```
{
 "nbformat": 4,
 "nbformat_minor": 0,
 "metadata": {
  "colab": {
   "provenance": []
  },
  "kernelspec": {
   "name": "python3",
   "display_name": "Python 3"
  },
  "language_info": {
   "name": "python"
  }
},
 "cells": [
  {
   "cell_type": "markdown",
   "source": [
    "# SALES PREDICTION\n",
    "\n",
    ">Sales prediction involves forecasting the amount of a product that\n",
    ">customers will purchase, taking into account various factors such as\n",
    ">advertising expenditure, target audience segmentation, and \n",
    ">advertising platform selection."
   ],
   "metadata": {
    "id": "Anoaq3ENWp61"
   }
```

```
},
{
 "cell_type": "markdown",
 "source": [
  "IMPORTING IMPORTANT LIBRARIES"
],
"metadata": {
  "id": "EaTrrCP7W3ht"
}
},
{
"cell_type": "code",
 "execution_count": 7,
 "metadata": {
  "id": "PxHL5IcCWgu_"
},
 "outputs": [],
 "source": [
  "import numpy as np\n",
  "import pandas as pd\n",
  "import matplotlib.pyplot as plt\n",
  "import seaborn as sns"
]
},
{
 "cell_type": "markdown",
 "source": [
  "LOADING THE DATASET"
],
```

```
"metadata": {
  "id": "10YC9EeaXHII"
}
},
{
 "cell_type": "code",
 "source": [
  "df = pd.read_csv(\"/content/advertising.csv\")\n",
  "df.head()"
],
 "metadata": {
  "colab": {
   "base_uri": "https://localhost:8080/",
   "height": 206
  },
  "id": "bW5BtmCoXD9H",
  "outputId": "796fd3bf-cfb4-4d4d-de6c-60e77d41232d"
},
 "execution_count": 8,
 "outputs": [
  {
   "output_type": "execute_result",
   "data": {
    "text/plain": [
     " TV Radio Newspaper Sales\n",
     "0 230.1 37.8 69.2 22.1\n",
     "1 44.5 39.3 45.1 10.4\n",
     "2 17.2 45.9 69.3 12.0\n",
     "3 151.5 41.3 58.5 16.5\n",
```

```
"4 180.8 10.8 58.4 17.9"
],
"text/html": [
"\n",
" <div id=\"df-06e4a93c-de20-4d73-854b-78f17dba1bff\" 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 tbody 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",
" TV\n",
" Radio\n",
" Newspaper\n",
" Sales\n",
" \n",
" </thead>\n",
```

```
" \n",
```

- " \n",
- " 0\n",
- " 230.1\n",
- " 37.8\n",
- " 69.2\n",
- " 22.1\n",
- " \n",
- " \n",
- " 1\n",
- " 44.5\n",
- " 39.3\n",
- " 45.1\n",
- " 10.4\n",
- " \n",
- " \n",
- " 2\n",
- " 17.2\n",
- " 45.9\n",
- " 69.3\n",
- " 12.0\n",
- " \n",
- " \n",
- " 3\n",
- " 151.5\n",
- " 41.3\n",
- " 58.5\n",
- " 16.5\n",
- " \n",

```
" \n",
      " 4\n",
      " 180.8\n",
      " 10.8\n",
      " 58.4\n",
      " 17.9\n",
      " \n",
      " \n",
      "\n",
      "</div>\n",
      " <div class=\"colab-df-buttons\">\n",
      "\n",
      " <div class=\"colab-df-container\">\n",
      " <button class=\"colab-df-convert\" onclick=\"convertToInteractive('df-06e4a93c-de20-4d73-
854b-78f17dba1bff')\"\n",
            title=\"Convert this dataframe to an interactive table.\"\n",
            style=\"display:none;\">\n",
      "\n",
      " <svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\" viewBox=\"0 -960 960
960\">\n",
      " <path d=\"M120-120v-720h720v720H120Zm60-500h600v-160H180v160Zm220 220h160v-
160H400v160Zm0 220h160v-160H400v160ZM180-400h160v-160H180v160Zm440 0h160v-
160H620v160ZM180-180h160v-160H180v160Zm440 0h160v-160H620v160Z\"/>\n",
      " </svg>\n",
      " </button>\n",
      "\n",
      " <style>\n",
      " .colab-df-container {\n",
      " display:flex;\n",
      " gap: 12px;\n",
```

```
" }\n",
"\n",
" .colab-df-convert {\n",
    background-color: #E8F0FE;\n",
    border: none;\n",
    border-radius: 50%;\n",
    cursor: pointer;\n",
п
    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: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px rgba(60, 64, 67, 0.15);\n",
    fill: #174EA6;\n",
" }\n",
"\n",
" .colab-df-buttons div {\n",
" margin-bottom: 4px;\n",
" }\n",
"\n",
" [theme=dark] .colab-df-convert {\n",
  background-color: #3B4455;\n",
" fill: #D2E3FC;\n",
" }\n",
"\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",
       " }\n",
       " </style>\n",
       "\n",
       " <script>\n",
          const buttonEl =\n",
            document.guerySelector('#df-06e4a93c-de20-4d73-854b-78f17dba1bff 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-06e4a93c-de20-4d73-854b-
78f17dba1bff');\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\"
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",
```

[theme=dark].colab-df-convert:hover {\n",

```
const docLink = document.createElement('div');\n",
            docLink.innerHTML = docLinkHtml;\n",
            element.appendChild(docLink);\n",
         }\n",
       " </script>\n",
       " </div>\n",
       "\n",
       "\n",
       "<div id=\"df-e5caa507-b295-42ee-a869-56f851e20f44\">\n",
       " <button class=\"colab-df-quickchart\" onclick=\"quickchart('df-e5caa507-b295-42ee-a869-
56f851e20f44')\"\n",
              title=\"Suggest charts.\"\n",
              style=\"display:none;\">\n",
       "\n",
       "<svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\"viewBox=\"0 0 24 24\"\n",
       " width=\"24px\">\n",
       " <g>\n",
            <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2 2h14c1.1 0 2-.9 2-2V5c0-1.1-.9-2-2-</p>
2zM9 17H7v-7h2v7zm4 0h-2V7h2v10zm4 0h-2v-4h2v4z\"/>\n",
       " </g>\n",
       "</svg>\n",
       " </button>\n",
       "\n",
       "<style>n",
       " .colab-df-quickchart {\n",
          --bg-color: #E8F0FE;\n",
         --fill-color: #1967D2;\n",
       " --hover-bg-color: #E2EBFA;\n",
       " --hover-fill-color: #174EA6;\n",
```

```
--disabled-fill-color: #AAA;\n",
" --disabled-bg-color: #DDD;\n",
" }\n",
"\n",
" [theme=dark] .colab-df-quickchart {\n",
    --bg-color: #3B4455;\n",
  --fill-color: #D2E3FC;\n",
  --hover-bg-color: #434B5C;\n",
  --hover-fill-color: #FFFFFF;\n",
  --disabled-bg-color: #3B4455;\n",
   --disabled-fill-color: #666;\n",
" }\n",
"\n",
" .colab-df-quickchart {\n",
   background-color: var(--bg-color);\n",
   border: none;\n",
" border-radius: 50%;\n",
" cursor: pointer;\n",
" display: none;\n",
" fill: var(--fill-color);\n",
" height: 32px;\n",
" padding: 0;\n",
" width: 32px;\n",
" }\n",
"\n",
" .colab-df-quickchart:hover {\n",
background-color: var(--hover-bg-color);\n",
   box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px 1px rgba(60, 64, 67, 0.15);\n",
" fill: var(--button-hover-fill-color);\n",
```

```
" }\n",
"\n",
" .colab-df-quickchart-complete:disabled,\n",
" .colab-df-quickchart-complete:disabled:hover {\n",
background-color: var(--disabled-bg-color);\n",
" fill: var(--disabled-fill-color);\n",
" box-shadow: none;\n",
" }\n",
"\n",
" .colab-df-spinner {\n",
border: 2px solid var(--fill-color);\n",
border-color: transparent;\n",
" border-bottom-color: var(--fill-color);\n",
" animation:\n",
    spin 1s steps(1) infinite;\n",
" }\n",
"\n",
" @keyframes spin {\n",
" 0% {\n",
  border-color: transparent;\n",
  border-bottom-color: var(--fill-color);\n",
    border-left-color: var(--fill-color);\n",
п
  }\n",
   20% {\n",
    border-color: transparent;\n",
    border-left-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
   }\n",
   30% {\n",
```

```
border-color: transparent;\n",
    border-left-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
    border-right-color: var(--fill-color);\n",
   }\n",
   40% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
   }\n",
   60% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
   }\n",
   80% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
    border-bottom-color: var(--fill-color);\n",
   }\n",
   90% {\n",
   border-color: transparent;\n",
    border-bottom-color: var(--fill-color);\n",
" }\n",
" }\n",
"</style>\n",
"\n",
" <script>\n",
   async function quickchart(key) {\n",
    const quickchartButtonEl =\n",
```

```
document.querySelector('#' + key + ' button');\n",
  II
      quickchartButtonEl.disabled = true; // To prevent multiple clicks.\n",
      quickchartButtonEl.classList.add('colab-df-spinner');\n",
      try {\n",
       const charts = await google.colab.kernel.invokeFunction(\n",
  11
          'suggestCharts', [key], {});\n",
      } catch (error) {\n",
  11
       console.error('Error during call to suggestCharts:', error);\n",
  п
      }\n",
      quickchartButtonEl.classList.remove('colab-df-spinner');\n",
      quickchartButtonEl.classList.add('colab-df-quickchart-complete');\n",
     }\n",
     (() => {\n''},
      let quickchartButtonEl =\n",
       document.querySelector('#df-e5caa507-b295-42ee-a869-56f851e20f44 button');\n",
      quickchartButtonEl.style.display =\n",
       google.colab.kernel.accessAllowed?'block': 'none';\n",
  " })();\n",
  " </script>\n",
  "</div>\n",
  " </div>\n",
  " </div>\n"
]
},
"metadata": {},
"execution_count": 8
```

}

]

},

```
{
 "cell_type": "code",
 "source": [
  "df.shape"
],
 "metadata": {
  "colab": {
   "base_uri": "https://localhost:8080/"
  },
  "id": "nCFpnkznYzjD",
  "outputId": "53a861f8-76cb-433a-e227-bd2ed6103720"
},
 "execution_count": 9,
 "outputs": [
  {
   "output_type": "execute_result",
   "data": {
    "text/plain": [
     "(200, 4)"
    ]
   },
   "metadata": {},
   "execution_count": 9
  }
]
},
{
 "cell_type": "code",
 "source": [
```

```
"df.describe()"
],
"metadata": {
 "colab": {
  "base_uri": "https://localhost:8080/",
 "height": 300
 },
 "id": "yy560mxWXUuL",
 "outputId": "0bb91614-139b-4143-b101-11ca7425e926"
},
"execution_count": 10,
"outputs": [
 {
  "output_type": "execute_result",
  "data": {
   "text/plain": [
            TV
                  Radio Newspaper
                                      Sales\n",
    "count 200.000000 200.000000 200.000000 200.000000\n",
    "mean 147.042500 23.264000 30.554000 15.130500\n",
    "std 85.854236 14.846809 21.778621 5.283892\n",
    "min 0.700000 0.000000 0.300000 1.600000\n",
    "25% 74.375000 9.975000 12.750000 11.000000\n",
    "50% 149.750000 22.900000 25.750000 16.000000\n",
    "75% 218.825000 36.525000 45.100000 19.050000\n",
    "max 296.400000 49.600000 114.000000 27.000000"
   ],
   "text/html": [
    "\n",
    " <div id=\"df-08dad05a-fc03-4156-a921-40949d299ab2\" 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",
" \n",
" <th>TV\n",
" <th>Radio\n",
" Newspaper\n",
" <th>Sales\n",
" \n",
" </thead>\n",
" <tbody>\n",
" \n",
" <th>count\n",
" 200.000000\n",
" 200.000000\n",
```

```
" 200.000000\n",
```

