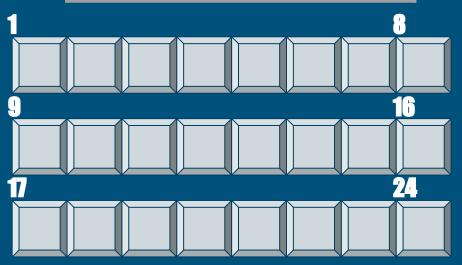
Pointer und Pointer-Magie

(incl. völlig verwirrender Pfeilchen...)

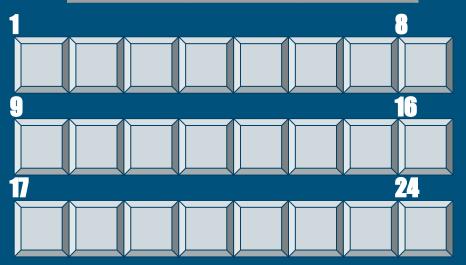
```
#include <iostream>
int main(){
   int a;
  a = 7;
   char c = 12;
   std::cout << c <<
std::endl;
```

| Name | Туре | Address |
|------|------|---------|
| | | |
| | | |



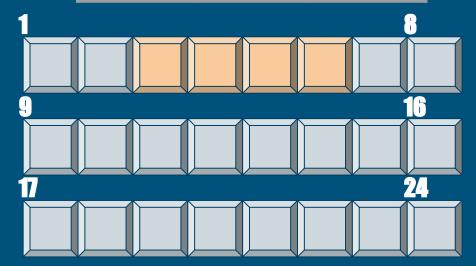
```
#include <iostream>
int main(){
int a;
  a = 7;
   char c = 12;
   std::cout << c <<
std::endl;
```

| Name | Туре | Address |
|------|------|---------|
| | | |
| | | |



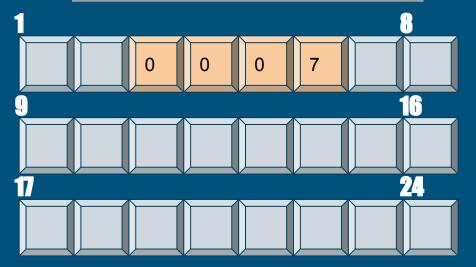
```
#include <iostream>
int main(){
int a;
  a = 7;
   char c = 12;
   std::cout << c <<
std::endl;
```

| Name | Туре | Address |
|------|------|---------|
| а | int | 3 |
| | | |



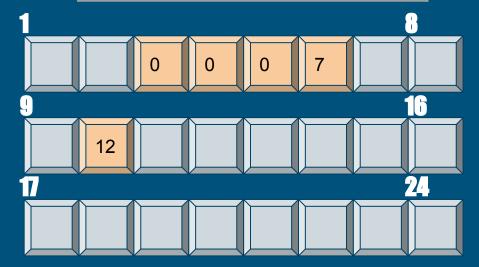
```
#include <iostream>
int main(){
   int a;
  a = 7;
   char c = 12;
   std::cout << c <<
std::endl;
```

| Name | Туре | Address |
|------|------|---------|
| а | int | 3 |
| | | |



```
#include <iostream>
int main(){
   int a;
   a = 7;
 \rightarrow char c = 12;
   std::cout << c <<
std::endl;
```

| Name | Туре | Address |
|------|------|---------|
| а | int | 3 |
| С | char | 12 |



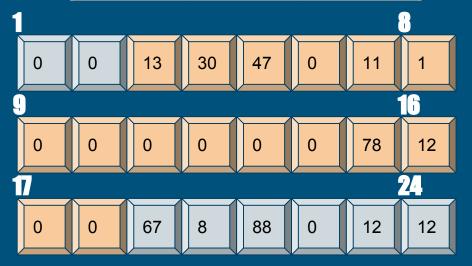
```
Name
                                             Type
                                                       Address
                                             int
                                    a
#include <iostream>
                                             char
                                                       10
int main(){
   int a;
   a = 7;
   char c = 12;
std::cout <<
std::endl;
```

