

C++ Pointers cookbook Cheat Sheet

Pointer vs array

bptr=&b[0];

to &b[3]

*(bptr+3) // shows

the value of b[3]

bptr+3 // points

//an array can be

too -> *(b+3)-

=value of b[3]

//pointer to an

array can be used

like an array ->

bptr[3] = value of

used like a pointer

*bptr; bptr=b; OR

int b[10]; int

by nimakarimian via cheatography.com/113429/cs/21694/

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 (*FuncPTR)(int));
now we can pass func1 or func2
to func3;

Array of Pointers to functions

parameter of type int .

{function1, function2, function3};

// f is an array of pointers ,

pointing to functions of type

void which all of them take one

void (*f[3])(int)=

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

passing pointers to functions

WHEN PASSING

ARGUMENTS

null

unsigned long
sec;
 getSeconds(
&sec);
IN FUNCTION HEADER

void getSeconds(unsigned 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 = &ptr;// 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 = getRandom();
    }
```

Array of strings

char *color=
{"red","blue","yellow','green"};
//color is an array of pointers
, pointing to the first
character of each string



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