Damandeep Singh  
00213207218

CSE- 1

PYTHON

LAB PROGRAM

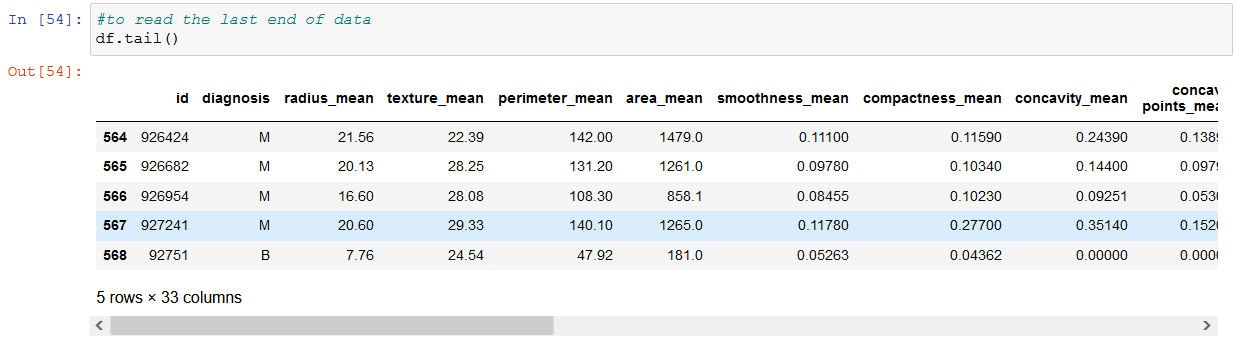