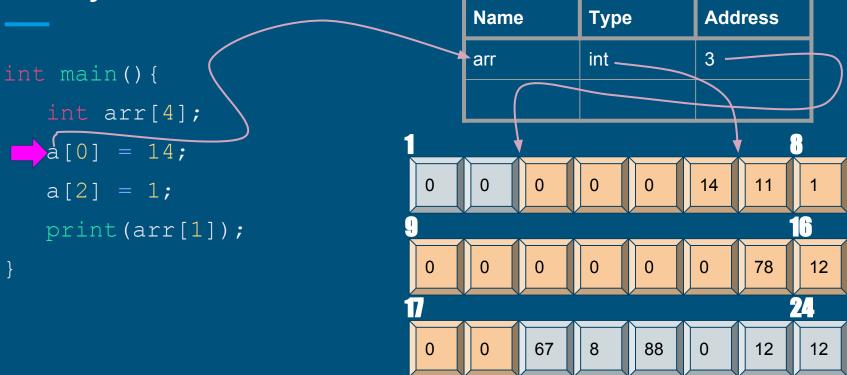
```
int main() {
  int arr[4];
  a[0] = 14;
  a[2] = 1;
  print(arr[1]);
}
```

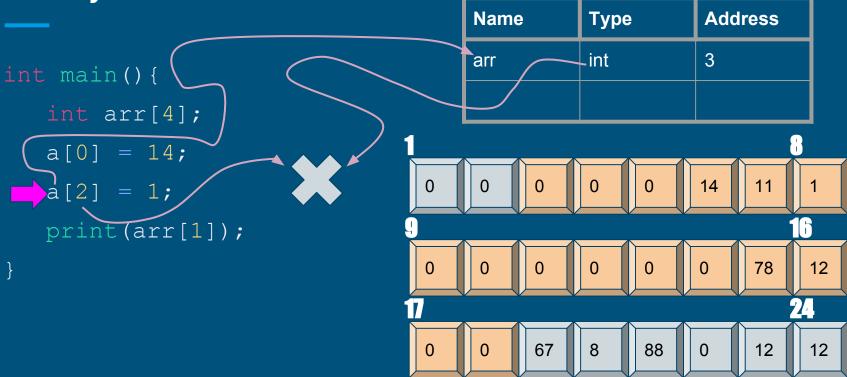
| | Name | Туре | Address | |
|----|------|-------|---------|----|
| | | | | |
| | | | | |
| | | | 8 | |
| 0 | 0 13 | 30 47 | | 1 |
| | | | | |
| 0 | 0 0 | 0 0 | 0 78 | 12 |
| 77 | | | 2/ | |

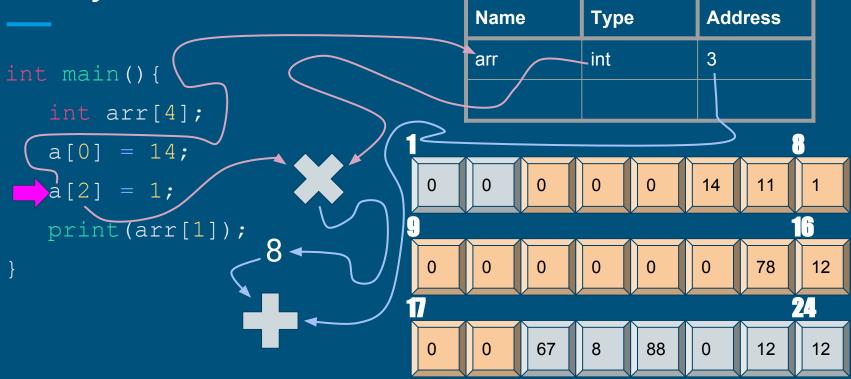
```
int main() {
  int arr[4];
  a[0] = 14;
  a[2] = 1;
  print(arr[1]);
}
```

