

int ConvertInputStringToNumber(std::string input, int base)

```
char symbols[] = {'0','1','2','3','4','5','6','7','8','9','A','B','C','D','E','F'};  
int number = 0;  
std::vector<uint8_t> vec;
```

```
for (int inputIterator = input.length() - 1; inputIterator ≥ 0; inputIterator--)
```

```
    for (int symbolIterator = 0; symbolIterator < sizeof(symbols); symbolIterator++)
```

```
        if (toupper(input[inputIterator]) == symbols[symbolIterator])
```

```
            vec.push_back(symbolIterator);
```

```
for (int i = 0; i < vec.size(); i++)
```

```
    number += (vec[i] * pow(base, i));
```

```
return number;
```