- " 200.000000\n",
- " \n",
- " \n",
- " <th>mean\n",
- " 147.042500\n",
- " 23.264000\n",
- " 30.554000\n",
- " 15.130500\n",
- " \n",
- " \n",
- " <th>std\n",
- " 85.854236\n",
- " 14.846809\n",
- " 21.778621\n",
- " 5.283892\n",
- " \n",
- " \n",
- " <th>min\n",
- " 0.700000\n",
- " 0.000000\n",
- " $0.300000 \n$ ",
- " 1.600000\n",
- " \n",
- " \n",
- " 25%\n",
- " 74.375000\n",
- " 9.975000\n",
- " 12.750000\n",

```
" 11.000000 \n",
" \n",
" \n",
" 50%\n",
" 149.750000\n",
" 22.900000\n",
" 25.750000\n",
" 16.000000\n",
" \n",
" \n",
" 75%\n",
" 218.825000\n",
" 36.525000\n",
" 45.100000\n",
" 19.050000\n",
" \n",
" \n",
" <th>max\n",
" 296.400000\n",
" 49.600000\n",
" 114.000000\n",
" 27.000000\n",
" \n",
" \n",
"\n",
"</div>\n",
" <div class=\"colab-df-buttons\">\n",
"\n",
" <div class=\"colab-df-container\">\n",
```

```
" <button class=\"colab-df-convert\" onclick=\"convertToInteractive('df-08dad05a-fc03-4156-
a921-40949d299ab2')\"\n",
              title=\"Convert this dataframe to an interactive table.\"\n",
              style=\"display:none;\">\n",
       "\n",
       " <svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\" viewBox=\"0 -960 960
960\">\n",
       " <path d=\"M120-120v-720h720v720H120Zm60-500h600v-160H180v160Zm220 220h160v-
160H400v160Zm0 220h160v-160H400v160ZM180-400h160v-160H180v160Zm440 0h160v-
160H620v160ZM180-180h160v-160H180v160Zm440 0h160v-160H620v160Z\"/>\n",
       " </svg>\n",
       " </button>\n",
       "\n",
       " <style>\n",
       " .colab-df-container {\n",
       " display:flex;\n",
       " gap: 12px;\n",
       " }\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",
           padding: 0 0 0 0;\n",
         width: 32px;\n",
       " }\n",
```

```
"\n",
       " .colab-df-convert:hover {\n",
         background-color: #E2EBFA;\n",
         box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px rgba(60, 64, 67, 0.15);\n",
       " fill: #174EA6;\n",
       " }\n",
       "\n",
       " .colab-df-buttons div {\n",
         margin-bottom: 4px;\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",
       " }\n",
       " </style>\n",
       "\n",
       " <script>\n",
       " const buttonEl =\n",
            document.querySelector('#df-08dad05a-fc03-4156-a921-40949d299ab2 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-08dad05a-fc03-4156-a921-
40949d299ab2');\n",
            const dataTable =\n",
             await google.colab.kernel.invokeFunction('convertToInteractive',\n",
       11
                                     [key], {});\n",
            if (!dataTable) return;\n",
       "\n",
            const docLinkHtml = 'Like what you see? Visit the ' +\n",
              '<a target=\" blank\"
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",
       п
             dataTable['output type'] = 'display data';\n",
             await google.colab.output.renderOutput(dataTable, element);\n",
       п
             const docLink = document.createElement('div');\n",
       п
            docLink.innerHTML = docLinkHtml;\n",
       11
            element.appendChild(docLink);\n",
           }\n",
       " </script>\n",
       " </div>\n",
       "\n",
       "\n",
       "<div id=\"df-677aa786-950a-41f7-bb23-566e62ec71e2\">\n",
       " <button class=\"colab-df-quickchart\" onclick=\"quickchart('df-677aa786-950a-41f7-bb23-
566e62ec71e2')\"\n",
              title=\"Suggest charts.\"\n",
              style=\"display:none;\">\n",
```

```
"\n",
       "<svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\"viewBox=\"0 0 24 24\"\n",
       " width=\"24px\">\n",
       " <g>\n",
            <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2 2h14c1.1 0 2-.9 2-2V5c0-1.1-.9-2-2-</pre>
2zM9 17H7v-7h2v7zm4 0h-2V7h2v10zm4 0h-2v-4h2v4z\"/>\n",
       " </g>\n",
       "</svg>\n",
       " </button>\n",
       "\n",
       "<style>n",
       " .colab-df-quickchart {\n",
          --bg-color: #E8F0FE;\n",
       " --fill-color: #1967D2;\n",
       " --hover-bg-color: #E2EBFA;\n",
         --hover-fill-color: #174EA6;\n",
          --disabled-fill-color: #AAA;\n",
          --disabled-bg-color: #DDD;\n",
       " }\n",
       "\n",
       " [theme=dark] .colab-df-quickchart {\n",
           --bg-color: #3B4455;\n",
          --fill-color: #D2E3FC;\n",
           --hover-bg-color: #434B5C;\n",
          --hover-fill-color: #FFFFFF;\n",
          --disabled-bg-color: #3B4455;\n",
       " --disabled-fill-color: #666;\n",
       " }\n",
       "\n",
```

```
" .colab-df-quickchart {\n",
   background-color: var(--bg-color);\n",
   border: none;\n",
" border-radius: 50%;\n",
" cursor: pointer;\n",
" display: none;\n",
" fill: var(--fill-color);\n",
" height: 32px;\n",
" padding: 0;\n",
" width: 32px;\n",
" }\n",
"\n",
" .colab-df-quickchart:hover {\n",
background-color: var(--hover-bg-color);\n",
box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px 1px rgba(60, 64, 67, 0.15);\n",
" fill: var(--button-hover-fill-color);\n",
" }\n",
"\n",
" .colab-df-quickchart-complete:disabled,\n",
".colab-df-quickchart-complete:disabled:hover {\n",
background-color: var(--disabled-bg-color);\n",
" fill: var(--disabled-fill-color);\n",
box-shadow: none;\n",
" }\n",
"\n",
" .colab-df-spinner {\n",
border: 2px solid var(--fill-color);\n",
   border-color: transparent;\n",
   border-bottom-color: var(--fill-color);\n",
```

```
animation:\n",
    spin 1s steps(1) infinite;\n",
" }\n",
"\n",
" @keyframes spin {\n",
" 0% {\n",
    border-color: transparent;\n",
    border-bottom-color: var(--fill-color);\n",
    border-left-color: var(--fill-color);\n",
   }\n",
   20% {\n",
    border-color: transparent;\n",
    border-left-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
   }\n",
   30% {\n",
    border-color: transparent;\n",
    border-left-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
    border-right-color: var(--fill-color);\n",
   }\n",
   40% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
    border-top-color: var(--fill-color);\n",
   }\n",
   60% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
```

```
" }\n",
   80% {\n",
    border-color: transparent;\n",
    border-right-color: var(--fill-color);\n",
    border-bottom-color: var(--fill-color);\n",
" }\n",
" 90% {\n",
   border-color: transparent;\n",
    border-bottom-color: var(--fill-color);\n",
" }\n",
" }\n",
</style>\n",
"\n",
" <script>\n",
   async function quickchart(key) {\n",
    const quickchartButtonEl =\n",
     document.querySelector('#' + key + ' button');\n",
    quickchartButtonEl.disabled = true; // To prevent multiple clicks.\n",
    quickchartButtonEl.classList.add('colab-df-spinner');\n",
    try {\n",}
     const charts = await google.colab.kernel.invokeFunction(\n",
        'suggestCharts', [key], {});\n",
"
    } catch (error) {\n",
     console.error('Error during call to suggestCharts:', error);\n",
    }\n",
    quickchartButtonEl.classList.remove('colab-df-spinner');\n",
    quickchartButtonEl.classList.add('colab-df-quickchart-complete');\n",
   }\n",
" (() => {\n",
```

```
let quickchartButtonEl =\n",
          document.querySelector('#df-677aa786-950a-41f7-bb23-566e62ec71e2 button');\n",
         quickchartButtonEl.style.display =\n",
          google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
     " })();\n",
     " </script>\n",
     "</div>\n",
     " </div>\n",
     " </div>\n"
    ]
   },
   "metadata": {},
   "execution_count": 10
  }
]
},
{
"cell_type": "markdown",
 "source": [
  "\n",
  "**Basic Observation**\n",
  "\n",
  "---\n",
  "Avg expense spend is highest on TV\n",
  "\n",
  "\n",
  "Avg expense spend is lowest on Radio\n",
  "\n",
  "\n",
```

```
"Max sale is 27 and min is 1.6\n",
  "\n",
  "\n",
  "\n",
  "\n",
  "\n"
],
 "metadata": {
  "id": "YfUIQ8j_ZKas"
}
},
{
 "cell_type": "code",
 "source": [
  "sns.pairplot(df, x_vars=['TV', 'Radio','Newspaper'], y_vars='Sales', kind='scatter')\n",
  "plt.show()\n"
],
 "metadata": {
  "colab": {
   "base_uri": "https://localhost:8080/",
   "height": 268
  },
  "id": "CoHHKCzNbCBz",
  "outputId": "ef945815-7458-453c-f7af-478e8cf70cf7"
},
 "execution_count": 11,
 "outputs": [
   "output_type": "display_data",
```

```
"data": {

"text/plain": [

"<Figure size 750x250 with 3 Axes>"

],
```

"image/png":