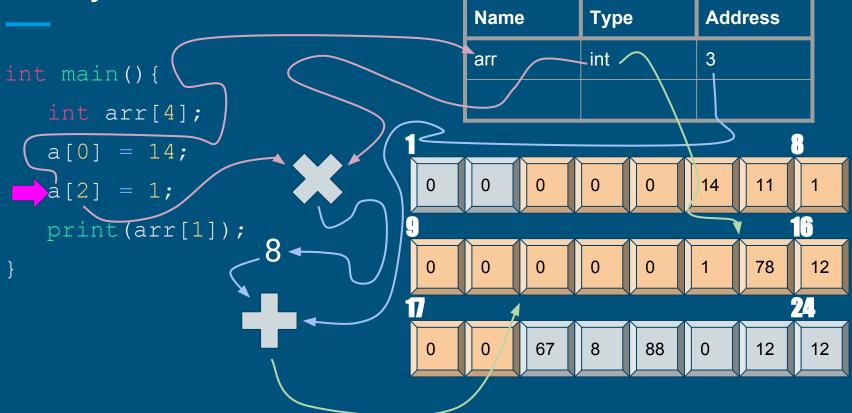
| Name | Туре | Address |
|------|------|---------|
| arr | int | 3 |
| | | |

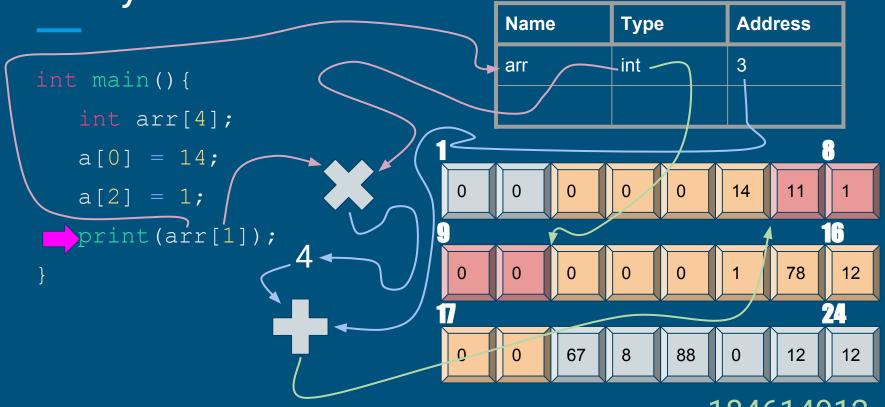








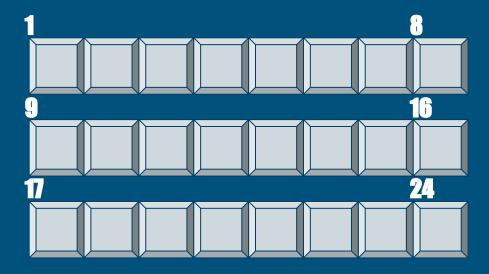




184614912

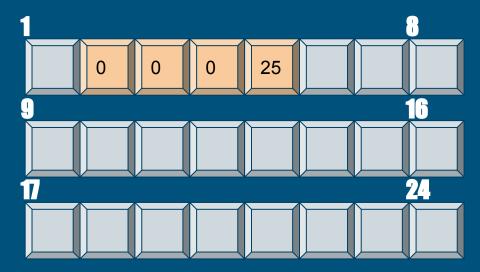
```
int main() {
  int b = 25;
  int* p = &b;
  print(b);
  print(p);
  print(*p);
}
```

