MA122 -Computer Programming and Apllications

if else statement

|| and && operators

MA122 - Computer Programming and Apllications

Indian Institute of Space Science and Technology

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Lecture 10

MA122 -Computer Programming and Apllications

if else statement

|| and && operators

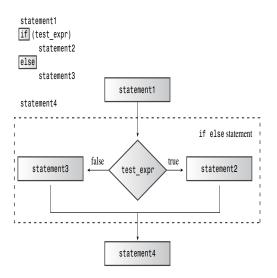
1 if else statement

2 || and && operators

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if else statement





if else

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if else statement

```
1 // ifelse.cpp -- using the if else statement
2 #include <iostream>
3 int main()
  {
4
     char ch;
5
    std::cout << "Type, and I shall repeat.\n";</pre>
6
7
    std::cin.get(ch);
    while (ch != '.')
8
     ſ
9
       if (ch == ' \setminus n')
10
         std::cout << ch; // done if newline</pre>
11
      else
12
         std::cout << ch++; // done otherwise</pre>
13
       //std::cin.get(ch);
14
    }
15
16
17
    return 0;
  }
18
```

if else

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if else statement

|| and && operators

```
1 // ifelse.cpp -- using the if else statement
2 #include <iostream>
3 int main()
  ſ
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         std::cout << ch; // done if newline</pre>
11
      else
12
         std::cout <<ch++; // done otherwise</pre>
13
       std::cin.get(ch);
14
    }
15
  return 0;
16
  }
17
```

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if else statement

|| and && operators

Table 6.1 The Operator			
The Value of expr1 expr2			
	expr1 == true	expr1 == false	
expr2 == true	true	true	
expr2 == false	true	false	

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if else statement

|| and && operators

Table 6.2 The && Operator

The Value of expr1 && expr2			
	expr1 == true	expr1 == false	
expr2 == true	true	false	
expr2 == false	false	false	

OR operator

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if else statement

```
1 // or.cpp -- using the logical OR operator
2 #include <iostream>
3 int main()
4 {
    using namespace std;
5
    cout << "This program may reformat your hard disk\n"
6
    "and destroy all your data.\n"
7
    "Do you wish to continue? <y/n> ";
8
    char ch;
9
    cin >> ch;
10
    if (ch == 'y' || ch == 'Y')
                                          // y or Y
11
     cout << "You were warned!\a\a\n":</pre>
12
    else if (ch == 'n' || ch == 'N') // n or N
13
      cout << "A wise choice ... bye\n";</pre>
14
    else
15
      cout << "That wasn't a y or n! Apparently you "
16
      "can't follow\ninstructions":
17
    return 0; }
18
```

AND operator

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if else statement

```
1 // and.cpp -- using the logical AND operator
2 #include <iostream>
3 const int ArSize = 6;
4 int main()
  ł
5
    using namespace std;
6
    float naaq[ArSize];
7
    cout << "Enter the NAAQs (New Age Awareness
8
        Quotients) "
    << "of\nyour neighbors. Program terminates "
9
    << "when you make\n" << ArSize << " entries "
10
    << "or enter a negative value.\n";
11
12
    int i = 0:
13
    float temp;
14
    cout << "First value: ";</pre>
15
    cin >> temp;
16
                                     ヘロマ ヘヨマ ヘヨマ
```

AND operator

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if else statement

```
while (i < ArSize && temp >= 0) // 2 quitting
1
         criteria
     ł
2
       naaq[i] = temp;
 3
       ++i;
4
       if (i < ArSize)</pre>
                                     // room left in the array
5
            ,
       ł
6
         cout << "Next value: ";</pre>
7
         cin >>temp;
                                 // so get next value
8
       }
9
    }
10
     if (i == 0)
11
       cout << "No data--bye\n";</pre>
12
     else
13
     Ł
14
15
       cout << "Enter your NAAQ: ";</pre>
       float you;
16
```

AND operator

```
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                  cin >> you;
           1
   and
                  int count = 0;
 Apllications
           2
           3
                  for (int j = 0; j < i; j++)</pre>
           4
                    if (naaq[j] > you)
           5
|| and &&
                      ++count;
           6
operators
           7
                  cout << count;
           8
           9
                  cout << " of your neighbors have greater awareness
          10
                        of\n"
                  << "the New Age than you do.\n";
          11
                }
          12
                return 0;
          13
          14 }
```