"iVBORw0KGgoAAAANSUhEUgAAAuUAAAD7CAYAAADNeeo8AAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90 bGliIHZlcnNpb24zLjcuMSwgaHR0cHM6Ly9tYXRwbG90bGliLm9yZy/bCgiHAAAACXBIWXMAAA9hAAAPYQ GoP6dpAACVoklEQVR4nO29eXxTVf7//0qzNE1LF1rKom0ppMoORRahLSAylgIDyOilfD7TAupnBuoy6iioyOal v4ziIOp8PiObv6/ijAug6DijIFtRFChL2aRIKUghtDTpkiZpk/v7o9zLTXK37En7fj4ePB40uUnOPfe8z3mf93kvKoZ hGBAEQRAEQRAEETZiwt0AgiAlgiAlgujokFJOEARBEARBEGGGIHKCIAiCIAiCCDOklBMEQRAEQRBEmCGInCAI giAlgiDCDCnlBEEQBEEQBBFmSCknCllgCllgiDBDSjlBEARBEARBhJl2r5QzDlP6+npQjSSCiCxlNgkiMiHZJljw00 6V8oaGBiQlJaGhoSHcTSElggfJJkFEJiSbBBEe2r1SThAEQRAEQRCRDinlBEEQBEEQBBFmSCknCllgCllgiDCjCXc DCIIILGaLHTWNdtRbW5AYp0VavA5JBI24m0UQhEJIhqMXenaEP5BSThDtilumZjz98RHsPl3DvTYmJw0vzRyE HslxYWwZQRBKIBmOXujZEf5C7isE0U4wW+weCwIA7Dpdg4UfH4HZYg9TywiCUALJcPRCz44IBKSUE0Q7oab R7rEgsOw6XYOaRloUCCKSIRmOXujZEYGAlHKCaCfUW1sk32+QeZ8giPBCMhy90LMjAgEp5QTRTkjUayXf7yT zPkEQ4YVkOHqhZ0cEAlLKCaKdkJagw5icNMH3xuSklS1BB7PFjorqRpRW1qHiSiP5ORKEjwRDlpTIMBGZtMd nR+tF6FExDMOEuxHBpL6+HklJSTCbzUhMTAx3cwgiqFw0NWPhx0ewvv36/5WZg+AEliozAMkmEa0EM8uG mAy/PHMQuodITkk2fSMSnl2goEwy4YGUcoJoZ7B5chusLeik13IWmuKNpYKBSGNy0vDGrNyQ59Il2SSiEbPF HnRZEpLhUMonyabvhPvZBYJQiHFCGMpTThDtjCSD5yJQUd0omxmAJlmCkEdJlg1/ZUllhonooD08u1CMcUl Y8ikniA4AZQYgiMBAskS0d2iMhw+vIBNEmPC3HLPSz5stdsRp1Xhr9lDotWocrKzD2i1nYbE7uGsoMwBBSGO 22FHdYEOrg8HaouGCcgQAep0aZot/lsRoL9Ue7e0PJN72RSj6Tu43KJNM+CClnCDCgL9BNEo/L3RdnjEVq2bl4 pGNpbDYHcg3pkKvpUMzghDjoqkZT390BLvLxeWlfW3rkSocuWDyOSAu2gPsor39gcTbvghF3yn5DTaTzC4Rn /JozCQTLYR1JV65ciWGDx+OTp06IT09HdOnT8epU6dcrhk3bhxUKpXLv9/+9rdhajFB+I+/5ZiVfl7supLyWqwr OYu5+dnIM6aiKC8bSz89RumuCEIAs8XuoZADrnIEtCnkc/KysXbPWZ9Lq0d7qfZob38g8bYvQtF3Sn8jyaDDSz MHeaR4ZDPJdNRTj1AQVkv5zp07sWDBAgwfPhytra145plncMcdd+D48eOlj4/nrnvwwQexfPly7m+DwRCO5 hJEQPA3iEbp56WuKymvxcJJfQCAs/RR8A5BeFLTaPdQyFlKymvx9J19MLF/V/z72GUXq7kvAXHRHmAX7e0PJ N72RSj6zpvf6JEchzdm5UZ9JploI6xK+Zdffuny9/r165Geno4DBw5gzJgx3OsGgwHdunULdfMllij4G0Sj9PNy1 1242ozV28sV/y5BdETk5OinumYAcJEIFm9lKtoD7KK9/YHE274IRd95+xvtIZNMtBFRjqRmsxkA0LlzZ5fX33vvP aSlpWHAgAFYtGgRLBZLOJpHEB74UvHM3yAapZ+Xuy5W4yr+FLxDEJ4okSN3WWLxVqaiOcCOH1C+tmg4isc bYdCpXa6J5PYHGm+fZSiefTSPr45CxAR6Op1OPPbYY8jLy8OAAQO41++//35kZWWhR48eOHLkCJ5++mmcO nUKn3zyieD32Gw22Gw27u/6+vggt53omPgalONvEI3Sz0tdl2dMRekFk1e/6y8km0Q0lidH1fVW/Gy2erzni0 ylJehQkJMm6GJQEEQZ9Vc2lQSUd7QAQW/n+VAEV1IAZ+QTMZbyBQsWoKysDB988IHL6w899BAmTpylgQ MHYvbs2Xj33XexadMmVFRUCH7PypUrkZSUxP3LyMgIRfOJDoY/QTn+BtEo/XySQYcXZwxEgdt1+byANG9+1 19INolIRerEi5U3dznKM6bi4fE5yDem4VSVqxLrjOwtuM2IPGOqx28tuM3o9XcpxR/ZVBJQ3hEDBL2d55Ve78 vprK9tlkKPimEYJtyNKC4uxpYtW7Br1y5kZ2dLXtvU1ISEhAR8+eWXmDhxosf7Qjv+jlwMKhdMBJSK6kbc/tpO Ofe3PT4WvdMTJL/D23LM7rlIE2I1aLK1or5Z+PMXTc14fksZ+nRPRG5GMmvtTqQYtMjoblC91Sn6uWBBsklEI kpPvNg85ebmFhh0asRp1WhIGKhVKsTLyKJSKqobMXX1HszNz+ZkNIYTg9ILJqzdcxafFefLziu+4I9sys2FXz5ag O5J+g6r8Pk6z7tfb7bYcaneip/qmqFSqbg8+cOyUrxOmehtm4jQEVb3FYZh8PDDD2PTpk3YsWOHrEIOAlcOH QIAdO/eXfD92NhYxMbGBrKZBOFBIIJyvAmikVlcenXxXKT51quvT1S7vDcmJw1vzMoV/Fwwldkklg25E683Zu W6nDwlGXRey6l31FtbYLE7BINGgeAFSvojm3JzobXF0aEVPm+DJYWul8uT7z5WA90mInSE1X1lwYIF+H//7// h/fffR6dOnXDp0iVcunQJzc1t0ewVFRVYsWIFDhw4gHPnzuHTTz/Fb37zG4wZMwaDBg0KZ9OJDk4oA2Z8cZ VRkvqKIDo63spJsHNJR2MgXjS2OZrgxpxEnnya09sPYbWUv/322wDaCgTxWbduHYqKiqDT6fD111/j9ddfR1N

