## Loop notes 2

<ul><li>Created</li></ul>	@January 27, 2023 8:52 PM
■ Date	
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```
#include <iostream>
using namespace std;
int main()
{

   int n, b = 0, l;
   cin >> n;
   while (n > 0)
   {
        l = n % 10;
        b = b * 10 + l;
        n = n / 10;
   }
   n = b;
   cout << n;
}</pre>
```

## Algorithm to reverse a number

Loop notes 2

```
cout << r << " ";
}
else
{
    break;
}
}</pre>
```

Algorithm to find all powers of 2 less then n

}

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
int n, p = 1;
cin >> n;
while (n \% 2 == 0)
   n = n / 2;
}
if (n == 1)
   cout << "YES";
}
else
   cout << "NO";
}
// for (int i = 0; i <= n; i++)
// {
// int r = pow(2, i);
// if (r == n)
//
     {
     cout << "YES";
//
//
        break;
    }
//
// else
// {
//
          cout << "NO";
        break;
//
//
      }
// }
```

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```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
   int n, p = 1;
   bool found = false;
   cin >> n;
   for (int i = 0; i <= n; i++)
        int r = pow(2, i);
       if (r == n)
            found = true;
            break;
        }
   }
   if (found == true)
       cout << "YES";
   }
   else
       cout << "NO";
}
```

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{

   int n, cnt = 0;
   cin >> n; //1
   while (n > 0)
   {
      cnt++; //4
      n = n / 10;
   }
   cout << cnt;
}</pre>
```

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