Cheatography

C++ Pointers cookbook Cheat Sheet by Nima (nimakarimian) via cheatography.com/113429/cs/21694/

Array of Pointers	Pointer vs array	Pointer to pointer	Array of st
int *ptr[arraysize] = array of pointers, pointing to int	<pre>int b[10]; int *bptr;</pre>	A pointer to a pointer	char *co
	<pre>bptr=b; OR bptr=&b[0];</pre>	is a form of multiple	{"red","
Pointer to function	*(bptr+3) // shows the	indirection or a chain	//color
int (*FuncPTR)(int a,int b); //called	value of b[3]	of pointers	, pointi
funcptr is a pointer to function	bptr+3 // points to	int var;	characte
// actually is used as a parameter of	&b[3]	int *ptr;	
another func and can pass any func to the	//an array can be used	int **pptr;	
desired func as a parameter with this	like a pointer too -> $*$	var = 3000;	
method	(b+3)=value of b[3]	ptr = &var // take	
<pre>int func1(int);</pre>	//pointer to an array can	the address of var	
<pre>int func2(int);</pre>	be used like an array \cdot >	<pre>pptr = &ptr// take</pre>	
<pre>int func3(int (*FuncPTR)(int));</pre>	<pre>bptr[3] = value of b[3]</pre>	the address of ptr	
now we can pass func1 or func2 to func3 ;		using address of	
	NULL pointer	operator &	
Array of Pointers to functions	int *ptr = NULL; //The		
void (*f[3])(int)=	value of ptr is 0	Return pointer from	
{function1, function2, function3};	if(ptr) // succeeds if p	functions	
<pre>// f is an array of pointers , pointing to</pre>	is not null	<pre>int * getRandom() {</pre>	
functions of type void which all of them	if(!ptr) // succeeds if p	<pre>static int r[10];</pre>	
take one parameter of type int .	is null	return r;	
		}	
	passing pointers to functions	// main function to	
	WHEN PASSING ARGUMENTS	call above defined	
	unsigned long sec;	function.	
	<pre>getSeconds(&sec);</pre>	int main () {	
	IN FUNCTION HEADER	int *p;	
	void getSeconds (unsigned	<pre>p = getRandom();</pre>	
	j	2	



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