| Name | Туре | Address |
|------|------|---------|
| | | |
| | | |

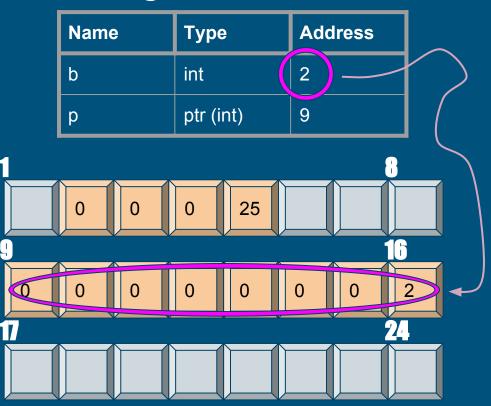


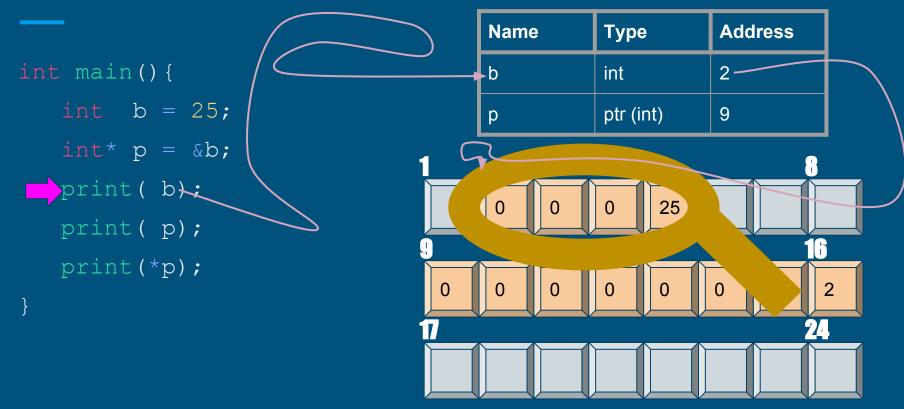
```
int main() {
    int b = 25;
    int* p = &b;
    print(b);
    print(p);
    print(*p);
}
```

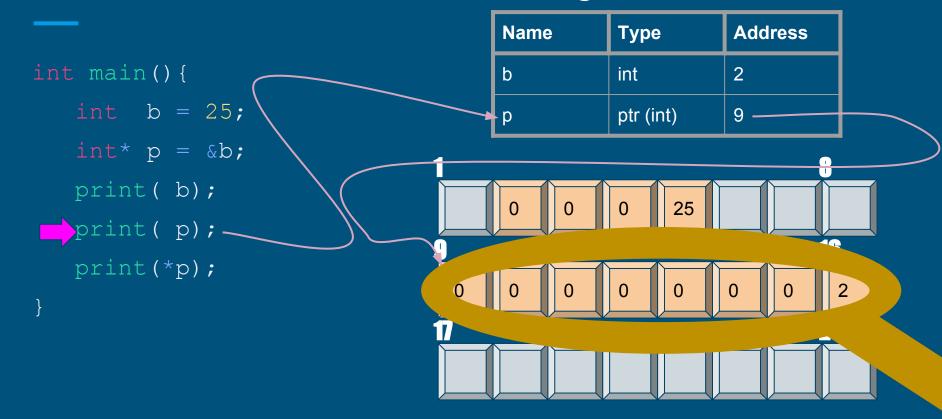
| Name | Туре | Address |
|------|------|---------|
| b | int | 2 |
| | | |



```
int main() {
   int b = 25;
   int* p = &b;
   print(b);
   print(p);
   print(*p);
}
```

