

Input

```
#include <iostream>
using namespace std;
int main () {
    cout << "Love" << endl;
    return 0;
}
```

Processing

Compiler

Output

```
41 00 07 50 00 0A 00
4C 6F 76 65 00 zz
```

**(a)** A compiler that translates directly into machine language.

```
#include <iostream>
using namespace std;
int main () {
    cout << "Love" << endl;
    return 0;
}
```

Compiler

```
STRO msg,d
CHARO '\n',i
STOP
msg: .ASCII"Love\x00"
.END
```

**(b)** A compiler that translates into assembly language.