semyon@semyon-VirtualBox:~$ cat head

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\* Лабораторная работа №13 \*

\* Множества \*

\* \*

\* Работу выполнил: \*

\* Стеснягин Семён \*

\* Группа 80-102Б \*

\* \*

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semyon@semyon-VirtualBox:~$ cat lab13\_var14.c

#include <stdio.h>

#include <ctype.h>

#define VOWELS (1u<<('b'-'a') | 1u<<('c'-'a') | 1u<<('d'-'a') | 1u<<('f'-'a')|1u<<('g'-'a')|1u<<('h'-'a') | 1u<<('j'-'a') | 1u<<('k'-'a') | 1u<<('l'-'a')|1u<<('m'-'a')| 1u<<('n'-'a') | 1u<<('p'-'a') | 1u<<('q'-'a')|1u<<('r'-'a')|1u<<('s'-'a')|1u<<('t'-'a')|1u<<('v'-'a')|1u<<('x'-'a')|1u<<('z'-'a'))

unsigned int char\_to\_set(char c) {

c = tolower(c);

if (c < 'a' || c > 'z') {

return 0;

}

else {

return 1u << (c - 'a');

}

}

int main() {

int c;

unsigned int letters\_set = 0;

while ((c = getchar()) != EOF) {

letters\_set = letters\_set | char\_to\_set(c);

}

letters\_set = letters\_set & VOWELS;

if (letters\_set == VOWELS) {

printf("%s\n", "There is NO a consonant, which is not part of any word");

}

else {

printf("%s\n", "There is a consonant, which is not part of any word");

}

}

semyon@semyon-VirtualBox:~$ gcc lab13\_var14.c

semyon@semyon-VirtualBox:~$ ./a.out

Just, a short,./ sentence !23456".,

There is a consonant, which is not part of any word

semyon@semyon-VirtualBox:~$ ./a.out

Pack my box with five dozen liquor jugs

There is NO a consonant, which is not part of any word

semyon@semyon-VirtualBox:~$ ./a.out

Abcd asd asd.12312 ,asd "\asdas

Aasdasdasd,asda fkh;bmcvb,a\q

xvm.,xcmvx.,m.sfdmsdkf

k234p2k;rwek

There is a consonant, which is not part of any word