

6 Branching Statement Lectures - Week 4 - Branching Statements - Introduction to Programming in C++ - edX - VLC media player

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Computing The Absolute Value

Problem

Write a program that reads from the user an integer, and prints it's absolute value.

Example

Please enter an integer:
-7
|-7| = 7



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Computing The Absolute Value

| <u>Data</u> | <u>Expressions</u> | <u>Control</u> |
|---|--|---|
| <ul style="list-style-type: none">• int• float• double• char• string• bool | <ul style="list-style-type: none">• I/O expressions• Arithmetic expressions• Boolean expressions | <ul style="list-style-type: none">• Sequential Flow• Branching<ul style="list-style-type: none">- if |



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Determining Parity

Problem

Write a program that reads from the user a positive integer, and determines it's parity (even or odd).

Example

Please enter a positive integer:
7
7 is odd



14:48 28:24


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Determining Parity

| <u>Data</u> | <u>Expressions</u> | <u>Control Flow</u> |
|---|--|--|
| <ul style="list-style-type: none">• int• float• double• char• string• bool | <ul style="list-style-type: none">• I/O expressions• Arithmetic expressions• Boolean expressions | <ul style="list-style-type: none">• Sequential• Branching<ul style="list-style-type: none">- if- if-else |



15:29 28:24


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Syntax and Semantics

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```
...  
if(condition)  
...  
else  
...  
...
```



15:36 28:24

15:36 28:24


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Syntax and Semantics

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```
...  
if(condition)  
...  
else  
...  
...  
...  
if(condition) {  
...  
...  
}  
else {  
...  
...  
}  
...
```



17:51 28:24

17:51 28:24

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Boolean Interpretation

```
int main(){  
    int val = 0;  
  
    if(val == 0)  
        cout<<"val is 0"<<endl;  
    else  
        cout<<"val is not 0"<<endl;  
  
    return 0;  
}
```



25:34



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