHtml; \n",
                         element.appendChild(docLink); \n",
              11
                       }\n",
                     </script>\n",
              "
                  </div>\n",
              " </div>\n",
            ]
          },
          "metadata": {},
          "execution count": 55
      ]
    },
      "cell type": "code",
      "source": [
       "data = pd.Series([1, np.nan, 2, None, 3],
index=list('abcde'))\n",
        "data"
      "metadata": {
        "id": "Ss0Zs-e1mXfK",
        "outputId": "b455b6e7-de12-43f1-98e3-e9389221b69d",
        "colab": {
          "base uri": "https://localhost:8080/"
        }
      "execution count": null,
      "outputs": [
          "output type": "execute result",
          "data": {
            "text/plain": [
              "a
                   1.0\n",
              "b
                   NaN\n",
              "C
                   2.0\n",
              "d
                  NaN\n",
                   3.0\n",
              "dtype: float64"
            ]
          },
```

```
"metadata": {},
          "execution count": 59
      1
    },
      "cell type": "code",
      "source": [
        "df\n"
      "metadata": {
        "id": "2RPphlnksBwm",
        "outputId": "6ac239a4-e2e5-46ca-d885-795adb3f434b",
        "colab": {
          "base uri": "https://localhost:8080/",
          "height": 540
        }
      },
      "execution count": null,
      "outputs": [
          "output type": "execute result",
          "data": {
            "text/plain": [
                               id Date number of bedrooms
number of bathrooms \\\n",
              "0
                     6762810145 42491
                                                            5
2.50
       \n'',
              "1
                      6762810635 42491
                                                            4
2.50
       \n",
              "2
                      6762810998 42491
                                                            5
2.75
      \n",
              "3
                      6762812605 42491
                                                            4
2.50
       \n'',
              '' 4
                     6762812919 42491
                                                            3
2.00
       \n",
              " . . .
                             . . .
                                  . . .
                                                         . . .
      \n'',
. . .
              "14615 6762830250 42734
                                                           2
1.50
       \n",
              "14616 6762830339 42734
                                                            3
2.00
       \n",
              "14617 6762830618 42734
                                                            2
1.00
      \n",
              "14618 6762830709 42734
                                                            4
1.00
      \n",
              "14619 6762831463 42734
                                                            3
1.00
       \n",
              "\n",
                      living area lot area number of floors
waterfront present \\\n",
                             3650
                                        9050
                                                           2.0
0 \n",
```

0 \	\n",	"1		2920		4000		1.5	
		"2		2910		9480		1.5	
0 /	\n",	" 3		3310		42998		2.0	
0 /	\n",	" 4		2710		4500		1.5	
0 /	n",								
	\n",	"		• • •		• • •		• • •	
0 \	\n",	" 14615		1556		20000		1.0	
	\n",	"14616		1680		7000		1.5	
		" 14617		1070		6120		1.0	
	\n",	"14618		1030		6621		1.0	
0 /	\n",	" 14619		900		4770		1.0	
0 \	n",	"\n",							
D '1.	37	11	number	of vi	.ews	condition	of the	house	
		\\\n", "0			4			5	
1921	\n",	" 1			0			5	
1909	\n",	"2			0			3	
1939	\n",	" 3			0			3	• • •
2001	\n",	-							• • •
1929	\n",	" 4			0			4	• • •
	\n",	"			• • •				• • •
		" 14615			0			4	
1957	\n",	"14616			0			4	
1968	\n",	" 14617			0			3	
1962	\n",	" 14618			0			4	
1955	\n",	" 14619			0			3	
1969	\n",				Ü			J	•••
		"\n",	Renovat	tion Y	ear"	Postal Co	de Lati	titude	
Longi	ltude l	iving_are	a_renov	\\\r	n", 0	1220	0.3 5:	2.8645	_
114.5	557	"1	2880	\n",					
114.470			2470	\n",	0	1220		2.8878	_
114.468		"2	2940	\n",	0	1220	04 52	2.8852	-

