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In [94]: from sklearn.ensemble import RandomForestRegressor

forest_reg = RandomForestRegressor(n_estimators=100, random_state=42)
forest_reg.fit(housing_prepared, housing_labels)
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Out[94]: RandomForestRegressor(random_state=42)
```

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In [95]: housing_predictions = forest_reg.predict(housing_prepared)
forest_mse = mean_squared_error(housing_labels, housing_predictions)
forest_rmse = np.sqrt(forest_mse)
forest_rmse
```

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Out[95]: 18603.515021376355
```

```
In [96]: from sklearn.model_selection import cross_val_score

forest_scores = cross_val_score(forest_reg, housing_prepared, housing_labels,
                                scoring="neg_mean_squared_error", cv=10)
forest_rmse_scores = np.sqrt(-forest_scores)
display_scores(forest_rmse_scores)
```

```
Scores: [49519.80364233 47461.9115823 50029.02762854 52325.28068953
 49308.39426421 53446.37892622 48634.8036574 47585.73832311
 53490.10699751 50021.5852922 ]
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Mean: 50182.303100336096
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Standard deviation: 2097.0810550985693
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