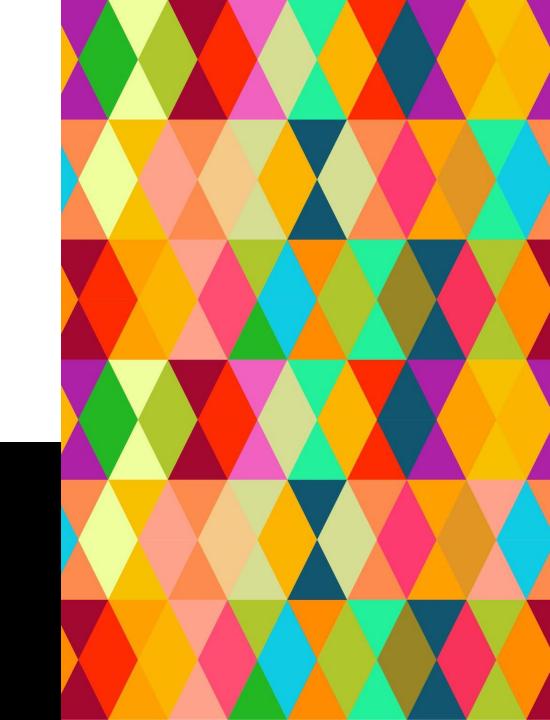
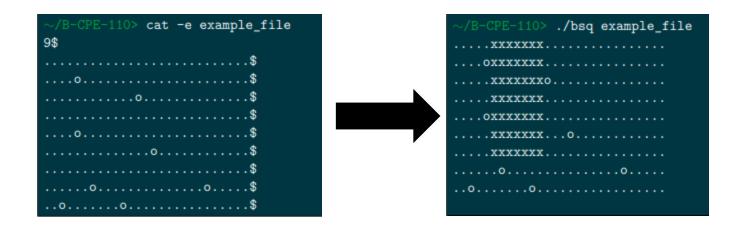
REVIEW BSQ

Arthur Decaen



CONSIGNE

- Trouver le carré le plus grand dans une carte composée de "." et de "o"
- La zone trouvée doit être remplacée par des "x"



BUT DU PROJET





Création d'un algorithme optimisé pour arriver au résultat souhaité.

Gestion de l'ouverture et la lecture de fichiers depuis un programme en C

ALGORITHME

RÉCUPÉRATION DES DIMENSIONS

```
int height(char *file)
   int height = 0;
   for (int i = 0; file[i] != '\0'; i++)
       if (file[i] == '\n')
   return height;
int width(char *file, int height)
   int width = 0;
   for (int j = len_nbr(height) + 1; file[j] != '\n'; j++)
```

```
int len_nbr(int nb)
{
    int count = 0;

    if (nb != 0)
        for (count; nb > 0; count++)
            nb /= 10;
    else
        count = 1;
    return count;
}
```

			0	
	•	0		
0	0		•	0
		•	•	
		•	0	
	0			
				0

1	1	1	0	1
1		0		
0	0	•		0
1	•	•	•	•
1			0	•
1	0	•		•
1				0

1	1	1	0	1
1	-1	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	-1	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	-1	-1
0	0	-1	1	0
1	1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
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ALGORITHME (COMPLET)

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1	1	0	1
-1	0	-1	-1
0	-1	1	0
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-1	-1	0	-1
0	-1	-1	-1
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1	1	1	0	1
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1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

			_	
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1	2	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
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1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	-1	-1
0	0	-1	1	0
1	-1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	-1	-1
0	0	-1	1	0
1	1	-1	-1	-1
1	-1	-1	0	-1
1	0	-1	-1	-1
1	-1	-1	-1	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

1	1	1	0	1
1	2	0	1	1
0	0	1	1	0
1	1	1	2	1
1	2	2	0	1
1	0	1	1	1
1	1	1	2	0

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CRITERION ET GCOVR

GCC Code Coverage Report

Directory: src/		Exec	Total	Coverage
Date: 2020-11-21 21:16:29	Lines:	87	88	98.9 %
Legend: ow: < 75.0 % medium: >= 75.0 % high: >= 90.0 %	Branches:	47	48	97.9 %

File	Lines			Branches		
<pre>create_dup.c</pre>		100.0 %	15 / 15	100.0 %	14 / 14	
<u>len_array.c</u>		100.0 %	11 / 11	100.0 %	6/6	
load_2d.c		100.0 %	14 / 14	100.0 %	8/8	
<u>load_file.c</u>		83.3 %	5/6	50.0 %	1/2	
<u>read_file.c</u>		100.0 %	6/6	- %	0/0	
set_value.c		100.0 %	10 / 10	100.0 %	6/6	
set_x.c		100.0 %	14 / 14	100.0 %	10 / 10	
start.c		100.0 %	12 / 12	100.0 %	2/2	

```
8 char *load_file_in_mem(char const *filepath)
{
    struct stat *buf;

8    buf = malloc(sizeof(struct stat));
    stat(filepath, buf);
    if (buf->st_size == 0) {
        exit(ERROR);
    }

8    return fs_cat_x_bytes(filepath, buf->st_size);
}
```

MY EPITECH



09 - Error handling

50% Passed

Total: 4 Passed: 2 Crashed: 0 Failed or skipped: 2 01 - different sizes > Test failure: The output must match the regular expression 'AOK \$', but it was 'KO: Invalid exit status. Got 0 but expected 84.

02 - non-existant > PASSED

03 - empty map > PASSED

04 - less lines > Test failure: The output must match the regular expression '^OK \$', but it was 'KO: Invalid exit status. Got 0 but expected 84.

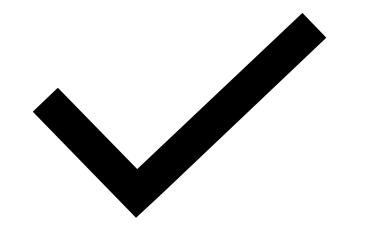
DIFFICULTÉS



- Pas de soucis pour les2d arrays grâce au bootstrap.



Algorithme déjà connu.



ÇA DONNE QUOIGITHUB?