```
"3
                                          122005 52.9532 -
                                 0
114.321
                     3350
                           \n",
             '' 4
                                 0
                                          122006
                                                   52.9047 -
114.485
                     2060
                           \n",
             '' . . . .
                                            . . .
                                                      . . .
                  ... \n",
. . .
             "14615
                                 0
                                          122066 52.6191
114.472
                     2250
                           \n",
             "14616
                                  0
                                          122072 52.5075
114.393
                     1540
                           \n",
                                  0
                                          122056 52.7289 -
             "14617
114.507
                     1130
                           \n",
             "14618
                                          122042 52.7157 -
114.411
                     1420
                           \n",
             "14619
                              2009
                                          122018 52.5338 -
                    900 \n",
114.552
             "\n",
                     lot area renov Number of schools nearby
Distance from the airport \\\n",
             "0
                              5400
                                                          2
58
    \n",
             "1
                                                          2
                              4000
51
    \n",
             "2
                              6600
                                                          1
    \n",
53
             "3
                             42847
                                                          3
76
    \n",
             '' 4
                             4500
                                                          1
51
    \n",
             "...
                              . . .
                                                         . . .
    \n",
. . .
             "14615
                             17286
                                                          3
76
    \n",
             "14616
                                                          3
                             7480
59
    \n",
             "14617
                             6120
                                                          2
64
    \n",
             "14618
                             6631
                                                          3
54
    \n",
             "14619
                                                          2
                              3480
55
    \n",
             "\n",
             **
                     Price \n",
             "0
                    2380000 \n",
             "1
                     1400000 \n",
             "2
                    1200000 \n",
             "3
                    838000 \n",
             '' 4
                     805000 \n",
             "...
                             \n",
                         . . .
             "14615 221700 \n",
             "14616 219200 \n",
             "14617 209000 \n",
             "14618
                      205000 \n",
             "14619
                      146000 \n",
```

```
"\n",
           "[14620 rows x 23 columns]"
         "text/html": [
           "\n",
           " <div id=\"df-84b27f41-5fb8-4bbd-b2de-
b52cb88af53a\">\n",
               <div class=\"colab-df-container\">\n",
                < div > n",
           "<style scoped>\n",
               .dataframe tbody tr th:only-of-type {\n",
                  vertical-align: middle; \n",
           •
               }\n",
           "\n",
           "
               .dataframe thody tr th \{\n'',
           **
                  vertical-align: top; \n",
           "
               }\n",
           "\n",
           11
               .dataframe thead th \{ n'',
           "
                  text-align: right; \n",
           **
               }\n",
           "</style>\n",
           "\n",
             <thead>\n",
           "
               \n",
                 \n",
           "
                id\n",
           11
                Date\n",
           "
                number of bedrooms\n",
           "
                number of bathrooms\n",
           **
                living area\n",
           **
                lot area\n",
           •
                number of floors\n",
           "
                waterfront present\n",
           "
                number of views\n",
           11
                condition of the house\n",
           "
                \...\n",
           **
                Built Year\n",
                Renovation Year\n",
           "
                Postal Code\n",
           "
                Lattitude\n",
           11
                Longitude\n",
           **
                living area renov\n",
           "
                lot area renov\n",
                Number of schools nearby\n",
           11
                Distance from the airport\n",
                Price\n",
           **
               \n",
             </thead>\n",
           11
             \n",
               \n",
           **
                0\n",
                 6762810145\n",
                42491\n",
```

```
"
    5\n",
    2.50\n",
"
   3650\n",
    9050\n",
**
   2.0\n",
    0\n",
"
   4\n",
    5\n",
"
   \n",
   1921\n",
11
   0\n",
    122003\n",
"
    52.8645\n",
   -114.557\n",
"
   2880\n",
"
   5400\n",
"
   2\n",
   58\n",
"
    2380000\n",
"
  \n",
"
  <tr>\n",
"
   1\n",
**
   6762810635\n",
11
   42491\n",
"
   4\n",
   2.50\n",
"
   2920\n",
"
   4000\n",
"
    1.5\n",
"
   0\n",
   0\n",
**
   5\n",
"
    \n",
"
   1909\n",
"
   0\n",
11
   122004\n",
"
    52.8878\n",
"
   -114.470\n",
   2470\n",
"
   4000\n",
"
    2\n",
"
   51\n",
    1400000\n",
"
  \n",
  \n",
11
   2\n",
   6762810998\n",
11
   42491\n",
    5\n",
"
   2.75\n",
   2910\n",
11
   9480\n",
    1.5\n",
   0\n",
```

```
"
    0\n",
    3\n",
"
    \td>\\n"
    1939\n",
11
    0\n",
    122004\n",
"
    52.8852\n",
    -114.468\n",
"
    2940\n",
    6600\n",
11
    1\n",
    53\n",
"
    1200000\n",
"
   \n",
"
    \n''
"
    3\n",
"
    6762812605\n",
    42491\n",
"
    4\n",
"
    2.50\n",
"
    3310\n",
"
    42998\n",
**
    2.0\n",
**
    0\n",
"
    0\n",
    3\n",
"
    \...\n",
"
    2001\n",
"
    0\n",
"
    122005\n",
    52.9532\n",
**
    -114.321\n",
"
    3350\n",
"
    42847\n",
"
    3\n",
11
    76\n",
"
    838000\n",
"
   \n",
  \langle tr \rangle \backslash n'',
"
    4\n",
"
    6762812919\n",
"
    42491\n",
    3\n",
"
    2.00\n",
    2710\n",
11
    4500\n",
    1.5\n",
**
    0\n",
    0\n",
"
    4\n",
    \...\n",
    1929\n",
11
    0\n",
    122006\n",
```