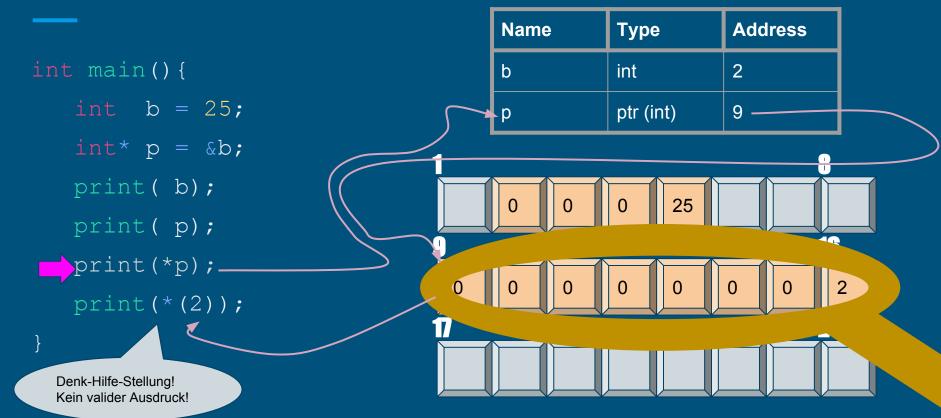




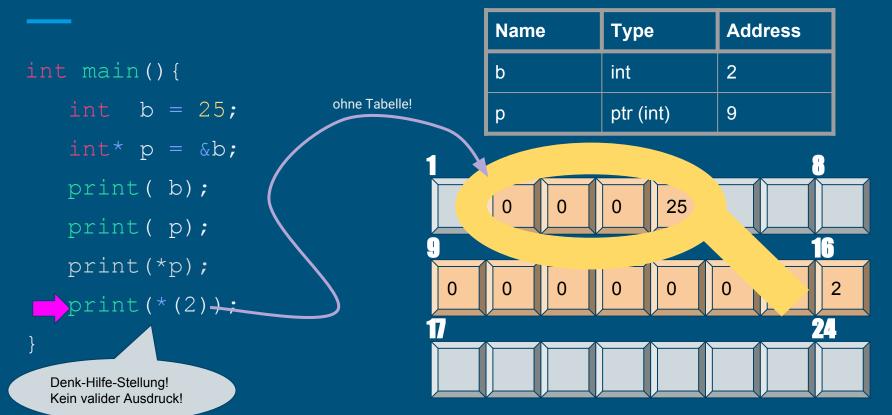


```
Name
                                               Type
                                                         Address
int main(){
                                               int
   int b = 25;
                                               ptr (int)
   int* p = &b;
   print( b);
   print( p);
 print(*p);_
```

Pointer und Dereferenzierung (schrittweise)

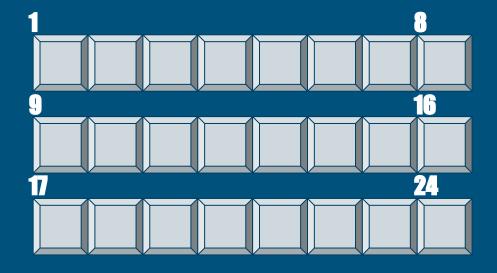


Pointer und Dereferenzierung (schrittweise)



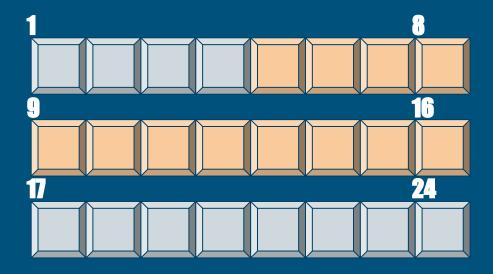
```
int main() {
   int a[3];
   int* p = &a[0];
   print(*p);
   p++;
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

| Name | Туре | Address |
|------|------|---------|
| | | |
| | | |