TEzlyMjBz5kw899xzYWgt0ZHxcB3Ra0IWMONL/lpvLflUFptoL3gzlr2Vk2DnkpYKxCvISYNGrYLZElm5vjti8GA o50u5ehNz89o8DDpSuklviLa1LezuK1JkZGRg505xXzWCCBRSgit0XP2Lvul4YfoAPLe5zGUxCkbAjC+uMt5Yr6 gsNtFe8HYse2vIDXYuaTYQb+HHR1zmlTxjKgpH98Skv+72yYc4mli1ub0GD4Z6vpQbc7ZWJwAgMU4bdQposl nGtS1iUiISRLiQEtx4nVrwuPgra37ar94zGI3W1qAGzPhyPKzUeuWNTy1BRDK+jGVvrbyhcNVgKymyQX0AUH rBxKUWjETZ7CjVH8MxXyrJk/+LvunQqWNQvLE0qhTQYBKta1vEpEQkiHAgJ7jVDTbRo8OvTlSj0dqK3ukJGJKZ gt7pCUERclZxEELseFhp6ivyPSfaC76MZW9TxPkii75S22jHvA37MW/DfqzeXg6L3cG9F4mymWTQBX0uDDfh mC+lxlyeMRXVDTYs/WV/LNp0NGixDtFltK5tZCknOjRygmtqDvxxtbdHjL4eDyuxXlFZbKK94OtYlpMTvrwmx Wnx4oyBeGbT0aC6atQ02oMy97QHwumiEY75Umz+L8hJw4ppA5Bi0AY91iEaida1jZRyokMjJ7jxbmWi3fH2 uNpXHzdfi4flUl9R5gSiveDPWBaTE7F4kpV3D4S1xRk0V416awtiNdIH2R1RNsPtlxvu+VJu/i9T0vT5+UhVQINJ tK5t5L5CdGjkBDdepwnYcbW/6dSCcTwcyuN4gggmgR7LYvL61YlqLPrkKNISdEFz1UjUa1F6weRR2ZOloAPKZr DTUSohnPOI1PwfrQpoMInWtY2UcaJDIye4yQZtwMoSR6KPG5VdJtoLgR7L4ZTXtAQdTIXVY05etodinm9Mx coZAzucbEbC/Bmp82W0KaDBJFKflRwaRi4yYZRTX1+PpKQkKuVNiHLR1Ozir2fQabF4Si8MzUvGxe4QLGmfo G/729ys3K+xtLIOM97aK/r+5vmjMSQzJaD3ppRwlF0m2SSCQaDGMiuvBp3apey9XgvGwco63NE3HYMyxOX VX9/ni6ZmLNlShpu7J3K/nRynRVaqATekGLy+H2+IRNnkz59CzyQjJQ45XTuFpC38MRYfq4FOHQNTsx0J+vClIX Rfx4DrCmi3Dph9hSUca5s/kE850aExW+ywtjjw3JR+cDIMrHYHkg06LN5chkWfHOWu45fRvmhgxpMfHvbar zGSjxip7DLRXgjUWE7Ua2HQqbFqVi7WlZzF6u3l3Ht5xlT8auiNop/1xvdZTHnvkRyHP90zOKoUimDCzp9iz6Tg mgIaCt9ydowF28fdm41dR0lL6S3RtraRpZzosAhNqCvvHogvjlR5lDQG2ibbV+8ZjGc3HUUfnvWKtZydqqrHn+ 4ZLDoBmC12PLyxVDQncqTmTQ0WJJtEJGO22PFF2SVsPXIRJeW1Hu/zZZavPHWO1+G5TWWicwhfzsMduCh GJMomO38OykhGaWWd7DMR+45AZW4xW+weecGVtkMJkTo2iOBClnKiQyIWNJTeKVZwMQXa/BbrLHbc NyJTOHI2Jy8btU12j0WaP/nLpTakimwE4T9CcgTA61SkQzOTXU7M+Ow6XYPaJjua7A6XuWRN4TDJOYRNTxe txU3CBTt/nqtpcpl7+Uil/wu0khvMNIThGBtiaw+tSaGFlHKiQyl2oblli8VosLZiXclZDysN+/fSqf1lJ3+xl0ayjBCE/ wjJUUFOGhbcZsTc9T9wRXiUyBa/YI8QDifj8Vvyc0hbejrKLe09PZLjcMncLHmNUPq/YCi5wcyDHeqxIZb6c/GU fnh2cxmtSSGEsq8QHRKxCVUuN3BCrEbw2BRoU8yFFmnANW1XkkGHtAQdOum1qLe2oKbJjsv1Vjy/pSys6b 4IltoRU74OnK/DmSuNeHfuCLw1eyjWFg3HoIxkLNISJilbcnEgDifj8VtK84tHa3GTcJMUJ62MxsdqUFHdiNLKOI RcaYTZYkdtU+AztwQzRiiUY0NMZm7unkhVQsMAWcqJDonYhMrmBhbzV9RrYrCmcJiLL/naPWc5i1qjrVVy8 hc67gbaLHmFo3tib0Wth3WOrGYEoQwhCyM/MPCZTWXc6+4uZ0Kwqebc40DYDE1OhsFbs4e6zAVycwibni 6SA78jGbFnArTNo/vP13kE6S/5ZX8YdGrRkw8x67qU24ZUO/xNQxjKsSFmlc/NSPbJTYjwD1LKiQ6J2IS6ds9Zr C0aDrVK5eH3/cL0AVj+2TF8ffIK93qeMRWrZuXikY2lsNgdM0jUKB5v9AgCZRV3MUv67tM1cDIM5uZnC06E ZDUjCHmELlxz87NIXc7EEIoDMejUWFs0HG9uL3dR/ti5YOHHR/DSzEEuvwF45kcOplLXnpGKzZI/zUWJz67TN Vj66THRuRW4ruSyVnUGwNItZdjt9vz4bhtKYoR8JZRjQ8wqr9QNiwgspJQTHRKxCXVYVgp6djZ4+H0n6DV4dt NRF4UcuL7ozs3PxpELJiTEalBaWecRBMog7kLH3fzvmpuXLfheMKxmFMBDBItwjS0hC6OUxY91OZPCPQ4kx aDDc5s9s6uwc8F9IzLxyMZSLJ7SD0un9keTrVUwPV0wlbr2jlBsjiZGhUmrdgtaw3efrsHvxvYWHAesksv6VQ8 Wye4i5H8uFSPkjwyEcmylWeWVumERgYWUcqLdIjcpyuV15V9bUd2Ir09UC/5OSXktFowz4r5hGVj66TFRi9zi Kf1gsbdKtInIOhEMqxkFIRLBIpxjS8jCKGfxkwvmBFxzHVdUN4pmV2E31sOyUjDupi4uRVvMFjsqqhtd5iPKLe0 77vmnSyvrJJ9lrDbGY2ywSi4AbswWje7plduGUB7sQMiA0rHh7wZYzCpfesGEfGMq9si4YRGBhZRyol2idFJU WlhALvBGr1XD7nDi65PiivvzU/pBEyNtfUiOc7U+BMMyQqnYiGAR7rElZGGUs/glxXln8ZObC5LitB73KTcfkbz5 j5wfdnKcTlTJrahu5J6Nv24bgZQBufUpEMq/mFX+VFU9XpwxEM9tLqOTnBBCSjnR7gi0YmC22BGnVXsEdPGt MklxWpibpSfrZrsD2Wl6SV/B3ukJ2Pb42KBYzViLylWLHXPysjE4I9njPiiAJzQotW75awULtRtJJKT541sYa5vs0G tjUGBMdfEPZinwweInp/yluClS4d6ohBJvx1sgx6cSP2wxJZe/0fLXbSNUMhDlcSVllaeTnNBCSjnR7gjkpChkiXA P7IR6INdJr4XF7sD824xwMIyLmwtbIrproh5dfSygJ7XAKbkPFgrgCS5KrVv+WsHC4UbCV24MOjXm5me7BD0 7Q1RAmIO+qhsxdfUerJqVCydcAy/zjKlYMW2A1wqGt0F4kbBRCQXejrdAj88kgw4vTB+AZzYddXG5yDem4oX p0s+Zv9FSmj1HiFClM+SPKvFZM1lavBpXYhuWaCtTH+2QUk60O4QUg2GZKUgyaKFRx+CqxQ5caVRkxRGvRL gHd/KP8qQW60S9BhU1TeikV+O5u/oBKsDc3AJriwNVZisMOrXP9yy1wMXr1KL3EQPgg4duxU91zdwpQKKX x/mEcuSsW6/eMxiN1laYm+2wtToxOCMZB85f95VVagXj/477gn2+tgnqGBW6JuoDfm/siVK8ToMkgxav/vuki 38uu/n0Z1PgjXU1LUGHYVkpeGRjKebmZ2NuXjZsrU7EamJQ3WBDisH7se5+3M/27+heqYjVxKCmyc5dB7T/f OSX662w2Frb6iwIBEc+/fERvDB9AJLjtFyfXK634lxNE2aNyMScvGzu9NGf0wOzxY7lW49jSGYK5vCec+kFE1Zs PY4/3TMYgHBVV/5Ga+2es1g1KxeAdPYcMUKVzpAdV/yUn4GWNSL0kFJOtDvYSdGgU2P1/bl477vzGJKRjD/9 55THJCtllZGycJWU12Lx5H54MD/bJTBULGL+1ZmD0GR34l3tp13akG9Mxelp/fHkh4cxomdnnywScore4in9R O9id3ktihpsmP/eQa499w3L8LoNhDLkrKYV1Y24/5193GtCpxlKrKvs74RqwXbfFBaPNwpmsNitp8uGt9ZVvkz y799fv1j2uJ+fPs/9+9k2ted85JW1TVi06Sjm5mULugcBbc+8vLoRG/aew8szB4EB8PRHh12u549zX08PTJYWz BqRCVurEyqVCser6in3PINOjatNdo+NA/858edudhO3YJwRsdoYJMfpFLtthCqdITuuxFJ++itrRHggpZxod7CT4 tCsFKzbcxaDM1MEJy05q4ychcva4vD4nArApIHdUTi6p4tFroVh8Ozmox5t2FNeixVbj+HlmYN8tpjJKXomGV9 3fmDTnvJaPLPpKE3kQUJuTLk/K/6pDF/pMzVLV9NifvcUC7bQpiAYhUd89aENVoYT9vPFG0sFLcRsm9prPvLL 9VYs2tQ2p80emSV5ra3ViV2na7Djxyv44kiVR3+5j3Nv58KLpmY8t/moqKI/Nz9b1JLPPqdAjZNQpTNkxxUV+ WlfkFJOtDvYSbG6wYbXvz6NojzxohG7Ttegqt7KfY6PtxYus8WOpwSUBgD4/OF8QR9FADhYacLSXxrQ6mBQe s19xJvAPzIFL17GLcY9sIkm8uAhN6aEgsyE8te3tDpxud6KRmuroBsH+zuhWLCFNoViGSxYVw9ba0N2rCv5HR a5ewmWX6ySNvVOT2iX+cjrmuzcnCYXHMm+n94pVjadJOA6t0q5K5ktdlQ32FB51Yl5+b0wODOFs47zFX2lc hCocRKKVJfsOneigl7yOvcNDtWniGzCqpSvXLkSn3zyCU6ePIm4uDiMHi0aL7/8Mm6++WbuGqvViieeeAlffPA BbDYbJk6ciLfeegtdu3YNY8uJSKdHchx+NjUDkE9xdeZKE178/ITHEbgSCxd/govTqT18gFnqrcL5yVn3gmWfHp OsHgeIH90/O7mv5P3Fx2pE7yPPmIrSCyaP16PdzzWUeOvj7O2zAFzH8Pg+XaDXafDkPw+Jjpm0BB0KctJCUp VPaFOo13puBMVcaeTcyNj+rW2yY23RcMHsR0B4xqxSf/H2mI+cP6dJBUcWGFPRpVMs3po9FOmdYlE83ij4/ IC2cc4/PRCb8zg3GJngdamCbHy8HTtKZD4UAZI9kuPQZJOufcHf4FB9isgnrEr5zp07sWDBAgwfPhytra145pln cMcdd+D48eOIj48HAPz+97/H559/jg8//BBJSUkoLi7G3XffjZKSknA2nYgCWAtxrCZGMDqdXdxjNTGCR+BSx5 CvXPMRV5rRJEEvbK0Wcy9wb4/U0f2kSpOooveLvunQqFTCGV+MaZiT3xPF75d6fC6a/VxDiT8+zvznVZCThsL RPfHIRs9nAVy3NOYZU/H4L27CkZ/MKMrLxqyRWS5jmT9mlv6yPy6ZrZLtD8RzFrL+MwzjUXhE6Vjn403WoH CMWW9009pbFotE/XX1QSw4ssCYhvm3GXHf/33HPSux5we01WlgTw+k5rzrbjDiQfirt5fDoFOjS6dYaNQxkil tvRk7kabYpneKVeQe1ZFSc0YzYVXKv/zyS5e/169fj/T0dBw4cABjxoyB2WzGmjVr8P7772P8+PEAgHXr1qFv37 747rvvcOutt4aj2USUEK/TIM+YirKLZqwpHIbV35S7WOjyjKIYUzgM35+7CkD4CFzMwgVc8yVVmNHkSoNNs Dqa3LFqldmKMzVNklb4FVuP44tHCvD8Fs8iD4un9MPCT47gQKXJM/tEvRVHfzZ7fF80+7mGksv1Vo+ANcA3 H+cEvQbPbToqaD1sy6UdizWFw1B20QydRo3Pj1Z5pPdjFR12DKvQFvdQYEwTdBnwJUe3O2aLHU6GwZrCYV CpVJzCo1apUJSXDQbXFSVvXWmUZD9ivy9cY7a9+osrISVex81pFrvDJcMNAHRPisPhC3WYt+EHI3EtFidRcK1 OA5sVSMo1SM4N5vcTbsIH31fipZmD80qXJ0V9zb1JaQsEV7H11a1EqQ97R0nNGe1EIE+52WwGAHTu3BkA cODAAbS0tGDChAncNX369EFmZia+/fZbQaXcZrPBZrNxf9fXS/tbEdGH0skr2aDFw+NzUFnbhLe+Kfew0LUp0 Crc0jOFe03oGFPIwsWvAOfO7vJaPHpN8bW2ODC6dypS43V4ccZAjxy6cpypaelyo4hZmCx2B+qb7S6KXpxOj YOVJpRfaeIWJCGF6P0HRrr8HUw/1/YkmxdNzThX0ySaccIXH+dl0wbA2uppFS6+zYgYlQoqlQpjcrpgxWfHBM cyOKbosGM4NV6HlV+cQGFeTzjBeGT9WTljoF/PWcqKbXM48ft/HHLZCMbrpJcbtt2sfNtaHZLZj+bl9wIQOt9s sXmnPfiL+yKbXRP1gnOaXqtGrCYGDBj8LHJS4+5WwvYXP02nu2sQ/7TTIDOWzM0tWFs0HK98edJjvpVKaSu Hr4qt3Jrlr/VdiXtUIFJzkj968lkYpdzpdOKxxx5DXl4eBgwYAAC4dOkSdDodkpOTXa7t2rUrLl26JPg9K1euxLJlv4L dXCJMeDN5JRl0yOpsQJxWjac+Pir4fbvLazAn//rioPQYU26Cq7e2YN6G/dzf+cZUvHT3ILx27xBcbbKj3tqKRL0 GMSqV5PfwA6jELEwAEB+r5RQ9s8XOWfHfmj1U8vv1WnXQKoi6015kk7WWzRqRKXmdt36q8To17hrYHU W8zD1IF81osrdi1bVUmmsKh4luBFhFhx3DSQYdlk0bgCVbypCbmclpx8lxWmSIGnBDisGr9vGRsmLHqFRY/sv +sNgdLuN0TeEwye/spNe6yLfc2E3Ua7D9ibFIDYFiIDfvRLu/uK+ymZkajz/fOwQmix3qmBgs+7TM4zRSzFUIKU 6LzfNHi/YX3zXIPR5BbiwBQIO1VdQAUlJei+fcUtogwRfFVm7sBMr6Luce5W9gzkhz22mvSldMh5AFCxagrKw MH3zwgV/fs2jRIpjNZu7fhQsXAtRCItzITV5mi2eauO7JcWh1Sge7adRtirE3x5hyVj/3CXBPeS0WbTqKWE0M+ nRPxIjszujTPRFdE9v8AYUQCvwrKa9Fbkayy2vu7eZbc+SyliTFadE7PQFDMIPQOz0hqIpEe5FNtn/9Lcct9L2LPj mKeRv2Y/57BzFvw360OBis2XPdD1sucBOAy1jokRyHP90zGDOG3IDUeB1u7toJ/Xsk+aWQs20VPSk6XYNWJ +MxrtlgQCHG5KQhQa9xkW+5/rW3OkOikCuZd5IMupDJUTDwRza7JurRLVGPZZ8dE0x1uK7kLObmewZbph h0kv3FugYBnvEIUmOJnTfNcqlgBVLayuFLRi65saPE+i6H2WJHRXUjSivrUHGlUXAt5PenO3Jrny9rL+EbEaGUF

