

```

1  #include "NotFoundError.h"
2
3  #include <iostream>
4  #include <string>
5  using namespace std;
6
7  int getProductID(const int [], const string [], int, const string);
8
9  int main()
10 {
11     int productIds[] = {4, 5, 8, 10, 13};
12     string products[] = {"computer", "flash drive", "mouse", "printer", "camera"};
13     try{
14         cout << getProductID(productIds, products, 5, "mouse") << endl;
15         cout << getProductID(productIds, products, 5, "camera") << endl;
16         cout << getProductID(productIds, products, 5, "laptop") << endl;
17     }
18     catch(exception &e){
19         cout << e.what() << endl;
20     }
21
22     return 0;
23 }
24
25 int getProductID(const int ids[], const string names[], int numProducts, const string target){
26
27     ProductNotFoundException NFE;
28
29     for (int i = 0; i < numProducts; i++)
30     {
31         if (names[i] == target)
32             return ids[i];
33     }
34     throw NFE;
35
36 }

```

```

1  #include <exception>
2  using namespace std;
3
4  class ProductNotFoundException : public exception{
5      public:
6          ProductNotFoundException(){};
7          virtual const char* what() const throw(){
8              return "The product is not found.";
9          }
10 };

```

```

8
13
The product is not found.

```