```
"
    52.9047\n",
    -114.485\n",
"
    2060\n",
    4500\n",
**
    1\n",
    51\n",
"
    805000\n",
"
  \n",
"
  <tr>\n",
    ...\n",
11
    \n",
    \...\n",
**
    \...\n",
    \...\n",
"
    \...\n",
"
    \...\n",
"
    \n",
    \...\n"
"
    \...\n",
    \...\n",
"
    \...\n",
"
    \...\n",
    \n",
11
    \...\n",
"
    \...\n",
    \...\n"
"
    \...\n",
**
    \...\n",
"
    \...\n",
"
    \n",
    \n",
"
  \n",
**
  \n",
"
    14615\n",
    6762830250\n",
**
    42734\n",
**
    2\n",
"
    1.50\n",
    1556\n",
"
    20000\n",
"
    1.0\n",
11
    0\n",
    0\n",
"
    4\n",
    \n",
11
    1957\n",
    0\n",
11
    122066\n",
"
    52.6191\n",
"
    -114.472\n",
    2250\n",
11
    17286\n",
    3\n",
    76\n",
```

```
"
    221700\n",
  \n",
"
  <tr>\n",
    14616\n",
11
    6762830339\n",
    42734\n",
"
    3\n",
"
    2.00\n",
"
    1680\n",
    7000\n",
11
    1.5\n",
    0\n",
"
    0\n",
    4\n"
"
    \...\n",
11
    1968\n",
"
    0\n",
    122072\n",
"
    52.5075\n",
    -114.393\n",
"
    1540\n",
"
    7480\n",
**
    3\n",
11
    59\n",
"
    219200\n",
  \n",
"
   \n''
11
    14617\n",
"
    6762830618\n",
"
    42734\n",
    2\n",
"
    1.00\n",
"
    1070\n",
"
    6120\n",
    1.0\n",
11
    0\n",
"
    0\n",
"
    3\n",
    \...\n",
"
    1962\n",
"
    0\n",
"
    122056\n",
    52.7289\n",
"
    -114.507\n",
    1130\n",
"
    6120\n",
    2\n",
11
    64\n",
"
    209000\n",
•
  \n",
  \n",
11
    14618\n",
    6762830709\n",
    42734\n",
```

```
4\n",
              1.00\n",
          "
              1030\n",
              6621\n",
          **
              1.0\n",
              0\n",
          11
              0\n",
          "
              4\n",
          11
              \...\n",
              1955\n",
          11
              0\n",
              122042\n",
          •
              52.7157\n",
              -114.411\n",
          "
              1420\n",
          11
              6631\n",
          "
              3\n",
              54\n",
          •
              205000\n",
          "
             \n",
          "
             \n",
          "
              14619\n",
          **
              6762831463\n",
          **
              42734\n",
          "
              3\n",
              1.00\n",
          "
              900\n",
          "
              4770\n",
          "
              1.0\n",
          11
              0\n",
          **
              0\n",
          **
              3\n",
          •
              \...\n",
          "
              1969\n",
          "
              2009\n",
          11
              122018\n",
          **
              52.5338\n",
          **
              -114.552\n",
              900\n",
          "
              3480\n",
          "
              2\n",
          11
              55\n",
          "
              146000\n",
             \n",
           \n",
          "\n",
          "<p>14620 rows \times 23 columns</p>\n",
          "</div>\n",
              <button class=\"colab-df-convert\"</pre>
onclick=\"convertToInteractive('df-84b27f41-5fb8-4bbd-b2de-
b52cb88af53a')\"\n",
                    title=\"Convert this dataframe to an
interactive table.\"\n",
                    style=\"display:none;\">\n",
```

"

