

# Week 1 Assignment

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Takes a string and a long, N, as arguments.

The function prints the Nth, 2Nth, 3Nth, etc, character in the string.

## Code List?

```
main()
```

GetString

GetN

Output1

Output2

```
PauseAndReturn()
```

Code:

[illegible]

```
// main.cpp, seminar sheet 1 e
```

[illegible]

```
#include <iostream>
```

```
#include<string>
```

[illegible]

```
// declarations
```

[illegible]

```

std::string Getstring(const std::string & caption);

int GetN(const std::string & caption);

void Output1(const std::string & caption, std::string a);

void Output2(const std::string & caption, std::string a,int N);

int PauseAndReturn();

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

//  main()

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX


int main()

{

    std::string caption1 = "Please enter some characters :";


    std::string a = Getstring(caption1);


    std::string caption2 = "Please enter a integer : ";

```

```

int N = GetN(caption2);

std::string caption3 = "The output of it is : ";

std::string caption4 = "Nth of this string is : ";

std::string caption5 = "2Nth of this string is : ";

std::string caption6 = "3Nth of this string is : ";

if (N < a.length())

{

    Output2(caption4,a,N-1);

}

else

{

    std::cout << N << " is larger than the length of the input string" <<
std::endl;

}

if (2*N < a.length())

```

```

{

    Output2(caption5,a,2*N-1);

}

else

{

    std::cout << 2*N <<" is larger than the length of the input string" <<
std::endl;

}


if (3*N < a.length())

{

    Output2(caption6,a,3*N-1);

}

else

{

    std::cout << 3*N << " is larger than the length of the input string" <<
std::endl;

}


Output1(caption3,a);


return PauseAndReturn();

}

```



```

// Output1()

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

void Output1(const std::string & caption, std::string a)

{

    std::cout << caption << a << std::endl;

}

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

// Output2()

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

void Output2(const std::string & caption, std::string a , int N)

{

    std::cout << caption << a[N] << std::endl;

}

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

// PauseAndReturn()

//XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXX

int PauseAndReturn()

{

    char quit = '\\0';

```

[illegible]