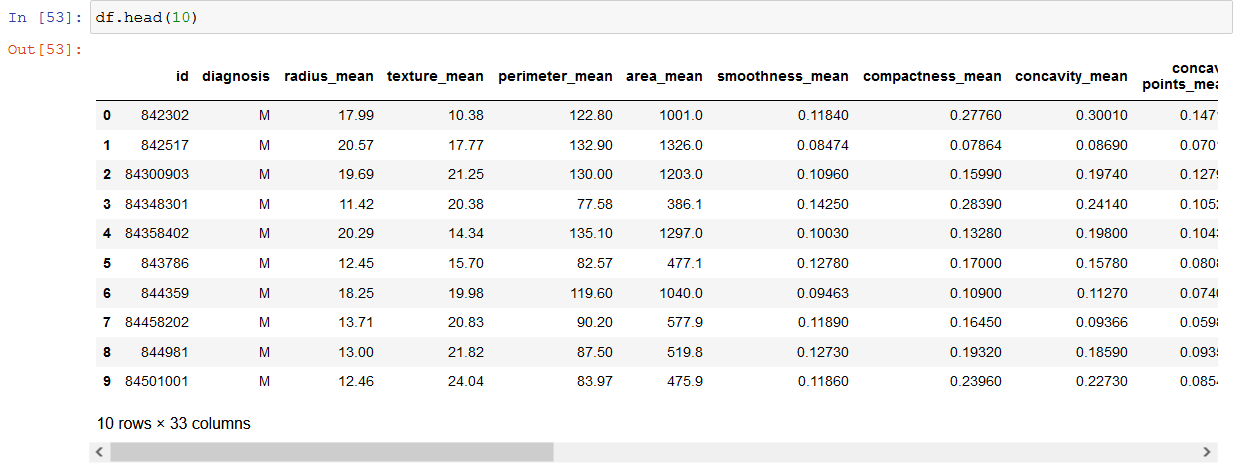
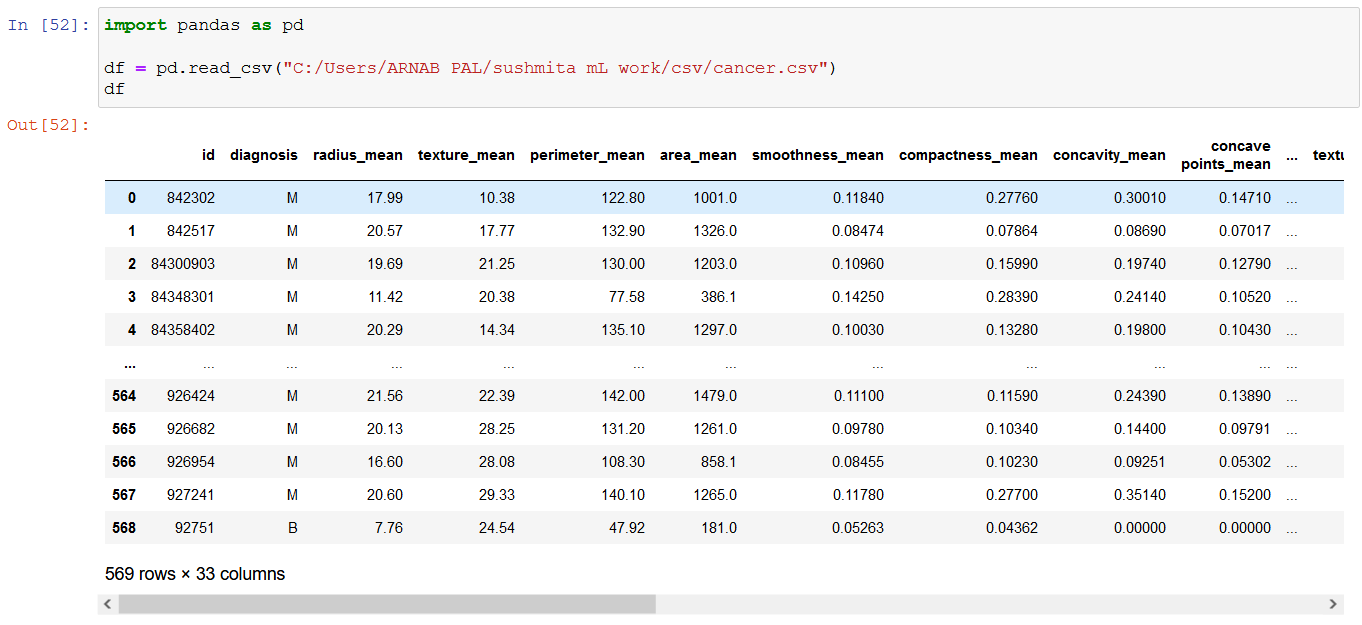
Submission -2