```
\n",
               " <svq xmlns=\"http://www.w3.org/2000/svg\"</pre>
height=\"24px\"viewBox=\"0 0 24 24\"\n",
                       width=\"24px\">\n",
               11
                    <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\n",
                    <path d=\"M18.56 5.441.94 2.06.94-2.06 2.06-</pre>
.94-2.06-.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06
2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-
2.06\ 2.06-.94-2.06-.94-.94-2.06-.94\ 2.06-2.06.94z\"/><path
d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0 2.83L4
21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-
2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47
1.35L5.41 20z''/>n''
                  </svq>\n",
               "
                      </button>\n",
                      \n",
                  <style>\n",
               "
                    .colab-df-container {\n",
               ••
                      display:flex; \n",
               "
                      flex-wrap:wrap; \n",
               "
                      gap: 12px; \n",
               **
                    }\n",
              "\n",
               "
                    .colab-df-convert {\n",
               "
                      background-color: #E8F0FE; \n",
               "
                      border: none; \n",
               11
                      border-radius: 50%; \n",
               "
                      cursor: pointer; \n",
               "
                      display: none; \n",
                      fill: #1967D2;\n",
               "
                      height: 32px; \n",
               "
                      padding: 0 0 0 0; \n",
                      width: 32px; \n",
               "
                    }\n",
              "\n",
                    .colab-df-convert:hover {\n",
                      background-color: #E2EBFA; \n",
                      box-shadow: Opx 1px 2px rgba(60, 64, 67,
0.3), Opx 1px 3px 1px rgba(60, 64, 67, 0.15); \n",
                      fill: #174EA6;\n",
                    }\n",
               "\n",
               "
                    [theme=dark] .colab-df-convert {\n",
                      background-color: #3B4455; \n",
               "
                      fill: #D2E3FC;\n",
               "
               "\n",
                    [theme=dark] .colab-df-convert:hover {\n",
               "
                      background-color: #434B5C; \n",
                      box-shadow: Opx 1px 3px 1px rgba(0, 0, 0,
0.15); n",
                      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3)); \n",
```

```
fill: #FFFFFF;\n",
                   }\n",
                </style>\n",
              "\n",
                     <script>\n",
                       const buttonEl =\n'',
                         document.querySelector('#df-84b27f41-
5fb8-4bbd-b2de-b52cb88af53a button.colab-df-convert'); \n",
                    buttonEl.style.display =\n",
                        google.colab.kernel.accessAllowed ?
'block' : 'none'; \n",
              "\n",
                       async function convertToInteractive(key)
\{ \n'',
                         const element =
document.querySelector('#df-84b27f41-5fb8-4bbd-b2de-
b52cb88af53a'); \n",
                         const dataTable =\n",
                           await
google.colab.kernel.invokeFunction('convertToInteractive', \n",
[key], {}); n",
                        if (!dataTable) return; \n",
              "\n",
                        const docLinkHtml = 'Like what you see?
Visit the ' +\n'',
              **
                          '<a target=\" blank\"</pre>
href=https://colab.research.google.com/notebooks/data table.ipynb>
data table notebook</a>'\n",
                         + ' to learn more about interactive
tables.';\n",
                        element.innerHTML = '';\n",
                         dataTable['output type'] =
'display data'; \n",
                         await
google.colab.output.renderOutput(dataTable, element); \n",
                         const docLink =
document.createElement('div'); \n",
                        docLink.innerHTML = docLinkHtml; \n",
              "
                         element.appendChild(docLink); \n",
                      }\n",
                   </script>\n",
              11
                 </div>\n",
              " </div>\n",
            ]
          } ,
          "metadata": {},
          "execution count": 60
      ]
    },
      "cell_type": "code",
```