```
int main(){
<u>int</u> a[3];
   int* p = &a[0];
   print(*p);
   p++;
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

| Name | Туре | Address |
|------|------|---------|
| а | int | 5 |
| | | |

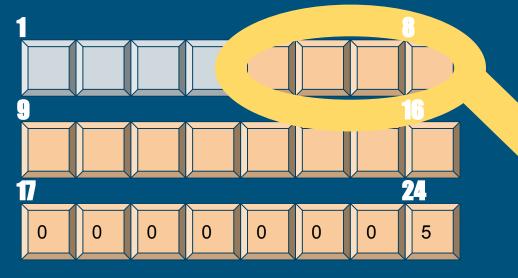


```
int main(){
   int a[3];
\rightarrow int* p = &a[0];
   print(*p);
   p++;
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

| | Name | Туре | Address | |
|---|------|-----------|---------|--|
| | а | int | 5 | |
| | р | ptr (int) | 17 | |
| 1 | | | 8 (| |
| | | | | |
| | | | 16 | |
| | 0 0 | 0 0 | 0 0 | |

```
int main(){
  int a[3];
  int* p = &a[0];
  print(*p);
             whrume
  p++;
  print(*p);
  print (* (p+1));
  print(a[2]);
  print(p[1]);
```

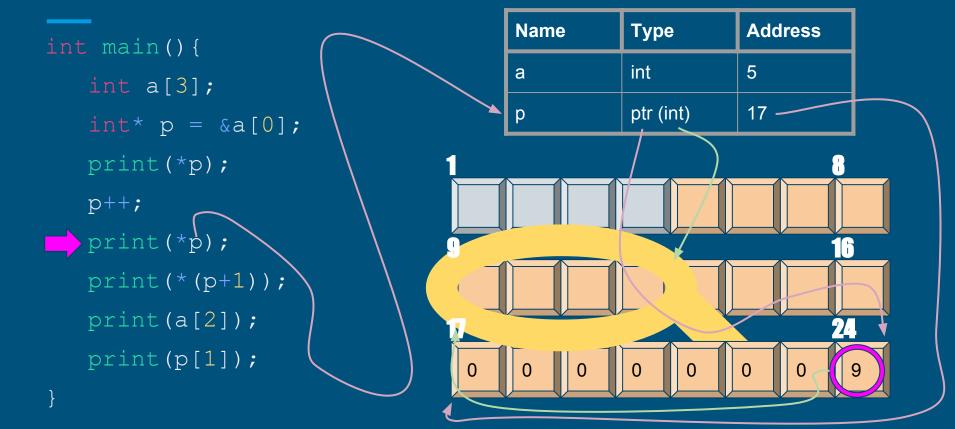
| Name | Туре | Address |
|------|-----------|---------|
| а | int | 5 |
| р | ptr (int) | 17 |

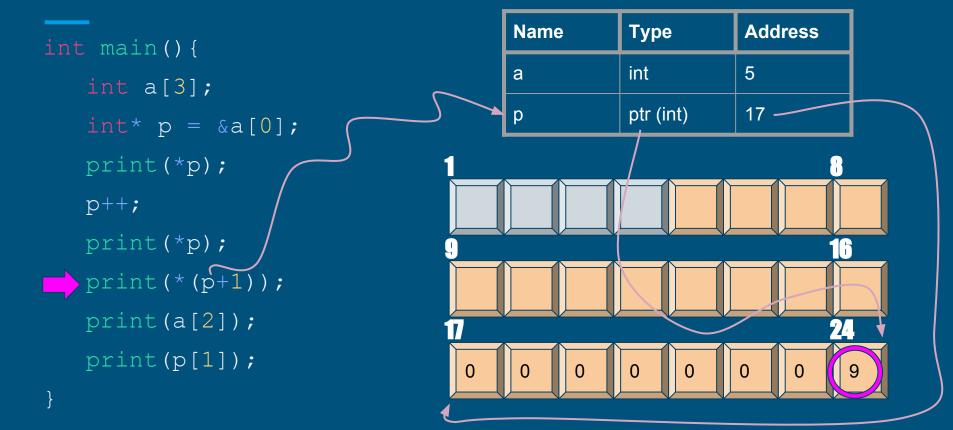


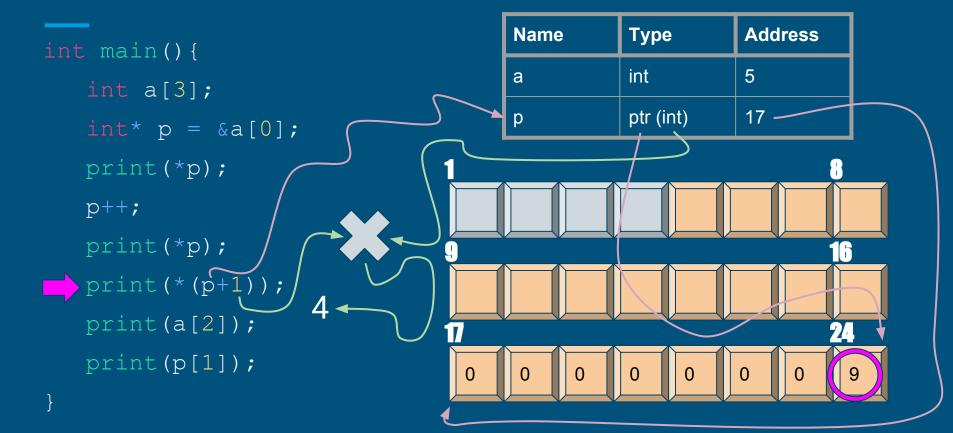
```
Address
                                     Name
                                              Type
int main(){
                                              int
                                                        5
                                     a
   int a[3];
                                              ptr (int)
   int* p = &a[0];
 print(*p);
   p++;
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