Github link : [LAB Program - 2](https://github.com/sush096/ML-Assignments/blob/main/LAB%20PROGRAM%20-2.ipynb)

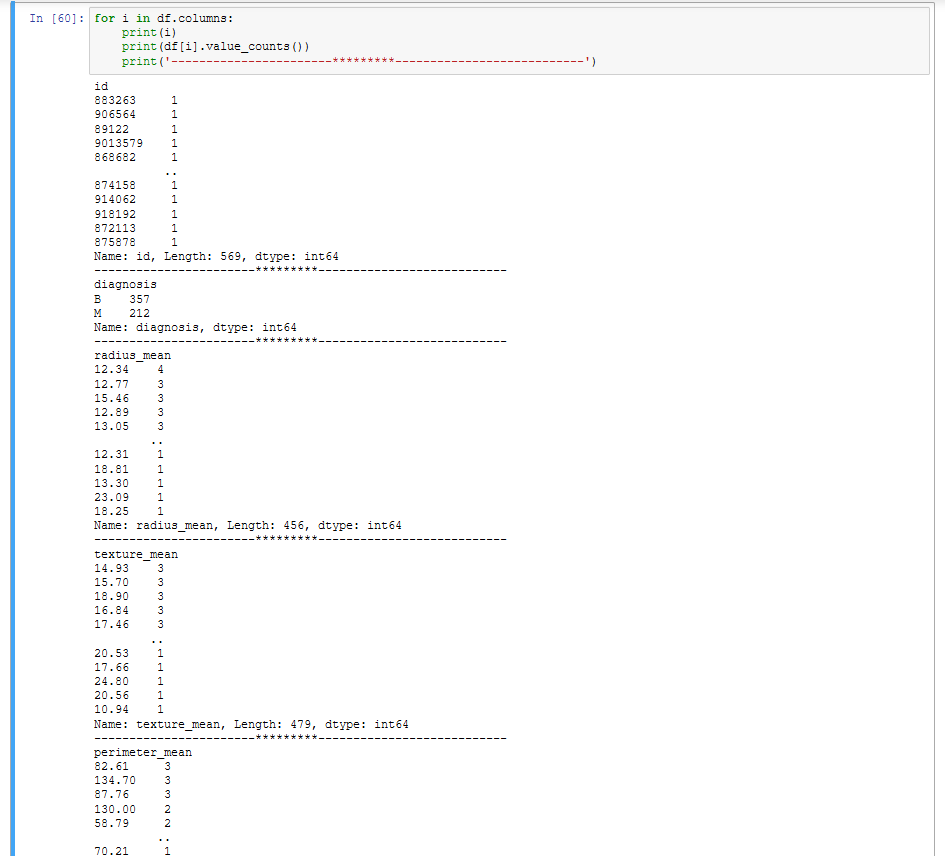
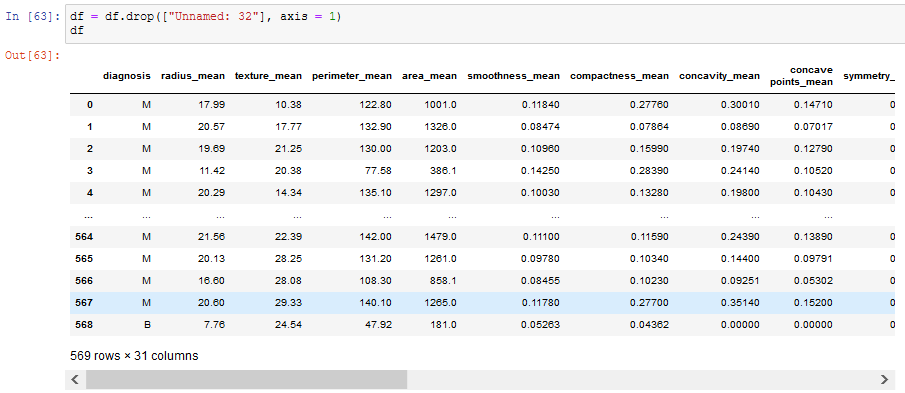
**PROBLEM STATEMENT** - Implementation of decision tree on a breast cancer dataset using sklearn in python.