```
"source": [
        "data = data.dropna()"
      "metadata": {
       "id": "OBfhwg6nvJOg"
      "execution count": null,
      "outputs": []
    },
      "cell type": "code",
      "source": [
       "data=data.fillna(data.mean())"
      "metadata": {
       "id": "gqZt-IeGvfcR"
      "execution count": null,
      "outputs": []
    },
      "cell type": "code",
      "source": [
       "import pandas as pd\n",
        "data=pd.read csv('home.csv') \n",
        "print(data.describe()) \n",
       "print(data.isna().sum())"
      ],
      "metadata": {
       "id": "nHoNAzqtvvEW",
        "outputId": "5aaf5819-19f2-42a2-aa4f-45f20985d900",
        "colab": {
          "base uri": "https://localhost:8080/"
        }
      "execution count": null,
      "outputs": [
          "output type": "stream",
          "name": "stdout",
          "text": [
                              id
                                          Date number of bedrooms
number of bathrooms \\\n",
            "count 1.462000e+04 14620.000000
                                                      14620.000000
14620.000000 \n",
            "mean 6.762821e+09 42604.538646
                                                          3.379343
2.129583
          \n",
            "std
                   6.237575e+03
                                   67.347991
                                                          0.938719
0.769934
           \n",
           "min 6.762810e+09 42491.000000
                                                          1.000000
0.500000
           \n",
           "25%
                   6.762815e+09 42546.000000
                                                          3.000000
1.750000 \n",
```

	" 50%	6.762821e+09	42600.000000	3.000000
2.250000	\n", "75%	6.762826e+09	42662.000000	4.000000
2.500000	\n", "max	6.762832e+09	42734.000000	33.000000
8.000000	\n", "\n",	0.762832e+09	42/34.000000	33.00000
	11	living area	lot area	number of floors
waterfront	"count	\\n", 14620.000000	1.462000e+04	14620.000000
14620.0000	00 \n", "mean	2098.262996	1.509328e+04	1.502360
0.007661	\n",	2090.202990	1.3093206104	1.302300
0.087193	"std	928.275721	3.791962e+04	0.540239
0.00/193	\n", "min	370.000000	5.200000e+02	1.000000
0.000000	\n", "25%	1440.000000	5.010750e+03	1.00000
0.000000	\n",			1.00000
0.000000	"50% \n",	1930.000000	7.620000e+03	1.500000
	" 75%	2570.000000	1.080000e+04	2.000000
0.000000	\n", "max	13540.000000	1.074218e+06	3.500000
1.000000	\n",	13340.00000	1.0742100100	3.30000
	"\n",	number of wie	ws condition	of the house
Built Year	\\\n",	number of vie	ws condition	of the house
14620.0000	"count 00 \n",	14620.0000	00	14620.000000
	"mean	0.2331	05	3.430506
1970.926402	2 \n", "std	0.7662	5.0	0.664151
29.493625	\n",	0.7002	3 9	0.664151
1900.00000	"min 0 \n",	0.0000	00	1.000000
	"25%	0.0000	00	3.000000
1951.00000	0 \n", "50%	0.0000	0.0	3.000000
1975.00000	0 \n",			
1997.00000	"75% 0 \n",	0.0000	00	4.000000
	"max	4.0000	00	5.000000
2015.00000	0 \n", "\n",			
	11	Renovation Ye	ar Postal C	Code Lattitude
Longitude	\\\n", "count	14620.0000	00 14620.000	14620.00000
14620.0000	00 \n",			
-114.40400	"mean 7 \n",	90.9240	08 122033.062	2244 52.792848
	"std	416.2166	61 19.082	2418 0.137522
0.141326	\n",			

```
0.000000 122003.000000
            "min
                                                       52.385900
-114.709000
             \n",
            "25%
                           0.000000 122017.000000
                                                       52.707600
            \n",
-114.519000
            "50%
                           0.000000 122032.000000
                                                       52.806400
-114.421000
            \n",
            "75%
                           0.000000 122048.000000
                                                       52.908900
-114.315000
            \n",
            "max
                        2015.000000 122072.000000
                                                       53.007600
-113.505000
            \n",
            "\n",
                    living area renov lot area renov
                                                       Number of
schools nearby \\n",
            "count
                         14620.000000
                                         14620.000000
14620.000000
             \n",
            "mean
                          1996.702257
                                         12753.500068
2.012244
           \n",
                           691.093366
                                         26058.414467
            "std
0.817284
           \n",
           "min
                          460.000000
                                           651.000000
1.000000
           \n",
                          1490.000000
                                          5097.750000
           "25%
1.000000
           \n",
            "50%
                          1850.000000
                                          7620.000000
2.000000
           \n",
            "75%
                          2380.000000
                                         10125.000000
           ∖n",
3.000000
            "max
                          6110.000000
                                        560617.000000
3.000000
           \n",
            "\n",
                    Distance from the airport
                                                             \n",
                                                      Price
                                                             \n",
            "count
                                 14620.000000 1.462000e+04
            "mean
                                    64.950958 5.389322e+05
                                                             \n",
            "std
                                     8.936008
                                              3.675324e+05
                                                             \n",
            "min
                                    50.000000 7.800000e+04 \n",
                                    57.000000 3.200000e+05 \n",
            "25%
            "50%
                                    65.000000 4.500000e+05 \n",
            "75%
                                    73.000000 6.450000e+05
                                                             \n",
            "max
                                    80.000000
                                              7.700000e+06 \n",
            "\n",
            "[8 rows x 23 columns]\n",
            "id
                                                      0\n",
            "Date
                                                      0\n",
            "number of bedrooms
                                                      0\n",
                                                      0\n",
            "number of bathrooms
            "living area
                                                      0\n",
            "lot area
                                                      0\n",
            "number of floors
                                                      0\n",
            "waterfront present
                                                      0\n",
            "number of views
                                                      0\n",
            "condition of the house
                                                      0\n",
                                                      0 \n'',
            "grade of the house
            "Area of the house (excluding basement)
                                                      0\n",
            "Area of the basement
                                                      0\n",
```

