

# Exercices

```
char tab[32]= "Yohoho, une bouteille de rhum !";

int var1= tab[1]-tab[2];

int var2= &tab[2]-&tab[1];

char * var3= tab + strlen(tab);

int * var4= (int *) tab;

int * var5= (int *) tab[1];

char c1= *var3;

char c2= *((char *) var4);

char c3= *(tab + 10);

char c4= *((char *) (var4 + 2));
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## Solutions:

**var1**= 'o' - 'h' = 111 - 104 = 7

Soit tab = X, l'adresse de tab en mémoire

&tab[2] = X+2

&tab[1] = X+1

**var2**= &tab[2]-&tab[1]= (X+2) - (X+1) = 1

strlen(tab) = 31

**var3**= tab+strlen(tab) = X+31

**var4** = X

tab[1] = 'o' = 111

**var5** = 111 (adresse)

**c1** = \*var3 = \*(X+31) = '\0'

**c2**= \*((char \*) var4) = \*(X) = 'Y'

**c3**= \*(tab+10) = \*(X + 10\*sizeof(char)) = 'e'

**c4**= \*((char \*) (var4 + 2)) = \*(X + 2\*sizeof(int)) = \*(X + 2\*4) = 'u'