Name:

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Test 1 V 1

Test 1-1 V1

1. Write a function called passed() that receives the name of a student and then unknown number of the marks for the semester which is followed by a “-1” to mark the end of the marks.  
   The function finds the average of the marks and then prints a message including the name of the student, indicating if the student has passed or not. (Average higher than 55 is a pass);

Example:

int main(){

passed(“Fardad”, 40, 70, 58, 80, 90, -1);

passed(“John”, 40, 30, 40, 50, -1);

return 0;

}

Output:

Fardad passed with the average of 67.6

John failed with the average of 40

1. Determine the exact output of the following program if the name of the executable is walk and it is executed as follows:

$ walk 1234 abcd ABCD <ENTER>

#include <cstdio>

using namespace std;

#define sum(a, b) a+b

void w2(){

int a[10] = {1,2,3,4,5,6,7,8,9,10};

int\* p;

p = a + 3;

printf("W2:\n%d,", \*(a+3));

printf("%d\n", p[0]);

}

void w3(void\* d, void\* s){

printf("W3:\n");

for(int i=sizeof(int);i>=0;((char\*)d)[i] =((char\*)s)[i], i--);

}

int w6(){

int a[10]={1,3,4,-5,4,-7,3,0,-1,8};

int i;

int num = 0;

printf("w6:\n");

for(i=0;i<10;(a[i]%2) && (num+=1),i++);

return num;

}

int main(int argc, char\* argv[]){

int i;

int j = 12;

int\* p = (int\*)12;

void (\*fp)(void) = w2;

printf("W1:\n");

for (i=argc;--i>0;printf("%c", argv[i][i]));

putchar('\n');

w2();

w3( &i, &j);

printf("%d\n", i);

printf("W4:\n");

printf("%u\n", ++p);

fp();

printf("%d\n", w6());

i = 6; j = 4;

printf("W7:\n%d\n", sum(i,j)\*3);

return 0;

}