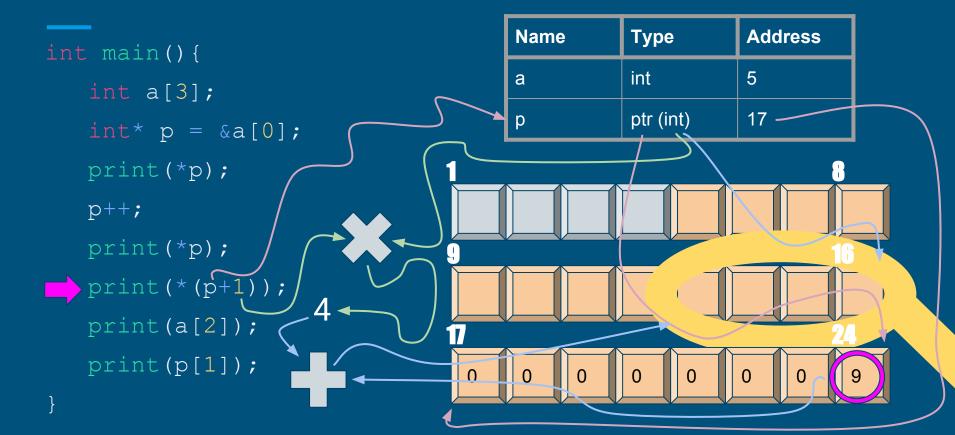
```
Name
                                               Type
                                                         Address
int main(){
                                                int
                                                         5
                                      a
   int a[3];
                                                ptr (int)
                                                         17
   int* p = &a[0];
   print(*p);
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

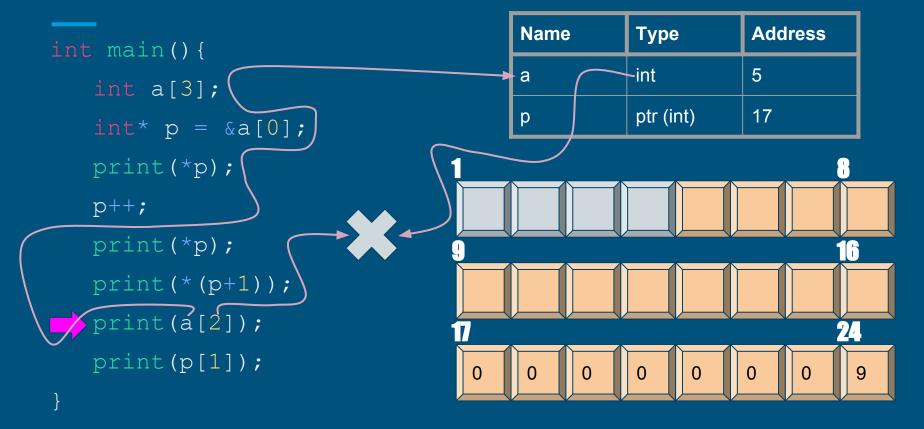
```
Type
                                      Name
                                                          Address
int main(){
                                                int
                                                          5
                                      a
   int a[3];