```
"Built Year
                                                    0\n",
        "Renovation Year
                                                    0 \n'',
        "Postal Code
                                                    0\n",
        "Lattitude
                                                    0\n",
                                                    0\n",
        "Longitude
                                                    0\n",
        "living area_renov
        "lot area renov
                                                    0\n",
        "Number of schools nearby
                                                    0\n",
        "Distance from the airport
                                                    0\n",
        "Price
                                                    0\n",
        "dtype: int64\n"
    }
  1
},
  "cell type": "code",
  "source": [
    "data = data.fillna(data.mean())"
  "metadata": {
   "id": "l1Se8BoBwdY8"
  "execution count": null,
  "outputs": []
},
  "cell_type": "code",
  "source": [
   "data=data.dropna()"
  "metadata": {
    "id": "-ALQDo1YxtJf"
  "execution count": null,
  "outputs": []
},
  "cell type": "code",
  "source": [
    "df.isna()"
  "metadata": {
    "id": "Ae-NSBslztn2",
    "outputId": "4590bebc-0496-49cb-d6ee-b69d40eefc8b",
    "colab": {
      "base uri": "https://localhost:8080/",
      "height": 540
    }
  } ,
  "execution count": null,
  "outputs": [
    {
      "output_type": "execute_result",
```

```
"data": {
          "text/plain": [
               id Date number of bedrooms number of
bathrooms living area \\\n",
          "O False False
                                       False
         False \n",
False
           "1
                 False False
                                        False
         False \n",
False
          "2
                 False False
                                       False
          False
                 \n",
False
          "3
                 False False
                                       False
          False \n'',
False
          "4
                 False False
                                        False
          False \n",
False
           "...
                 . . .
          ... \n",
           "14615 False False
                                       False
          False \n",
False
           "14616 False False
                                       False
          False \n'',
False
           "14617 False False
                                        False
          False \n",
False
           "14618 False False
                                       False
          False \n",
False
           "14619 False False
                                 False
False
          False \n",
           "\n",
                 lot area number of floors waterfront
present number of views \\\n",
           "0 False
                                   False
False
             False \n'',
           "1
                   False
                                  False
            False \n",
False
                    False
                                  False
             False \n",
False
           "3
                   False
                                  False
             False \n'',
False
           "4
                   False
                                   False
             False \n",
False
           "...
                     . . .
                                    . . .
             ... \n",
           "14615 False
                                  False
False
             False \n",
           "14616 False
                                  False
             False \n",
False
           "14617
                   False
                                   False
False
             False n'',
           "14618
                   False
                                   False
             False \n'',
False
           "14619
                    False
                                  False
             False \n",
False
           "\n",
                 condition of the house ... Built Year
Renovation Year Postal Code \\\n",
```

```
"()
                                   False ... False
False
           False
                  \n",
            "1
                                   False ... False
False
          False
                  \n",
            "2
                                   False ...
                                                 False
           False
                  \n",
False
            "3
                                   False ...
                                                  False
False
           False
                  \n",
            '' 4
                                   False ... False
False
           False
                  \n",
            "...
                                    . . .
                                         . . .
                                                  . . .
           ... \n",
            "14615
                                   False ...
                                                 False
False
           False \n'',
            "14616
                                   False ...
                                                 False
False
           False \n'',
            "14617
                                   False ... False
False
           False \n'',
            "14618
                                   False ...
                                                 False
False
           False \n'',
            "14619
                                   False ...
                                                 False
False
           False \n'',
            "\n",
                  Lattitude Longitude living_area_renov
lot area renov \\n",
            '' ()
                       False
                                False
                                                  False
False \n'',
            "1
                       False
                                False
                                                  False
       \n",
False
            "2
                       False
                                False
                                                  False
False
       \n",
            "3
                       False
                                False
                                                  False
       \n",
False
            '' 4
                       False
                                False
                                                  False
False
       \n",
                       . . .
                                  . . .
... \n",
            "14615
                       False
                                False
                                                  False
       \n",
False
            "14616
                       False
                                False
                                                  False
       \n",
False
            "14617
                       False
                                False
                                                  False
False
       \n",
            "14618
                      False
                                False
                                                  False
       \n",
False
            "14619
                       False
                                False
                                                  False
False
       \n",
            "\n",
                   Number of schools nearby Distance from the
airport Price \n",
            '' ()
                                    False
False False \n",
            "1
                                    False
False False \n",
```

