```
 1: import even_samples
 2: import cifar_costf
 3: import numpy as np
 4: import keras
 5:
 6: # (x_train, y_train), (x_test, y_test) = keras.datasets.cifar10.load_data()
 7: # x_train = x_train.astype("float32") / 255
 8: # x_test = x_test.astype("float32") / 255
 9: # num_classes = 10
10: # y_train = keras.utils.to_categorical(y_train, num_classes)
11: # y_test = keras.utils.to_categorical(y_test, num_classes)
12:
13: (x_train, y_train), (x_test, y_test)= even_samples.even_sample_categories(1000)
14: print(cifar_costf.costf(np.array([128, 0.001, 0.9, 0.999, 40]), (x_train,y_train), (x_test,y_test)))
```