

1 Inline code

1.1 Exercise

```
int main() {
    char msg[10];
    char *p;
    char msg2[]= "Hello";

    msg = "Bonjour";
    p = "Bonjour";

    msg = p;
    p = msg;
}
```

1.2 Solution

2 Istinputlisting

2.1 Full

```
#include <cstddef>
```



```
#include <iostream>
#include <string>
int main() {
    static constexpr size_t kColumnCount = 4;
    std::cout << "ASCII-Table" << std::endl;</pre>
    for (size_t i = 32; i < 128; ++i) {</pre>
        std::cout.width(3);
        std::cout.fill('0');
        std::cout << i << " = 0x";
        std::cout.setf(std::ios::hex, std::ios::basefield);
        std::cout.setf(std::ios::uppercase);
        std::cout << i << ": ";
        std::cout.unsetf(std::ios::hex);
        std::cout << static_cast<char>(i) << '\t';</pre>
        if (i % kColumnCount == kColumnCount - 1) {
            std::cout << std::endl;</pre>
        }
    }
    std::cout << std::endl;</pre>
    return 0;
}
```

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2.2 firstline & lastline

```
int main() {
    static constexpr size_t kColumnCount = 4;
    std::cout << "ASCII-Table" << std::endl;</pre>
```

2.3 linerange

```
int main() {
    static constexpr size_t kColumnCount = 4;
    std::cout << "ASCII-Table" << std::endl;</pre>
```



3 Images

3.1 Image drawio

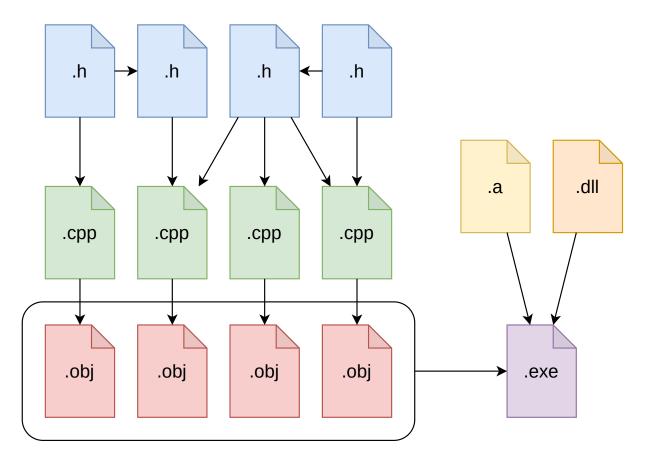


Figure 1: Image description



3.2 Image direct

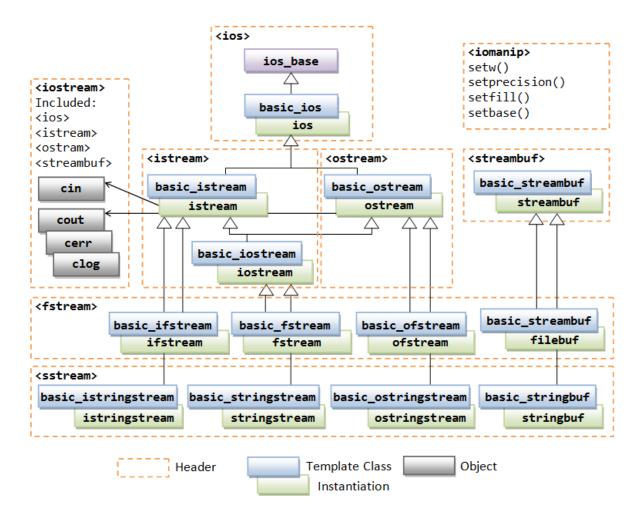


Figure 2: Image description



3.3 Image tikz

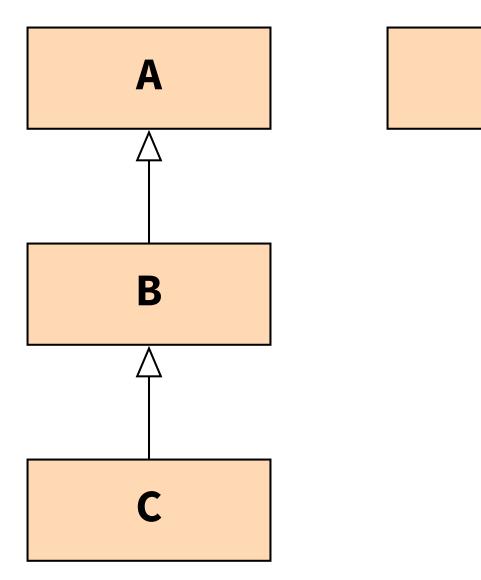


Figure 3: Image description



4 Formulas

Die Multiplikation zweier Matrizen A und B, $R=A\times B$ ist wie folgt definiert: $r_{i,j}=\sum_{k=1}^v a_{i,k}b_{k,j}$, wobei A eine $u\times v$, B eine $v\times w$ und B eine $u\times w$ Matrix sind.

$$\text{Zum Beispiel:} \begin{pmatrix} a_{0,0} & a_{0,1} & a_{0,2} \\ a_{1,0} & a_{1,1} & a_{1,2} \end{pmatrix} \times \begin{pmatrix} b_{0,0} \\ b_{1,0} \\ b_{2,0} \end{pmatrix} = \begin{pmatrix} a_{0,0} \times b_{0,0} + a_{0,1} \times b_{1,0} + a_{0,2} \times b_{2,0} \\ a_{1,0} \times b_{0,0} + a_{1,1} \times b_{1,0} + a_{1,2} \times b_{2,0} \end{pmatrix} = \begin{pmatrix} r_{0,0} \\ r_{1,0} \end{pmatrix}$$