xcXY+vWrfjmm29w4403cq9369YNdrsdJpPJ5frLly+jW7dugt8VGxuLxMREl39E+8DXyUtOgU416LDxwZFYeb ey4/yLpma0Op2Si4JOQKHYLdBG9vjbfbLMM6ZiTl421u456/E9fMVM6Jicb82RU4RC6fPaXmST7d9A962QFS 43I9nF7UROUb0xJU4wC0SgFUY5i2GTrdVjXK/dcxYPj89BgdtYZ8dwk63VRb5LL5hQYBTfsO49U4vaJrsihcQfA qE0RTr+yqZcoTU5Q4IQ/LnRXQ7W7jmLOXnZHvLHnzcDvWkGvFdsIYwdf91KLpqaUbyxFLe/thMz3tqL2/+8E w9vLMXFa9nHWMTWGiWuVvz7MOjUKB5vxJrCYXhr9lAU5WXDZKFsXYEirO4rDMPg4YcfxqZNm7Bjxw5kZ7 vupm+55RZotVps27YNM2fOBACcOnUKIZWVGDVqVDiaTIQRXyevmBiVaLquPGMq/nXsElZvL3cpSy+VF/fpj4 /gv27NwpxrPpHuAXdz8rJRJeJLKdRG9+NvvVaNrUerBI98AaBXWrziY19/S0YTnrD9K5pxwse+FbLCuVvGpVLP jcIJQzeeT24wUWIxFHPrWC3i6IFaWefyHWv3nMWm+aOxfOtxQRlb+PERzBhyg0fAdaCP1APhi9vekesj/jj2Rj 7YMfRidaPL6+6BpQadBhZ7K0ovmLh5s/SCCQU5aYJKsa8GCW9iCOT6xdzcgqQ4391KvHV98dXVir2PUFUI7si EVSlfsGAB3n//fWzZsgWdOnXi/MSTkpIQFxeHpKQkzJs3D48//jg6d+6MxMREPPzwwxg1ahRlXumA+OoTp4l RSSrQbBq6Xadr8PTHR3DXwO5Y9Ml1H3T+Is9aDlpG98TDvEWB9QFmF4U3rilr7ui1asGiKfxJ0cEwOHzBJKiQ i8lJQ/ckveQkys8lIZQVIbOzAemdYkkh9xF+/z7iNgaSr7kDdfVBORbK5OFu7YuUTZZU1pGCnDRo1CrOrUOoT UKvucu3xe5Alcnq4g/Pl7G5+dlY+ql0lcZA9le/vrgdAbk+yugch7dmD/WQD6X5vjsLPEd+zMKawmEuMTwAcL KgHi9MH4DFmz2zUvkjK94otnL9Ym1xcC6MvmTw8SXw1JfUnOx9hKJCcEcnrEr522+/DQAYN26cy+vr1g1DU VERAOAvf/kLYmJiMHPmTJfiQUTHw9f0Y2wWCnZxj4/VoMnmalVhYRVuPvxFnu+6kJspnOltX6QITL4xFVuPV rmkcWOVfX4QDWuNYBjGJVBJ6WLibs1hFy/2893JmuEX7v3Lf57uGST8+V6gbZzxU2nyN1kLxhmh16qRFBf6 wEK2rULZVwpH98Skv+7GsKwUryzWQvK9v7IOpZV1gnI2qIdqSMqLd+S0h0qRK4r172OXuUwnrHx4Ezgotw msbrC5vJZnTMV9lzIx8+29eOKOm/Hs5L5otjsCFoSrVLGV65e9Z9p87tksNt5uHkJ1isPeRygqBHd0VAzDMOFu RDCpr69HUllSzGZz1PqwEte5aGoWPTqUUjb5n3tr9lAuzaAQYu9ve3wsAOD213a6HOO5uy68MH0AVmw9j q9PVHOv5xtTUXTNKs/fBizJScOr9wzGkx8edlmc2PRfo3ul+qx4sVaoSM0IEe2yGaz+5X9vYpwWOnWM6IIdzg 2W2WLHF2WXkJOewAXVIV4wuRRmGZOT5pX1zF2+DTp1m+/qNxUueanzjKl4+LYc3Pf370S/a/P80RiSmSL6 vjf4Ou9EK77lplAfFeSkYdkv+wOAS1AuP0OUO2JjRuoZGHRqVDfYUHnVAsD/cRhlxFKHzuGtB2wWIW/nk4rq Rtz+2k7R97c9Pha90xMCdh8nguo9TiT4BFLmOigklBNRh6/KED//8V2r9ohe534Uyirldw3oBo06Biu2Hucs2v wqoSkGLbJS42FrcaDFyYABAxWjgoNhcKXBBoeTwQGBanJfPlqAO/+6W7Q9gZxYI4III02zpa20e6uTgZNhYLG 1lsmgC0tu3kjcYLEKgZDrAJ9tj49FWoJOcX5js8WOn03NOFdrQXqnWJy50oiLZisG3pDk4sKS1zsVs/6+T/J3Ayk 3kfgMgoWvsqmkj8wWO1cUTazCptizk/r+UCqo3vLj5QZcuGpxGb/8e/ZWmWX7wdxsh63ViZKKWo8+DMZG 5PTIBvziL7tE32+va1UoiZg85QShFF/LVfPzeIsehRpTkd5Jj+LxRi7zCT+wxd21hD3K+0XfdCye0s/DBcXdki6Ut7f e2irZbgokCz0XTc14fksZ7huR6fEMw5GbNxJLtLNH53JpGk3Ndiz97JiLpfAXfdOx9Jf9YW1xeijqSYY2BX7+ewc5 Odpy+CJe//o09/mCnDTMGp4RUreSSHwGkYZcH100NePpj454nHq4z4lic57U94c6INebQjpglUpy4+pNXIKQ 5T1foEppMGJM0jv57v9OKIOUcqLDIRZBn2dMRWFeNn79f98iNzMZq2bl4thFs4tSxvfpnc/z6U3Qa1xcUMQ CYtqqiAIfPHQrfqprhl6rRpcEHQw6tWBgJ0CBZKHEbLFzx+CP3n4TXv7yhMczDHQgYbTCBn/JpZ6ztTg9XLN+P SITT318RHSzozSYtj1U0+womC12D4UcEC6K5sucF8qAXG8L6QQqLkEs28qe8lqoVCpsWZCHGJUqaKc47aWC bSRDSjkRNQSyxC8bQe/uh8haGtiF4uk7++AvX512+SwbOLl6ezm+fLQA9dYWtDhdFQ+pgJjd5bUoarBxfusFO WIYWzQcc9f/4KGYk/UhdLgvtGsKh4lWBKSgpuuKhlSaxoKcNOw94/q62lbVfbOjJJhWKhMGlQSPHFiXFXeFnK WkvBbz8nsB8H3OC1VAri8VOH1VZt3HsNPJSBbtilGpgu4+0h4q2EYypJQTUYG3lgmlqbZqGu2ix4ol5bVQx6gk 23Wmpgnz3zvoURJc7kif/z57T4un9PNIxRgs60NHUFi8uUehhVbuGbLH4R2hL4VgFY0IW8oEU47mG10xdG p/TF3tGr+hNIOD0sVfyKWBSoJHDuyzmDUiU/I6jVrlc45/QFrxfWXmIABtfuf+yqkvaQgB75VZoTG8pnCYZNvq LHYuFWkwIVeu4EFKORHxeGuZ8GZBIvdDIPb3Zo/u3Y/w5Y703d/ffboGz0/ph22Pj5WdsP1VAturwsLvI3idBgc q67Bi63GXDAxi9yi00CqpCNhe+1IpPZLj8MKMgTh7pRFP3nEzFk5Soc7SglYHg4OVdbjSYPU4/VG62QF8W/x9 sWQSwYH/LNxTzbqTlhCLF6YN8CubjZji22R3BKzllFLfdbF5WmlSAqExLPu55hY8vLG0w8w/7RFSyomlh1WY0 hJ0eHnmlKQnxqLR6kAnvQaX66242nTdMuDtgiznh6iRqQbK5iN3P8KXOtLPE8lj3mRr5SLw2Qn9TE2Ty4Turx LYXhUWsbRj/OAntjiU4in9oI5RuWxmhBZaObcMdQxwoqoec/KyMTgjmct+EGl9abbYYbK0oMneiia7A8lx2o AWj2q0tuI+iSwo7lUVg1H+nI+vIkwi8PCfhdyc2OpwIjlJOse/0hNQInprCzRqFZ7bVObhOrPrdA2WbCnDCzMG otHaqtjllbdmJMbJb9bl7kNsDCtZVyJt/iG8g5RyluKpt7YgLUGH9x64Fcu3HvM4In9h+kDub28XZLniDnvKaxRV

A3WvtMj+rQJc/JLdP8eHVUbEJvQXZwz0yGLB3pfSSbg9KixiGw2hALLdp2tw4aoF8zbsd1kkhRZaseqZBcY0LB hnxF2r9nBWYKENQLj6kl3wG20tSI7TocpsxRvfnPblpy9WFtvbkxgpy+HaPWfx2cP5WPbpMdGCSHwC4fsb6i wcHRGpMcJ/r9V5PeOymDyxc6JeGyOfuUWBQUIoNkTII50NOH7yn4dcqsLKGTnkfNfiYzUedSeA65uAJVP7Y 9Gmo5L3ITaG2T6MUalE856zvxWNczlBecqJIKN0gZe6rqK6Eedqm7BWIDgMaFPM/3zvEHRN1KO0sg4z3tor 2p5PF4xGVmg8y2/pNTFY+ukxfMUr9iO+Txc8NuEmLg95eic9tGoVgsxW3Jgch69PXgbDgMudrNegceQnE1Q qYGK/brC2OJAYp0V8rAb1zS2ovGpBUpwWP15uwAufnxAM6Hzj2oIIVISjICcNgyX8cf/9WAFu7iY9xuX6J5TFH wllm3L5iT8tzkNNox0nL5nRp1siuiXGwdzcgk56DRptrejbrRMA4OGNpR4LrUGnxuLJfTE4IwU1TTbE69Q4dU n4GeYZU5GbmcI9n3AU0uArJMXjjeiRpMfnR6sE5UYoj7EvJzFC/c/P4Z8Yp0XytSJI5mY7EvSBL4jEnz/idGpsPV LlkbeZxZdcvh0tbkBKNqXGiArAU7v0sB88dCuuNNi4OfLozvaXeTOicxz+fewvTlbV48/3DJaM+SieWIoD5+tcak PotWpcrrcir3cqkuLaNtbu8ydbDM69rkRGigEvf3lCdHMoZORgx0GdxY4Wh2t+cHb8WuwO0fmoeLwRhyvrX DYBQr8pNacZdGr865ECNNlbca7Wlpi3HKBCPtEKWcqJoOGrZcP9urQEHawtDkHFAmizRNc12aHXxCBOp8Y HD96K+Fg1ABW2n7qM/915Bha7AwadGolxOkHfwhdnDMSiu/qivrltUW9uceLlL096WHQevO8FnUaFuwZ0 x/LPjrnkTs4zpuLh8TnongR3mcwbra2Yt2E/Z+0fmpnsshC0WfsHcJOxVHS9IF/mT3XN6Jao9+voNRrTL8pZRn +qa8s5/sFDt2LJp8InLT3T4gWDxHlzk9ElUY9f/W0vLHYH1hQOwzObygR/p6S8FnOvnaoA3velv4qf+4lBbkYy1 v4h3K1pl+utOFfThFkiMjEnL5sr6iJ3EuNuOeTn6OdvIN1l35ugN6m+UZK3md8Gby3xHT1ugI/QqZRBp8agiGS cq2kCA2BOXjaG9UzBwBuS8MqXJwVPCh/eWIrczGTkZqagtLlOf5w+UHKs1zTaceB8neC4yjOm4pbMFKzYehj PTu6HA+frXD4bq4kRHJPeZlcSGgcFOWn4tDgfDsaJ5DgdZxgSQ2mQs5Q1flhWCpINWjgYBser6pGbkYx+3RO x+v6hLoWYonEuJ0gpJ4KEUt9lpdedutwg+Xv11hb88fMTHkUpim8zYtANyVjw/kEsntIPizcL+xY+s+ko3piVi15 dEnC53orl/zzkocyUVpoQp43B/nN12CpgfSwpr0WMSoXV1yzeLA6GwZrCYdCqY3C1yY45edl4lL8XLC0Ozsqx Yutx/OmewblKplyQnNyRZajShoUS/kbD3Rqm16qRlqDDK78a5KGQA20buuc2H8Wf7x3iEiRmbm6BtcWBv WdqXRQ7pVI1vO3LQCh+7q5Jcm0FrrtytBV1OexiwSswpmLz/DycrW2CVh0Dk6VFcGy5Z71QmvKQH/QmFk Mh1zfxOrVo3mbA1XXJl2xG7TUGw1fcx5jYBuzFGQOwbs9ZD6WXHROLJ/fD0KxkVJmsuCE5DimGNhkW23z VW1skaz+s2HoMgzNTsHhLmcszB9rcpZ6b3Nfjs94EHIuNg92na7Dk0zLkZqbgyAUTXpo5SNLwofQ3kwxt8VM 7fryC9E6xLqcCt93UBUkGHRqsrSitrPPYoKyalYt/fF8Z0XN5Rzt58gZSyomgoNR3Wel1crv+eJ1GtCjF5IHdsXhK PwzNTHZJOSj2W43WVkHr4tz8bLzxTTnm5mWLWh93u1lYLpgaseKzYy7KDmstevLDwy5WvJpGu6wlOzlO+ H02yKdLgnR+5vZW/MFsscN5bdMTo1lhNUGH17/+0WWhKjCmYtHkfrInLV2vnTLwn93fdla4PCOx/meJ1cR4 3ZeBUvzcN3RyAZVAmzWf+323/tldXotlW49xLjlSfuj8DY2t1aHIGsjii9LN9s3iKf1E54895bV4bnI/TOiT7nMu5f YYg+EP7mNMTFHumqgXdNEA2ubl30+4CTPe2othWSmcrEiNg0S9Vr72Q16bMv5Afi8UjzdyG/M4rRpdE/Ue J1zeBBxLjQP2hGz19nIs/PgIXr1nsKjhI0lm/uD/JgPgiyNVLuvamJw0jL2pC8wW0xZtOiq4QVEBET2X08mTNKS UE5L4uqNVGmyl5Dqzpc1yKRYcVmBMg16rxmMTcvB/u864KFHshJnZ2YBGm3R6w9omG1ouOdEokgaRXRR mj8yS/J6rFjvSLHYAEFR2hAlQ2XvNTosXndDzjanongT3iL5nlfyFHx/Br4beKJv6g70UfxBzWyjKy8Z3Z65y42B3 eS0WWKTHWb211TVA0qCDvdWJxybk4JnJfaFWqaCOUSE+ViP6fApy0mDskuC19TRQip/7hq70ggk9BMYLv 700hkFVvVVW4QDaNpxSmwR2QyN1fA8os0CySveKaQMk+8bULP1crS0Ov/xqQxU0Gi2WQ/cxJqYoy1mEn QzwWXG+S6GnnT9eQdHonrh/ZCbSO+m5GlS6JjsMOrVs22ytThh0atyQrMf/7Xa1lAvl95bLrpSgv64esaedr MWa7ybCv99dp2vQZGsVrRjdSa+RlcfTlxug18Rg2WfHBE91lWxGrS3yp2ThgE6e5CGlnBDFnx2tUt9lJdfVNNp R/P5BvPfArVix9ZiHi2JhXk9MXb0Ht2SmYPX9uSh+39WP1NbqRJOtVfa3GqytuPd/v8N7D4wUfJ+deOUsLCo AT3x4GH+YeLMiZYd/r2KW7IKcNBSO7ol/HavC5IHduZLjrPvLlxtLJd1z3Ce8aC/+IFluGsAHD92Kn+gauQWUv8 AKkRin4QLJVs3KxSv/PiVYAl6utLsvQYqBUvzcXZPW7jmLN+8fiuLbjAA8M8jMyeuJ+//+HVbPGir4fSx8BUvJJsG buAW5DUmTXXojHS+jrPnrV5sQKz1uAuG3G02WQ/cxJqZ8y82RqfE6l2DbOksLvjp+Cf16JCE3IxmX661INmiR GKdF4brvMejGJPxhYh/J74zVxGBufjaWfebppiaEVDaYwtE98dymo1g+bQAYQPC0kx+zwL/f+uYW9Lq2OWc NH3qtGluPVmHu+h/w0rVCRu6xLYWje2L6myWw2B0oMKahMK8n9vKMCyxKNqORmmGITp7klaWcEMTfH a1S32Wp6/KNqdBrY1DdYENNox2z3/kOa4uG40lnm1UbAKeQWuyONmVU1RZA9iDPDzhWE8NZg6XSH7K5 w789UytolWcnXrlcsT9ebsB9IzJRZbKK9g/guqDx+0Tlku1gGEx/swQAsGpWrkcmmoKcNMXuOe0Bqcl9d3kti hpsmP/eQQBtz2Ta4B4SJy2pKD1v4jKWyPIDB/qkwZfgWzHLKn/DYLE7sOD9g1j2y/54YdoANLc40GR3QKuO