```
"2
                                    False
False False
            \n'',
            "3
                                    False
            \n",
False False
                                    False
           \n",
False
     False
            "...
                                      . . .
      ... \n",
. . .
            "14615
                                    False
False
     False
            \n",
            "14616
                                    False
False
     False \n'',
            "14617
                                    False
False
     False
           \n",
            "14618
                                    False
False
     False
           \n",
            "14619
                                    False
False False \n",
            "\n",
            "[14620 rows x 23 columns]"
          ],
          "text/html": [
            "\n",
            " <div id=\"df-b4efcdc8-5207-4808-a99b-
3dcec19524a7\">\n",
               <div class=\"colab-df-container\">\n",
                  < div > n",
            "<style scoped>\n",
                 .dataframe tbody tr th:only-of-type {\n",
                    vertical-align: middle; \n",
            "
                }\n",
            "\n",
                 .dataframe thody tr th \{\n'',
            "
                    vertical-align: top; \n",
            "
                }\n",
            "\n",
                 .dataframe thead th \{\n'',
            **
                    text-align: right; \n",
                }\n",
            </style>\n",
            "\n",
               <thead>\n",
            **
                 \n",
            "
                  <th></th>\n",
            "
                  id\n",
            "
                  Date\n",
                  number of bedrooms\n",
                  number of bathrooms\n",
            **
            "
                  living area\n",
            •
                  lot area\n",
                  number of floors\n",
            **
                  waterfront present\n",
                  number of views\n",
                  condition of the house\n",
```

```
"
    \...\n",
    Built Year\n",
"
    Renovation Year\n",
    Postal Code\n",
**
    Lattitude\n",
    Longitude\n",
"
    living area renov\n",
"
    lot area renov\n",
"
    Number of schools nearby\n",
"
    Distance from the airport\n",
**
    Price\n",
   \n",
"
  </thead>\n",
"
  \n",
"
    \n'',
"
    0\n",
"
    False\n",
    False\n"
"
    False\n",
"
    False\n",
"
    False\n",
"
    False\n".
**
    False\n",
11
    False\n",
"
    False\n",
    False\n",
"
    \...\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    False\n"
"
    False\n"
"
    False\n",
11
    False\n",
"
    False\n",
"
   \n",
   <tr>\n",
"
    1\n",
"
    False\n",
11
    False\n"
    False\n",
"
    False\n",
    False\n",
11
    False\n",
    False\n",
11
    False\n",
    False\n",
"
    False\n",
    \td>\\n",
11
    False\n",
    False\n",
    False\n",
```

```
False\n",
    False\n"
"
    False\n",
    False\n",
**
    False\n",
    False\n",
"
    False\n",
"
  \n",
"
  <tr>\n",
    2\n",
11
    False\n",
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
    False\n"
"
    False\n",
    False\n",
"
    \...\n",
"
    False\n"
    False\n",
11
    False\n",
"
    False\n"
    False\n"
"
    False\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
  \n",
"
  <tr>\n",
    3\n",
    False\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    False\n"
11
    False\n"
    False\n",
"
    False\n",
    \...\n",
11
    False\n",
    False\n",
11
    False\n",
    False\n"
"
    False\n"
    False\n",
11
    False\n",
    False\n",
    False\n",
```

```
"
    False\n",
   \n",
"
   <tr>\n",
    4\n",
**
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
    False\n"
11
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    \...\n",
"
    False\n",
"
    False\n",
    False\n"
"
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
**
    False\n",
11
    False\n",
"
    False\n",
"

n",
"
   <tr>\n",
11
    ...\n",
"
    \...\n",
"
    \n",
    \...\n",
"
    \...\n",
"
    \...\n",
"
    \...\n"
    \...\n",
11
    \...\n",
"
    \...\n",
"
    \n",
    \...\n",
"
    \...\n",
"
    \...\n",
11
    \...\n"
    \...\n",
"
    \...\n",
"
    \...\n",
11
    \...\n",
    \...\n",
11
    \...\n",
"
    \...\n",
"
   \n",
   \n",
11
    14615\n",
    False\n",
    False\n",
```

```
"
    False\n",
    False\n"
"
    False\n",
    False\n",
**
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    \...\n",
    False\n"
11
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
    False\n"
"
    False\n",
"

n",
"
   <tr>\n",
"
    14616\n",
    False\n",
11
    False\n",
"
    False\n"
    False\n"
"
    False\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    \...\n",
"
    False\n"
    False\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    False\n"
11
    False\n"
    False\n",
"
   \n",
   <tr>\n",
11
    14617\n",
    False\n",
11
    False\n",
    False\n"
"
    False\n"
    False\n",
11
    False\n",
    False\n",
    False\n",
```

```
"
    False\n",
    False\n",
"
    \...\n",
    False\n",
**
    False\n",
    False\n",
"
    False\n",
"
    False\n",
"
    False\n",
    False\n"
11
    False\n",
    False\n",
"
    False\n",
"
   \n",
"
    \n''
"
    14618\n",
"
    False\n",
    False\n"
"
    False\n",
"
    False\n",
"
    False\n",
"
    False\n".
**
    False\n",
11
    False\n",
"
    False\n",
    False\n",
"
    \...\n",
11
    False\n",
"
    False\n",
"
    False\n",
    False\n",
"
    False\n",
"
    False\n"
"
    False\n"
    False\n",
11
    False\n",
"
    False\n",
"
   \n",
    n",
"
    14619\n",
"
    False\n",
11
    False\n"
    False\n",
"
    False\n",
    False\n",
11
    False\n",
    False\n",
11
    False\n",
    False\n"
"
    False\n",
    \td>\\n",
11
    False\n",
    False\n",
    False\n",
```

