

CS326
Homework #1

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1. (a) `#included` is not a recognized token, so it is detected by the scanner.

```
#included<iostream>

int main()
{
    std::cout << "Hello World" << std::endl;
    return 0;
}
```

- (b) The `cout` statement must be followed by a semicolon, this is a syntax error.

```
#include<iostream>

int main()
{
    std::cout << "Hello World" << std::endl
    return 0;
}
```

- (c) The `main` function should return an `int`, but it is trying to return a `char*`.

```
int main()
{
    char* a = 0;
    return a;
}
```

- (d) The pointer is pointing to the null address, yet the program tries to de-reference it. This causes a dynamic semantic error.

```
int main()
{
    char* a = 0;
    *a = 'a';
    return 0;
}
```