wY5T1Sh+vxRz87PhkEnA5a5gyS343sQtyG1lhLKn8lnXiZ9c+BsjcdHUjP3n60RlPRAxGNFmOXQfY2LKt9Qcm W9Mddkkmy12vLD1GO4fmeXhm55vTMU7hcNx/9+/w9GfTCgwpgmmN2Tn71G9UgUt90LtsdgdnDHjmUl 90WBrhUGnhupagoCSilrsKa/Bp4cuSp52llbWudSdYOXVPWbiyAUTahrteGRjm9zNzcuGVhMDtUqFb91iV3a X18AJxuM0IUVuMxqn4GQhHFC6UnkCopQ7HA4cPXoUWVIZSEmhFDztAX93tEp9I5MMOrw4YyAWfnLEww JelJeNpZ8ew1N39uHadKWhTRmft2G/4O/uPl2D347tzVkxcjOTUd1gw7CsFNE2ieUcV7nlgr1cb0WBMe16rlh A0Fec/d2n75S37Aj1Cdsv/L8rqhu5CZs/qbPWcmOXBFy95jIjRnua8LwJiC0pr8XKf53AC9MH4rnNRz0y3yyfPg CTV7WVgleaHSGQJw3eBt/KWValNgzuqdZyM5Lx7Zla8SN1Y5pHoSs567A3cQtyG5KkOK1k3yQbtEGJkWCV ZfbkBIDHyUkg/Haj0XLIH2NOhvEoDgW0zaFrCocJzpFFedlo4rkS1jTa0adHkuBmuO3k6xTm5mdj6WfHsXI+H pa51apg5933951Hfu80wTaL5fcelpWC0b1TsevzY9h+8orLd66+PxfpnfT4w0dHBL+zpLwW88cZMSQimVs7x DZq7jLBzjHvPzAS978jXHhL6DSVRWozmmdMxcFKk2wmrnDQHrN/BRqflPLHHnsMAwcOxLx58+BwODB27F is3bsXBoMBW7duxbhx4wLcTCLU+LuiNVvssLY48NyUfnAyDCw2B5LihC2KdocTQzJTMEfAJcNid+C5yf24CUh JRglzcwve23ceiyf3Ra8uCcjqbOB+k7+g1DbZ2iLYeb8FXLegfPzb0bg61g4HwyA9IRZHfzZjTn5POPcweGRjKT54 6FYUXcvB697mkvJa2FudggsW0GbZzuxswLbHxyqysvIVN4vd4ZFq7o1ZuS6FOoTQ69QwWyJvkfcFucnd3YK3 /eQVPDzehjl52Xh6Uh802x1I1GuREq/DJXOz4uwqwflhXnn3Ql9c+UKKn1LLqtgzZuWazVITr9NIHuM/N6WvS 157pdZhpacJchuS9E6xskp3ksG79IpCuD8PXYwK8/KyMWtEJrQxMZibI415+b1gbXFAr1Ujp0s8mlscKK2s88s HPFoth/wx9rLA87klKwXWFidu6dkZRQLz+vs8F8F6a4tMEGcNivJ6wmJ34GxtE3IzU7BoUl9ctdiRYtCi1cHAbG IBvx5JYCA8B7Jz+r8eKUCrk0GDtQXxsRrOd5uvkAPXMmlBhd+O6y3ZD1q1CnFaHR4a0wvHfjZj+bQBouNASC bMzdKGFKH5iN2MLp82AM9uPiq4QXlkYylG9OzM+etHSrxCe8z+FWh8Uso/+ugj/Nd//RcA4LPPPsPZs2dx8u RJ/H//3/+HZ599FiUIJQFtJBF6vN3R8gU/XqfBgco6rNh6nFN2WEueYOGg5hbRCbntfTu3MCvJKBGriUFJeS3+ MLEPusTr0M3NL5NdUFqqnLj3f78T/A6L3YFWxonZ7+zDmsJh0GlikGdMw5Itbemv5uZlo9nuELXYA8CVRht WTBuA57eU+e1/rNT6KGU92XqkikvbFWm+qt6SlqAT3fDwXZH4XKq34Xf/r82lhV9Ahh/YG+wS8IB0xVY2V76 YYumvZTVRr3VJY5ebkcwpLO6nL6UXTKgyWV1k2BvrsJLTBCXjWonSLfRbSpURqYBhNkMSq+w8v6UML80ch Gc2HfWqCqQY7cFyKKRsamJUmLRqt6j7Ef++EvVaVJmVufppYlRYvb0cUwd1xzu7zniMmVnDM2Tze/MzvRSN 7omv3RRylt3INXhq0s2S7Wq4VoOilCcNK2cMlJ3ThU5AJa93y9bCl4tz1zYoQvFFFrsDTbaWkMcryMlce8v+FQ x8UspramrQrVs3AMAXX3yBe+65BzfddBPmzp2Lv/71rwFtIBEeEvQaUR9cd59AlcEXKjsu5iMptzDFx2q5id9k acFeyeP26wrZRVMzXvvPKVG/zJR4neQ9VtfbuL9Tr00uf7pn8PXgHRm/vSS9FikGbcD8j+Wsj0rccyx2R0T6qnp LkkGHlSJuT3xXJD469XV3lb5Fhm+9kfKFDbYPMT9Xvhj+WlbTEnRYPKUf5ygQm5nC3a/7xnhMThruGXojNs8 fHdQMPUgs6t66CylVRqQChhlcz5DEjoeXZw4SrCzsqw94e7Ecuj8fs8WOYVkpiu4rLUGHy/XyJ1/sZntMThq6J epFx4yc0sd/5rNGZEr+bquDkYwfYtea3Tz5DdTzzzOmwtri4DLHZHY2IL1TLPf9CbFaSWNWUpwupPEKSmWu vWT/ChY+KeVdu3bF8ePH0b17d3z55Zd4++23AQAWiwVqdWQGGBDe0WRrRVFeNhh4HmnzfQLFFjWhtH9 iljylCxM78es0MchOi3f5HeBaRon8nih+v00hi9XESFoPuybq8eKMgXhmk6ef8fNT++P+v7dZ0W9MiRPMWm K22EWttfnGVGSIGIw+FwjklBN2wqsyW3GmpsnDegJErq+qt9zY2YCXZw7C+VoLTM0tSO8Uix8vN3hUcQTgsq AL+e+zC7mYK0ek+BD7a1lNMuhcAoLl7rd7chyyEC/5nYEgkD763gRPKsk/zf974aQ+iiukKqG9Wg69ua8kgw5 ZqQZRA0meMRWX662Yk5eNf3xf6RGTBLgWn0qK0+LVewaj0doqqPTxn7ncyZjZ0oI518aAmJsISyCfP7/yKZvL 3d0KL7du2h3OkMUreBuwHO3Zv4KJT0r5nDlzcO+996J79+5QqVSYMGECAGDfvn3o00c6ul2lDszNLaJH2nyf QG8WNYNODSfDoKK6UTJrBOvvOrpXKml1MahpavO7Y4W4e3IcGu2teH5KP9gdTjTZHNDEqLCnvIZLh8i3m EtZDzNT4/HKrwajrsmOemsrEvRqVNfbcP/fv0NNY5vS3S1RL/jZJINO0J+SPcq8lcWgvMMDSJJBhzM1TVz2ESE i1VfVW9g+Tm5ugcPJIKdrJ6wpHlaSiloui3BBThqW/bI/AODB/GzBxYBvvWmyteDF6QOvja3WgFpyAmHp9tey yt+wCLmu9Ew14lbkOEX3G0n+qizebHy8raDbZJPOBuOLXLVXy6H7fSXGaREfq0HjtUqU/PFyQ4oBL909Cls2H fUoY798Wn84nAxiVCr86Z7BHv0iZaHlp11k4T9zyVzlxlRcNDfjhc9PYG5+Np6+sw+abA5Y7J5xSCxKYq3c5cW9 n+JjNVyOdn4ud3fkNj6X6qVdggK5BkRjwHKk4pNSvnTpUgwYMAAXLlzAPffcg9jYWACAWq3GwoULA9pAlvA oWUgT9VqPgEI+rEVO6aLG+rEud8v36p41orbJDgbA0i1IHsGM/GOwGKgw7a0SzjfW3YqxeGp/LoWgfDVQN SqvtmL1N6c9vmfBtRzPYkTqgtoefFWVYLbY8VNdM1ZvP+1WIj4Nm+fnASoGXTspy0IQCutNICzd/lpW3dvgLu fbHh+r6HsiNb+2NxsfbwOG3Su6sgYEtnqkr8HU7dVyyL+vi6ZmPPnhYdHxcmNnA1Z7OZf6klKS/8ylgpzn5GdD BRVuyWgraJubkQxAPPMXIC2/cvLCD8q8arEr2uRKrT9y6UQDuQZEa8ByJOJzSsRf/epXAACr9fpurLCw0P8WE UFF6UKq2KUkTutS0ti92hm7qImVYxaaPIs3InrkhXW/Li1Bh2FZKYLW/Mv1VvyrrAoWu0OR9bCm0Y65638Q PBWYu/4HfFacLzkxRuKC2l58VeUwWVgwavtpj3G1u7wGK7YewwszBkbUswnEc/F3IxiINoQ7v7aUYcGbjY/S2 gVAW9+kxF+/nh8wK2VAIJSNFwBen7r4YqF1z2TFX0OAtjVtx49XUPx+KfJ6p+JP11xhnAzjc956JfffZHf4tMkV W39CuQZ0FCNQKJBPZSGAw+HAihUrcMMNNyAhIQFnzpwBACxevBhr1qxR/D27du3C1KIT0aNHD6hUKmz evNnl/aKilqhUKpd/d955py9NJiA/MZh5ea5Zi9yYHNe8r+4WOZ06BqWVdZi3YT/mv3cQc9f/gNLKtty+4/t0Q ekFEww6NSb07Srriwkom2T57Rt2zYrB/v7akrNIT9Tjf3eeUWw9rLe2cNZC9nvmbdiP1dvLYbE7onKXr/T5RTt N9lbRcbW7vNYlH3lkEKjnkmRoq4g4JDMFvdMTfPJj9acNSuWUxWyxo6K6EaWVdai40ugy13jLRVMzijeW4v bXdmLGW3tx+5934uGNpbhoagZwXRkRwl0ZEeuL/Gs+vWv3nOU+9zKvouuYnDRZQ4PQPQavH6IJufFvad6K 4vfFn6kYvIho3Z85O/evKzkLBsBv1n6P1dvLMSwrBcunDUDXRD16pycgp2snjLupCx4en4M8Y6rLdxblyI7c/Zs sLYrXZiGExIUo1wBvZI6QxidL+R//+Eds2LABr7zyCh588EHu9QEDBuD111/HvHnzFH1PU1MTBg8ejLlz5+Luu+ 8WvObOO+/EunXruL9ZVxnCe7y1KshZ5MwWOxZtOuqxKJVcK3X+4oyBqG+241dDb0TFFenUT6Zr+Vq9mW Td25eg1yBWHYMGWys2zB2B5Li29G9ytNddfqS61gSSJpkjWrkjXG8JhA91JDwXf9vgjZwG0s1FqYXeGxcfob5I OGvQZGvF+w+M9OgbfiC1kkJTweiHaMJsscPW6sBbs4d6nKSv/FTX7FGpc9fpGjz98RGsljh18XXu9vaZs3RPjo NBp8aL0weiyd4Ki72t/gY/K4oQcvLSZG/12Sfbn2JigaK9BiyHA5+U8nfffRf/93//h9tvvx2//e1vudcHDx6MkydP Kv6eSZMmYdKkSZLXxMbGcukXCWGUKgq+WhV82f3vKa9Fi4NBRud4FG8sRdHonpK/bWtxwmyxez3Juvss+ rLotWdXj0h0rQkk7j6+7rjn+fWHQCpVkfBc/GmDUjkNtJuLUsOCt8qlt33BBlNLwZ9Pfe2HSAyk9QYl6XKl2H26 BtUNNtF79mfu9nX8+/I5OXmRMy6Indb6W0wskESCsaE94JNS/vPPP8No9AyAczqdaGkJ7FH/jh07kJ6ejpSUF IwfPx4vvPACUINTRa+32Wyw2a7nl66vrw9oeyINdtl7cL6OCzg6V9OEjBQDuia67t4DbRFWguTvPl2DwRnJkvl e956pRecEHVIMvk2y/iz+tMsPDcGQzfROsZJVU9M7BeZkLdw+1KFEiSKoVBkKdFYGbwwLwVZGvJIP+f3gERy qVcNkafEqq0igLevBkE2l6XILctIEi31x39Ps+cz5Y/S5yf0Ei9UFYu4O1KZIr40RTfk4JidN1rggtjZHWtaTSDA2RDs +KeX9+vXD7t27kZWV5fL6Rx99hNzc3IA0DGhzXbn77ruRnZ2NiooKPPPMM5g0aRK+/fZb0XzoK1euxLJlywL WhkiGnfQOnK9TFHAUaluwkkWJXUTFotwLjKkovJbvtV/3RGw6eAovTB+A5zYLV8H01WdPbnKiXX7wCYZsiq WIDPSGKtIWv2ChVBFUupENdFaGSHI182Y+ZftBLDiU9UIm+zjUm8BgyKaSdLljrqUrnfzGHtHvcXdBFBujXzxSg PpmO+JjAzN3B2pTZLbYseTTY4J1P/KNqXhxxkB00mt8Wpsp60n7wyel/Pnnn0dhYSF+/vlnOJ1OfPLJJzh16hTe ffddbN26NWCNu++++7j/Dxw4EIMGDULv3r2xY8cO3H777YKfWbRoER5//HHu7/r6emRkZASsTZEEO+kVjzc qymwSaltwgl4jaqV0n0jESnl36RSL+/7vOy5Ty1cnqgFAsviDEIGYnGiXH1yCJZuh2FB1hMXPW0VQqt9ZC2Ork 8HaouGCfsSA90p0JLmaeTOfspsJseDQ3W59HOpNYDBkU05mkuLaqh2bLS3IzUwWzRUep72eZlJqjD6/pSxg m5VAbopqGu34+kQ19lbUCmb4sjucPq/NkbRJJQKDT0r5tGnT8Nlnn2H58uWlj4/H888/j6FDh+Kzzz7DL37xi OC3kaNXr15ISOtDeXm5qFleGxvbYYJB2UkvNyNZccBRoBSYi6ZmPL+lDIWje8LJMJLVD/npp/jtzDOmljczBRa7 wyX92FcngrFwUgtg4QcxaHKKfllpm5HkghCt+KIICvW7Uj9iX5ToSHM1UzqfspsJpXN1qDeBwZBNOZlJ4Y2dh 8fnAPDMFV6Yl43Jb+zBsKwUvDRzEKwtjpBsVgK5KWKfpVjdjwl90gH4tjZH0iaVCAw+5ykvKCjAV199Fci2yPLT Tz+htrYW3bt3D+nvRirspOdedc4d9wmcL+T11hZAdf09Jf5zfCuC++4/OU6L3ukJ6Mqrgrl82gAs3lLmsUizZYqF ShZ7u+jQ5ERIcbneylVtTYzTIMWgcxmjcnSE8RUIRVDKjzgGwAcP3Yqf6pqRYtAis7PBJwUq0lzNIGwI2c3EiSpp X222j9vDJlBKZgpy0qBVq3Co8io6xemQmRKH6UNuwO8n3MT5kPOrZrIW6uem9JP8zUBtVgK5KfLmWfoScB xJm1TCf3xWygNBY2Mjysuv7xzPnj2LQ4cOoXPnzujcuTOWLVuGmTNnolu3bgiogMBTTz0Fo9GliRMnhrHVk QM76blXnXPHfQlXsmQV5KRhwW1GzF3/g4slS8h/jm9FENr9b3t8LLomegahshlYbkyJg04dgx+rG/HGrFzBks XeLjoOORFiVNY2eaTuZH05M1PjFX1HRxhfgVAEpSyMu8trUdRgw/z3DgLwL2gxGl3NeiTHyebNZ/u4PWwCx WQmz5iKwtE9sfSzY7h/ZBbuf+d7DMtKwYsz2tIM/upv3wp+367TNXA6GcnfDNRmJZCbomA/y0jbpBL+oVgp TOIJgUqlkr8QwNWrVxVdt3//ftx2223c36xPW2FhId5++20cOXIEGzZsgMlkQo8ePXDHHXdgxYoVHcY9RQ520 tv54xXFVcbELFm7T9fAyTBcRDwg7j+nxlrg/jvuAaiv3jMY7313PqATFU10hDuX662CufT3lNfimU1H8ed7h3h YzMUyLrT38RUI5UFubuCf6rXHzDVypHeKVVYpuZ1sAnskx+HVewajoroRpuYWzo+aNcLYWp3cmvPMpqOyl nC2SnOwNyuBVKRD8SyjcZNKCKNYKX/99dcD/uPjxo0Dw4jvfP/9738H/DfbA+5Kw+190jGqV6qHi4iQ0CuJiO cj5D+nxlog55PXaG0NykRFkxPBp67JLIrxc095Leqa7C5KuVzGhfY8vgKhPMjNDe6neu0pcw2LVBo9b/q4vWw

