

Array of Pointers

```
int *ptr[arraysize] = array of
pointers, pointing to int
```

Pointer to function

```
int (*FuncPTR)(int a,int
b); //called funcptr is
a pointer to function
// actually is used as a
parameter of another
func and can pass any
func to the desired func
as a parameter with this
method
```

```
int func1( int);
int func2( int);
int func3(int (*Func -
PTR )(i nt));
now we can pass func1 or
func2 to func3 ;
```

Array of Pointers to functions

```
void (*f[3])(int)=
{function1,function2,function3};
// f is an array of pointers
pointing to functions of type
void which all of them take one
parameter of type int .
```

Pointer vs array

```
int b[10]; int *bptr;
bptr=b; OR bptr=&b[0];
*(bptr+3) // shows the
value of b[3]
bptr+3 // points to
&b[3]
//an array can be used
like a pointer too -> *
(b+3) =value of b[3]
//pointer to an array
can be used like an
array -> bptr[3] = value
of b[3]
```

NULL pointer

```
int *ptr = NULL; //The
value of ptr is 0
if(ptr) // succeeds if p
is not null
if(!ptr) // succeeds if
p is null
```

passing pointers to functions

WHEN PASSING ARGUMENTS

```
unsigned long
getSec onds( &sec
);
```

IN FUNCTION HEADER

```
void getSec ond s(u -
nsigned long *par)
```

Pointer to pointer

A pointer to a pointer
is a form of multiple
indirection or a chain
of pointers

```
int var;
int *ptr;
int **pptr;
var = 3000;
ptr = &var; // take
the address of var
pptr = &p tr;//
take the address of ptr
using address of
operator &
```

Return pointer from functions

```
int * getRandom( ) {
static int r[10];
return r;
}
// main function to call
above defined function.
int main () {
int *p;
p = getRan dom();
}
```

Array of strings

```
char *color=
{"red","blue","yellow",'gr
//color is an array of poi
, pointing to the first
character of each string
```



By Nima (nimakarimian)

Published 29th January, 2020.

Last updated 29th January, 2020.

Page 1 of 1.

Sponsored by CrosswordCheats.com

Learn to solve cryptic crosswords!

<http://crosswordcheats.com>