

UNIVERSITY OF DUBLIN

SCHOOL OF DISTANCE EDUCATION

TRINITY COLLEGE

with the following short forms:

with the following short forms: `LIST`, `PAC` and `NODE` (repeated items are allowed).

```
File: /usr/src/sys/dev/dac/icl/_____.c class interface NODE[ICL]
```

Qs 6

```

In [10]: # Linear regression for the Boston housing data
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import r2_score

# Load the Boston housing data
boston = pd.read_csv('boston_housing.csv')

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(boston[['lstat', 'medv']], boston['medv'], test_size=0.2, random_state=42)

# Fit a linear regression model
model = LinearRegression()
model.fit(X_train, y_train)

# Evaluate the model's performance
r2_score = r2_score(y_test, model.predict(X_test))
print("R-squared value: ", r2_score)

```

Linear regression for the Boston housing data

R-squared value: 0.74

as follows:

```

is_array_empty: ARRAY1 is
  require
    not is_empty

```

```

index:=1
inord(root)

```

```

result:=clone(arr_ord;

```

```

end;

```