

```
import pandas as pd
import numpy as np

data = np.array([[0,2],[1,3],[2,12],[5,147]])
data

array([[ 0,  2],
       [ 1,  3],
       [ 2, 12],
       [ 5, 147]])
```

```
n = len(data)
n
```

```
↳ 4
```

```
def interpolate(f: list,x: int,n: int):
    ans=0.0
    for i in range(n):
        yi = f[i][1]
        for j in range(n):
            if j != i:
                yi = yi*(x-f[j][0])/(f[i][0]-f[j][0])
        ans+=yi
    return ans
```

```
y = interpolate(data,3,n)
y
```

```
35.0
```

Start coding or [generate](#) with AI.