CTRY77n9nn+B7/DVHiSU8KU4bks2K2HMqyEnD8mkDvP6+9vIsieCjWCkvLCwMZjsIhYgpDS/PHITVCoTeG0s Wi7v/nBIrglxhjTqLHWkJCTRREUGl3irtLsB/Pxy5yCOtOly/yoPU3MAP5ubTHjLXsChJo+dNH0f7JtBsseOnumb Ja/hrjhJLeJJBF5J1g31Ol+qt3D2UXjDhrlW7ucBTb1yvov1ZEqHBb59yq9UKu93u8lpiYqK/X0sIIKU0PH1NaXDP WOK+6CfESj9yIf90oSqactaKRL3d/Wtc29Xcgoc3luKlmYO8yrJCEN4osol66fHOfz/UaegCXX6+ptEOc7Mdhlg NYIQqaGJUSPVByfdHeZDyI3YP5mYJlB9wuDc43mzqOoqCVtMovQ4ArmuOIVaNF2cMxDObjnqsLcunDcC52i YkNNmRFq8L2LohN25e+PxE0Dfq4R67R0Tgk1Le1NSEp59+Gv/85z9RW+t5NOxwSJeMJXzDW6VBaNFfefdA OdziQpYsMf85FYBJA7ujcHRPLudqdcP1inBKLGYd0aeU8A9vFdmUeJ1oJb18YypS4r2LlQgUgbTKi6UgnJOXjZV fnMCyaQMCXgFSCndLcHysBvvP1wmWVQ+UH3Aoq1+K0VEKTHIDvbUFpRdMKDCmYrdINWd2zckzpuLg+T po1TFYefdAWFucaLC2IE6nxsHKNgu1XBICb5EbN6F4ppEwdonIQTpthwhPPfUUtm/firfffhuxsbF45513sGzZ MvTo0QPvvvtuoNtIXMMbpUFs0V+x9TgW3GZEQU6ay+sFxjQU35aDtXvOcq+J+emZLXY89fERLPrkKOZt2I/5 7x3EvA37seiTo3j64yMwW9qsI89O7os1hcOwtmg4iscbYdCpOWWB/R12YiMIOeQUWXbc8emaqMeLMwYi 35jq8jqbfYXvTx7KNHRKFns5zBY7Tl9uwImgeszJy+ZkDGjz1V1XchY3d08U7RtvMVvsqKhuRGllHSquNEp+Z5K hzZI5JDMFOV07YexNXTAsK8XlmkCWQvd2XASDilBgylsS9Vqs3XMWc/KzUWB0XXP4awH7/xc+P4HO8Tos+u Qo0hJ0yE6Lxwufn8CiT466bOgC8WyVjJtGWwuKxxuxpnAY3po91GUtA/x/ppEyduXwRvYJ//DJUv7ZZ5/h3Xff xbhx4zBnzhwUFBTAaDQiKysL7733HmbPnh3odhLwTmkQW/Qtdgfmrv8BH/12FJ66k8FPdc3QqWNw9Gczvj 9Xizdm5cLW6kSvtHh0T9ILLphSCsX+83Wos7R4BJ0WGFOxeX4e/nWsysNi1hEXK8J7fLVaZabG48/3Drmep1y vQUq8Z57yUKah81eBU1Kghw2iW7293G+Lnr/WvGAGukWKhbo95BYPNGkJOgzLSkHx+6V4aEwvPDohB04 ng5gYFXSaGFSZrR5pcW2tTpeNabCerdy4qW2ylylOh9LKOo+id6yc+ftMI2XsSkGW/NDik1J+9epV9OrVC0Cb/ zibAjE/Px+/+93vAtc6wgWhsvYGnRpz87MxulcqzM12VFxpRFq8dEU4i92Bc7UWvLfvPHIzUwSrjG2eP1p0Mp D67rn52Vi8+ajHUeXu8los23qMq+DJpyMuVoT3+KPldk3UuyjhrOXH3YczVGno/FHgpAr0AHBJa8oG0fmz8Q 2Uq00w/KjNFjuuyljtQrXpbw+5xQMNX6Ze//o0Xv/6NNYUDsO8DftFP8P6mDdYWyCdi0X62cr5acvNJw4ngy WfHfPl3sT+vXhKP7+fqVwb6ix2lFbWhc3PPBzB7x0dn5TyXr164ezZs8jMzESfPn3wz3/+EyNGjMBnn32G5OT kADeRANp2q3/8/DieuONmgAF2l9fAoFNj1axcrCs565EH/NnJfSW/L1YTI5gCkUVKKZBSKKTKSAv9XkddrAjvC ZQlUs7yE4rMDv4ocN6kNWUVHH82vpFqzWOfl1uUTAy9Tg2zJfhtbC+5xQONu0ylGJRl6FEyZsWuUWLdlZtP HE4Gu8vF5ez5Kf38fqZybTA3t3AbmHBYpyNV9iOBYAXn+qSUz5kzB4cPH8bYsWOxcOFCTJ06FatXr0ZLSwtee +01vxtFuGK22PH8ljLcNyITq7b9iMGZySjK64nO8Tq89p9THjv5XadrMKnSJDnxHf3ZjOLxRnTpFlu3Zg+FXqvG wco6rN1zFsOyUjilQGjgSSkUcvDTX3X0xYrwjkBYIpVafkKhwK28eyAuXLUgVquGRh2DuiY7dOoYZHSOk/x9p WINWQXH341vJPpK85/j4lxk0eJpecZUbD1ShSMXTCFRaCgftTDuMiWXoYc/Zr2VeaUy7j6fsKfOuRnJAIAGme qrzXaH34qZNylEw2GdjkTZjwSC6dLjk1L++9//nvv/hAkTcPLkSRw4cABGoxGDBg3yq0GEJzWNdvTpnoh1JWd RUI6L7SevAADWFA4TiGgH2gI6v3ikwMO3O8+Yinn52VBBhXf2nPHwlVtbNBw9OxuQZNBJDryXZw7C0wIW oRtTpAdkz7R4fPDgrUg2aAX9eglCjEBYIiPF8INIasbeiloMvjEZK7Yec5FjucldSYEeVsH5x/eVfm98I9FXmv8c1+4 5i1WzcgHARTHnK3kWuyNkCk1HSXfoD2I5wB/ZWIphWSkuY9ZbmeePDb6ibWt1Qq9Vw2Rp4Z4R+937z9d 5nDqvKRwmeQ9xOjWKN5b6pZh5m0I01NbpSJT9cBNslx6vlPJvv/0WtbW1mDJlCvfau+++iyVLlqCpqQnTp0/ HG2+8gdjYWJ8bFMmEK5dovbVF0C1EqNAPi8XuQH2zHX+6VuLYbG1Bl4RY6DQxYBgGf/q3p4W9pLwWapU Kb8zKVTTwhCxCgLhlI9+Yii+OVnH3QcEihBLc5e7VewajydaK+mbvLZGRYPkxW+w4f9WCFocTy7Z6+qzKTe5S yUHvCKsbdEvWoabQjNV6HGUNu8JDneJ0ai6f0g6m5BQk6NQw6DZINWtH+czAM1hQ0Q6uTQXZaPJZ/dsxl 7Sy4ptD3SI7jNgcmSwue23zURRZLL5hET2DG5KThYKUpIIqZ++mKThODL8ouCaYQBYI3R3I7Kt5RXU+DbdjxS ilfvnw5xo0bxynlR48exbx581BUVIR+/frhlVdeQY8ePbB06VKfGxSphDMCOVGvRZXZ6vF6rCbGwxlQp1XDyTB Qq1SwtTJotLUiK9WAn03N+MvXP6KkvFbSwi4X9W7QqTEoIxlVZiuaWxxIjNMiOy1e9mgy35iKIredPwWLEFK YLXbOkqZSqVzcq5ZPGwCVCm0J870gGJYfbxUuk6UFb2w/jbl52SitNKF4vNHFksfep/vkzv5Oo60Fy6cNwPNb vgSth90DPB8pOaEI9fzo/hwtdoeL4rWmcJhgbEs4its7avYKs8UOk6UFTfZWNNkdSNRroI5RQaeOga3ViUZbK ycvYoWApPouySB8/YrP2k6eiscb8e635zyU6t0Crmo1jXaPNVHsBIYtZHTXqt2CbfZFMeOfrlRUN4rGZQHBsU5 LVQqnOAlXgm3Y8UopP3ToEFasWMH9/cEHH2DkyJH4+9//DgC48cYbsWTJknanlle7/HbneB2S4zwFseyiGW