**Program Code Snippet**

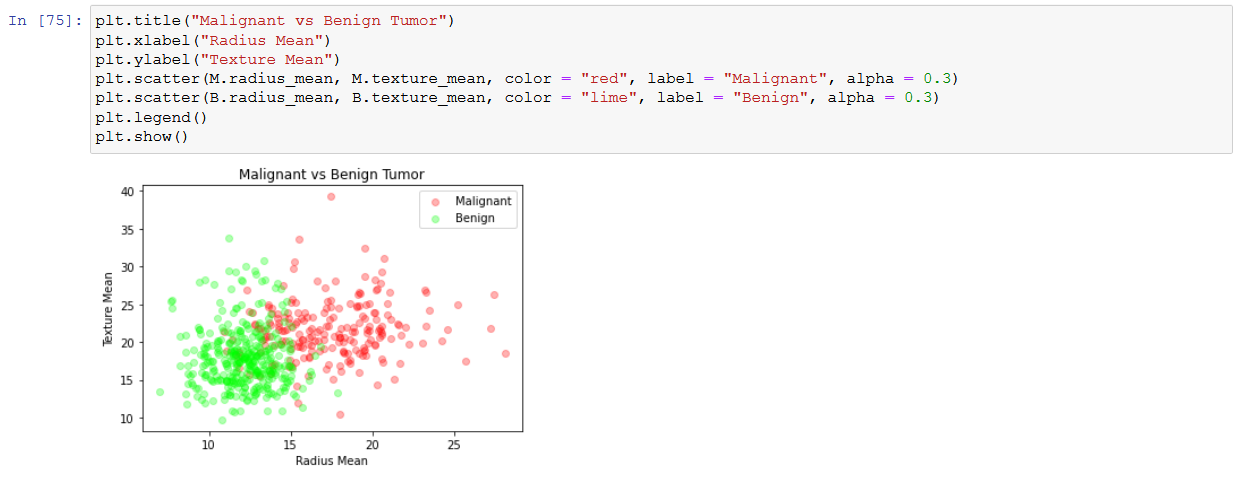
**Loading Dataset**



**Preprocessing/Cleaning of dataset**

**Visualization**



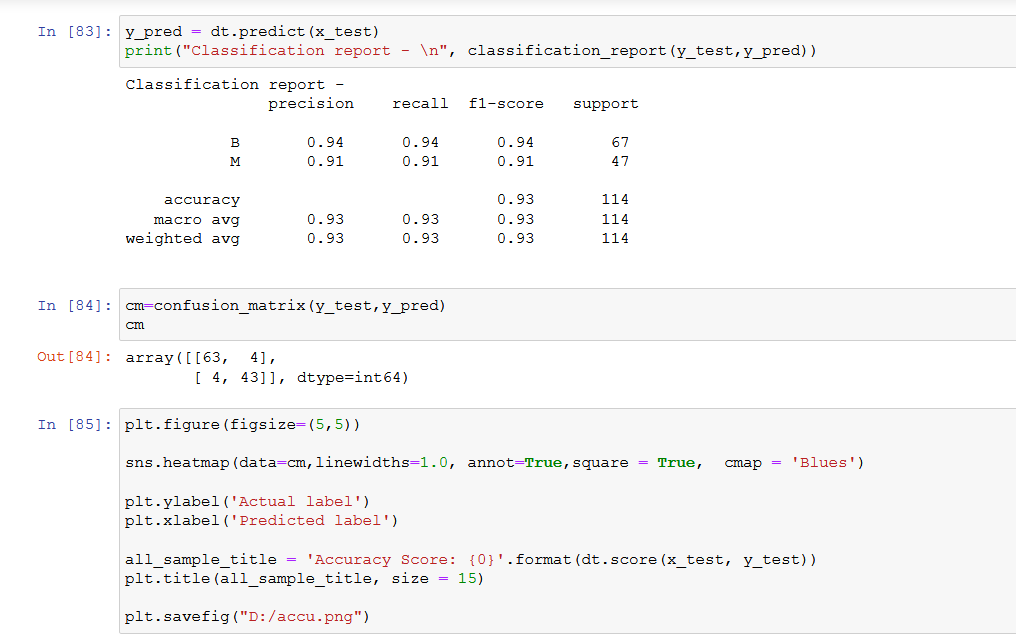
**ML algorithm implementation of prediction or comparison**

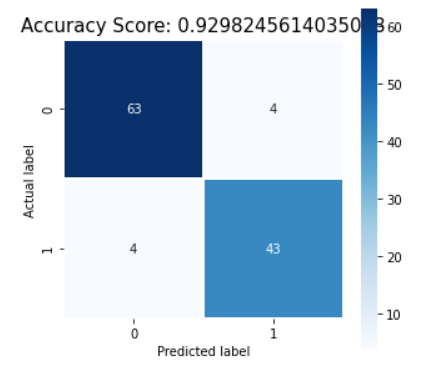
Decision tree models where the target variable uses a discrete set of values are classified as Classification Trees. In these trees, each node, or leaf, represent class labels while the branches represent conjunctions of features leading to class labels.