```
"
                     False\n",
                     False\n"
              "
                     False\n",
                     False\n",
              **
                     False\n",
                     False\n",
              **
                     False\n",
                   \n",
                \n",
              "\n",
              "<p>14620 rows \times 23 columns</p>\n",
              "</div>\n",
                     <button class=\"colab-df-convert\"</pre>
onclick=\"convertToInteractive('df-b4efcdc8-5207-4808-a99b-
3dcec19524a7')\"\n",
                             title=\"Convert this dataframe to an
interactive table.\"\n",
                             style=\"display:none;\">\n",
                       \n",
                <svg xmlns=\"http://www.w3.org/2000/svg\"</pre>
height=\"24px\"viewBox=\"0 0 24 24\"\n",
                      width=\"24px\">\n",
                   <path d=\"MO \ Oh24v24HOV0z\" fill=\"none\"/>\n",
                   <path d=\"M18.56 5.441.94 2.06.94-2.06 2.06-</pre>
.94-2.06-.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06
2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-
2.06\ 2.06-.94-2.06-.94-.94-2.06-.94\ 2.06-2.06.94z"/><path
d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-1.04.2-
1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0 2.83L4
21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-
2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47
1.35L5.41 20z''/>n''
                 </svq>\n",
                     </button>\n",
                     \n'',
                 <style>\n",
                   .colab-df-container {\n",
              "
                     display:flex; \n",
                     flex-wrap:wrap; \n",
              "
                     gap: 12px; \n",
              "
                   }\n",
              "\n",
                   .colab-df-convert {\n",
              "
                     background-color: #E8F0FE; \n",
                     border: none; \n",
              11
                     border-radius: 50%; \n",
                     cursor: pointer; \n",
              11
                     display: none; \n",
                     fill: #1967D2;\n",
              "
                     height: 32px; \n",
                     padding: 0 0 0 0;\n",
                     width: 32px; \n",
                   }\n",
              "\n",
```

```
.colab-df-convert:hover {\n",
                     background-color: #E2EBFA; \n",
                    box-shadow: Opx 1px 2px rgba(60, 64, 67,
0.3), 0px 1px 3px 1px rgba(60, 64, 67, 0.15); \n",
                     fill: #174EA6;\n",
                   }\n",
              "\n",
                   [theme=dark] .colab-df-convert {\n",
              **
                     background-color: #3B4455; \n",
              11
                     fill: #D2E3FC;\n",
              **
                   }\n",
              "\n",
                   [theme=dark] .colab-df-convert:hover {\n",
                     background-color: #434B5C; \n",
                     box-shadow: Opx 1px 3px 1px rgba(0, 0, 0,
0.15); n",
                     filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3)); \n",
                    fill: #FFFFFF;\n",
                   }\n",
              " </style>\n",
              "\n",
                     <script>\n",
              **
                       const buttonEl =\n'',
                         document.querySelector('#df-b4efcdc8-
5207-4808-a99b-3dcec19524a7 button.colab-df-convert'); \n",
                  buttonEl.style.display =\n",
                        google.colab.kernel.accessAllowed ?
'block' : 'none'; \n",
              "\n",
                       async function convertToInteractive(key)
\{ \n'',
                         const element =
document.querySelector('#df-b4efcdc8-5207-4808-a99b-
3dcec19524a7'); \n",
                         const dataTable =\n",
                           await
google.colab.kernel.invokeFunction('convertToInteractive', \n",
[key], {}); n",
                        if (!dataTable) return; \n",
              "\n",
                        const docLinkHtml = 'Like what you see?
Visit the ' + n",
                           '<a target=\" blank\"</pre>
href=https://colab.research.google.com/notebooks/data table.ipynb>
data table notebook</a>'\n",
                           + ' to learn more about interactive
tables.'; \n",
                        element.innerHTML = '';\n",
                         dataTable['output type'] =
'display_data';\n",
google.colab.output.renderOutput(dataTable, element); \n",
```

```
const docLink =
document.createElement('div'); \n",
              "
                         docLink.innerHTML = docLinkHtml; \n",
                         element.appendChild(docLink); \n",
              "
                      }\n",
                     </script>\n",
                  </div>\n",
              " </div>\n",
            ]
          },
          "metadata": {},
          "execution count": 77
     ]
  }
 ]
```