

1st QUESTION

```
#include <stdio.h>
```

```
int main() {
```

```
    int n, reverse = 0, remainder, original;
```

```
    printf("Enter an integer: ");
```

```
    scanf("%d", &n);
```

```
    original = n;
```

```
    while (n != 0) {
```

```
        remainder = n % 10;
```

```
        reverse = reverse * 10 + remainder;
```

```
        n /= 10;
```

```
    }
```

```
    if (original % 10 == 0) {
```

```
        printf("Reversed number = %d", reverse);
```

```
    while (original % 10 == 0) {
```

```
        printf("0");
```

```
        original /= 10;
```

```
    }
```

```
    } else {
```

```
printf("Reversed number = %d", reverse);
```

```
}
```

```
}
```