A decision tree where the target variable takes a continuous value, usually numbers, are called Regression Trees. The two types are commonly referred to together at CART (Classification and Regression Tree).



**ROC/AUC/Confusion matrix**





**Final graph![A screen shot of a computer

Description automatically generated with medium confidence](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAACJ4AAAfaCAYAAAAoKCTKAACAAElEQVR42uzdd7RW1Z0/4BuTcWJiNBpLNGOLXeyiIhFRQQWRJkqRKkpvUqUo0nuXfqneSxUVrHRQEDSTjIkzGruxYtRYZ9b89/v+9jnAHVCiJkHkyvOs9Vn3fc973n3O2ff987P2LigAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAL7/Dko5VvZofupnBwAAAAAAAACUZvvtv99+3a8qf87/3Fzrqs+byx5Js5qVPr/0gjM+OfCAA2r7CQIAAAAAAAAApdUJt9a++sP/fnpxyJ7NZ5sXxlGHH/K/6X/wEz9DAAAAAAAAAKDUOXD//U8f3L7xfyuCfDc597TjP03/hsP9EgEAAAAAAACAUufAA/c/Y0iHJnukePLEnKHx+VOLYvpd7faK0sf7jxd97TmPTr4rbm9eJwZ3bBRrZwwqOb5+1uCYM6hTDO3YJIqHdIl318yJ1jdeEwuGd4s/LZucn3PKcUfH/GFd4+n5o+KjjfPjgXG9o2hI5zj4wAPiz8sL83POO+0ExRMAAAAAAAAAoHTasXjy4kNT4rZGNaJPixvj+aWTYmSXZtGtae1oVO3y/LMON12Xf9ak+hXx2mPT4/5xvaP9TdWiT8u68eqj02NCzxb56xGdm8bLD0+LQe0b5uWKW2tXjv+8/+6oV6VCLB3fOyqXOzs/t+ql58cbK2bG5uKRsWRsz50KHyun9Y+O6Xqt61aNrk1qRd9W9aPHzdfHJ0/Oj+Gdm8WdrepF8zTue+vmxt29WsYd6bpDOjWODzcUx1Xlz42B6dpVL70gv6/tY366eWH8buGYmNa3bX6f84Z1zY8XD+0SRduyaGT3+OCJ4pLv1Lry4nSPM9J1F6TnarbLMk3/tg22FU+qxOJRPeLDbd8/+bij87F3vId1MwdHu/rXlrxXPAEAAAAAAAAASq0diyeF/drHfywelxcishU6Ojeumb/eeM+wmDvotujR/Pp47bHCvFwxe0DHqFzunHwFk+ycrJjRtUnNvKhx6fln5CWPrPjx7wtGx5UXnZWfkxVPPkvHh3RsnL/fdM+IGNvj1ri+0iXx5xUzvlQ8yfLGyplxyTmn5seycsmWtXOjwvllos5V5aNahQvi94vGRPdmtaN2pey6p+fFkzqVy+fnT+zdKlYXDigZc/htTaPyxefE7xaMSc83r+T47xeNjd8vHJPnmXvH5c+y/bMql56Xl1uyY0M7NdnpHp97YGK61iXx/vqi/Hn/umFebCoaETdsu/5b6d7fWTN7p6JJVlLJzlM8AQAAAAAAAABKvR2LJ0/MHhqzB3aKTzctyFfwuOGq8vHu2rnRtn7VWDV9QPS8pU68vrww7h19e8zs3yHa1qsaD0+8My9Q/HHJhPz8jzfOj8vLnpkfWzGtf5Qtc2LJ1jPbiyfbV0LJSitZSaRXixtLCiw7Fk+y1UHeWjUrLrugTEnx5IPHi/IVVz5J9/jyQ1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