

```
1 import numpy as np
2
3 def Source_matrix(y):
4     N = len(y)
5     allclasses = np.unique(y)
6     B = np.zeros((N, len(allclasses)))
7     for i in range(N):
8         class_value = int(y[i])
9         B[i][class_value] = 1
10    return B
```