sLh+GNb8pdhJhVgAvXfc+VLZ4/zojSShMAaQs7IB71LhVYKIVGWg9VY+tRz1SIAAWLEMJcNDXj6Y+OuARa8V ORPbv5KJc5yBsFJ9CWH18UriZ7K0rKa/GbUT0F5Ym9zybb9cnd/XcM16yHz07ui2a7l+i+y0K+0gl6DZpsrfjxcg OnCPHxd36U2ux444vLJ9TH7R01e0WVqRnnr1rwxvbTLgptQU4aim8zYs76H2QLAXnbd2aL/dqc0fZ7UkkH3 NcdIUWLfwLz7F19YW91cnJWcaVR0IrN4o9iFmrrtJJK4RQncZ1gu/R4VTyorq4OXbt25f7euXMnJk2axP09fPh wXLhwwa8GRSKBKPQhhlBS/ipTM4o3luL213Zixlt7Memvu7nKhHwYBnjzm3IPS8Cea4VD5uZnc21845vT3N /8ssZCxMdqBAfe3Pxszq+dDyu8l+uvW/P5xUOaW9qsWGKTWEcNFiGE4RYJt8wHJbxxXVJeywVkeVNog7X6j nErniVVKEusalavhT+arslB9yS9oDyx95kUd90txP13LHYHFn1yFH/8/ASy0+LROz0hJL7SrEzH6dR48sPDGP/nn bhw1aLo5M0bLrrNgbf/eSce3liKi6Zmri1iz/Hh8a5F0Pjvhfq4XWjtM0jUKB5vR0HonvixurHdFWMxW+zY8e MVD4UcaLNSr/6mHO89MJIrxLP/fJ2gvHi77l6at7rMGUqMTvxiihZ7AhOrUWNIZgpn0be2SH+3UsVMaH7xd o7yF6XuGKzsh2KuiWTYTZMQgZhjvLKUd+3aFWfPnkVGRgbsdjsOHjyIZcuWce83NDRAq21/jv/BOq4Qs7LNv 82IA+fruNcsdgf+e80+vDt3BFb+6yR3/cAbkvD616cFv9s9NRr/bylfuTxjKnSaGOi1arz/wEiYmlu4I/WhIjnNgbb JtqK6EQ4n42HxoGARwhuUpvzjL7renLgozZARrBLc7KmXvdUpKIPsfdodbfcXKcGpLO6bBG+UH1++n8XdQir2 HC12B4ZlpUTEcbv72gH0tDGagWm0I71TrOjY3n26BkWje2Lehv0up19V14w6UtZrPu4VrNmAURY54xN/3fH GOI3TaMfeM7Wia2iBQsUsElKzApERZxNNBDv1qVdK+V133YWFCxfi5ZdfxubNm2EwGFBQUMC9f+TIEfTu3d uvBkUiwfJDFVt4HAzjUgAEaJsIfvW3b/HvRwoAFdBod6C+WVlqNPe/pbIVzMvPhsPJ4MkPD3tkbcnvLbw7ZD E1twgeK1KwC0ENSIP+uS+63iwechky5I50F0/pB7OM/Im1x6BTI9+YiiuNNsnPN11LyebLomm22FHdYIOpuQ XxOjXiYzVIjhMPjvMG902CN8qPL9/Px30TIvQckwyImON297VD6rQx2txZxNyL6q0tshs19n1+waszV5rw4uc nOKVUbt3VaWK4YnlCpzFygZr8dYdVtJZsKcPN3RO5GI8UgxaZ17KRsdRbWyTX0GW/7C/7DCMINStARjNfCO amySulfMWKFbj77rsxduxYJCQkYMOGDdDprjdi7dq1uOOOO/xuVKQRDKXSmwlgLAadGg4Az25qixJfWzRc8 jfcF0v2b76v3PxxRjgYBi2tTpReMOHoz2as23PW4zi6pLwWC8YZZX9PyHJHRTUIb1Ca8s/dbziQi4eUfO4+XYM LVy2y3yHUHrPFjiWfHkNRXjbitGpFn/d20RTzx394fA6yOhv8DgR13yR4o/z48v3uKNl8RUpaQve1wxs/50hGy sqbqNfiapOOOw5/beKvd3yIVC5u4IuyS1xMySO353iMQ6IATaF1p0dyHJZM7Y9FnxyRPMVI1GsFM/7EamJEY xnciaTTLzKa+Uaw5hivlPK0tDTs2rULZrMZCQkJUKtdF5UPP/wQCQnCUdTRjLdKpZJsDEqtgXxenjklz/LSNjEMg 3xjKvaluKHwJ4iCnDRUN1y3zFnsDpRW1mFIRrJLAOb7D4zEX74SdonZe6YWBTlpgpMJ//fMzS0eJcypqAahFL nF+HK91SOHr7eLh5SMKindbmt14nhVvdfKaE2jHV+fqMbeilq8MSsXBcY0waqB/M97s2heD3bz9McHgCmD euCuAd0UyZ1YH7lvErxVfuRoT5Y797Uj0K4+4YBv5XXP/nW+tglZqfGobrCJu3eIBOKyr7FKae/0BEU5vHedrsF vx/b2Gles4vzc5L5YPLkfztY2ITs1Ht2T9IJj8nK9FYs+OSIbsMyXR/cN1picNDyYL1wIm08kuYyQ0Syy8Kl4UFJSku DrnTt39qsxkYwvfqgGnRr/M7YX7ujXFTWNdlhbHbDYHUiO06JzvA4GnVo0+FHoSLhbot5lktPFxODJiX2gwim XRdg9/SArXAadGiN6dkaDtQVxOjUOVppcFPIxOWmSR9Fr95zF5vI5WLH1uIcVjj9JWIscuPvtvdz7fEsDCTghh9 giUZCThuXT+mP/uTqPcevN4iGV/osBFJVuj9XE+KSMsouxxe7AwxtLsWpWLpxgJD/PVv88X2txifE4VVWP5dM GuPxOW2o36RM4JVY4KUuo+yaBbzVcMM4lvVaNpDjfN92hsNyJbTj4ryfFaREfq0GjtdWv/OL8tcPWKp6xA4i ODQdr5RXzj5/QNx1LpvRDr7R4xAAuSm5BThrm5Wdj/nsHudcMOjWyUg1Qx6jw7twR6ByvQ4vDiTNXGpEa r+P6rs5ih7m5hSsyxF87956pxS1ZKYLW6+p6K1qdTnxy4CfRvP0XTc04V9MkG7DsXnTIVyU2nBtPobFPRrPIwS elvKPijR+qQafGm/cPhUEXA5OlBau/OeGRGmpd0XCX1FD89/hWbaBN4Jvs18v+GnRqpCfF4uUvT2JwZiKK8 nrC1upEUpwW6Z1icclkxfo5w5EaH+siXPz2d0vUY0TPzmiytSApTge7w4kWh3RBooumZhTl9cRvx/WGubmF O7JjJ8l8Yyr2nol+f0kivEgtEp0NOgzNTPFp8ZDy5dzx4xV8caQKu8vlS7eXXjBJpkwTaw9/MRY6Au+V5mnJu2h qxsJPjrq0uSAnDStnDPRwRVFyAidnhVPi7+qulFjsDhy5YMLsEZl+u8cE23IntOH4Rd/0thSTm8s8FE73DZMvAZ ns2mG22KPeVYAdY2L+8V+fqEasJgZP39kHdw3sjiKegny53gqGl2/XoFNjbeEwLP30mMuJL2voWfnFCSybNgC 90xNQWlmHeRv2C7Zp7Z6z+PyRfCzeXOaRXnROXjb+8tWPHhtYFna8zxqRKXnffLnxV4kNl8uIXHAprc/hh5Ty AML3E5ubn40qc1s0+OdHqwRTQwHA4in9sOiTo9zrQlZtVuD5BYTm5mfjha3Hsbu8FttPXnH57jxjKnIzUzBjyA 3onZ7ApV0yN9thiNUgRqWCJkaF1GtFG/iCWjzeKKmM7L9W2GTVrFy8t++8x0ajcHRPj9LAQHT5SxKRgdgm2 B9fPilfzvROsZyVWUnpduB6yrSpg7pjSGYKgOtpzpTk1+YXvRmTk8ZtXFlrloNhBHOA7z5dg2c2HfXY6Crxx5ez winxd+2dnhBUy1qwLHdiG46buydi0aajLoGHwQjIbA+uAuwYk/KPz+6SgGc3HRW0POcZU7IEBs9N7os3vyn3 cMFk+z03M4Xrb6mxbbE7YG91YkhmCua4+Xgv/PgI7huRiQZrK0or6zxkkh3vcqdjeq3a4/PuedLF5N6dclyDjp

oz P9 og pTy A8K1 Ub A5IAIIKLt C2s D47 uS+++v0YNN la PRYed wGxtjo 5H3KpCZENykx LEK60x7dCLP1 lf84KZ9CpoYlRYeGkPqiut7 lUUbwlK4VTuIUsfD1TDdCoYzD9zRLKR05ELPXWFg8/WNYdpNV53YQnNMYzOsfh38cuexyd5xlTcfB8HTrFagCVStYS5U11TCXVd5VmOsozpqK6wYZhWSmyfSQFK8fBDqYMxveLbTjc59NgBmRGu6sAO8ak/OPl1qdn7+qLqYO6o7nFiWc2lYleNzevTXmvabTL