                                                ptr (int)
                                                          17
   int* p = &a[0];
   print(*p);
                                                         +4
   print(*p);
   print(*(p+1));
   print(a[2]);
   print(p[1]);
```

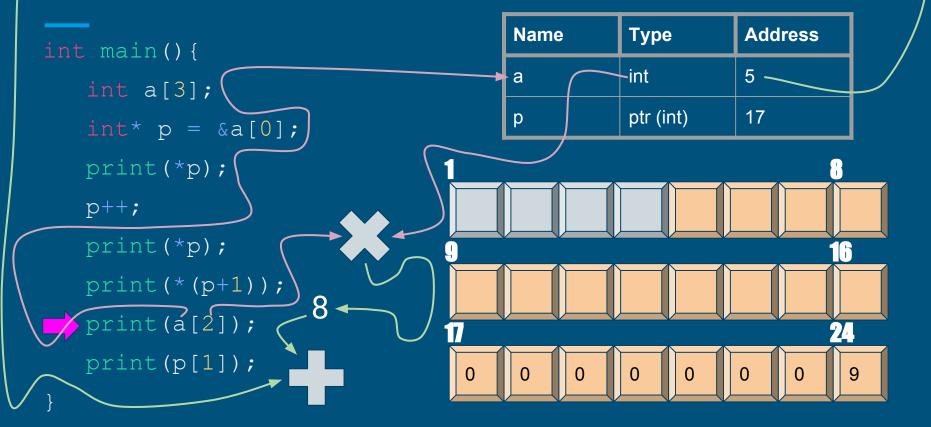


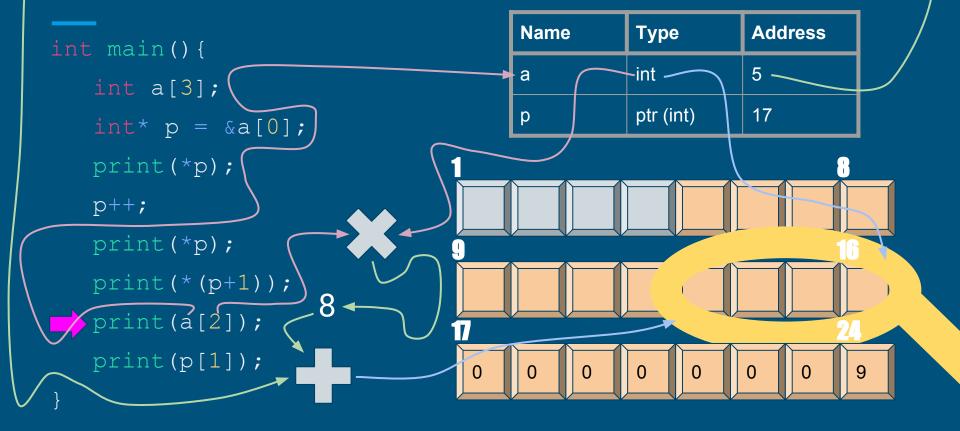












```
Name
                                                Type
                                                          Address
int main(){
                                                int
                                                          5
                                      a
   int a[3];
                                                ptr (int)
                                                          17
   int* p = &a[0];
   print(*p);
   p++;
   print(*p);
   print (* (p+1));
   print(a[2]);
   print(p[1]);
```

