

## PPS CT2 - Prev year QP Set-3

Programming For Problem Solving (SRM Institute of Science and Technology)



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## SRM Institute of Science and Technology College of Engineering and Technology School of Computing

## DEPARTMENT OF COMPUTING TECHNOLOGIES

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2022-23 (ODD)

Test: CLAT- 2

Course Code & Title: 21CSS101J / Programming for Problem Solving – Answer Key

Year & Sem: I/I Max. Marks: 50

## NOTE:

• For each 5 mark question, 2 marks logic (as seen in program irrespective of syntax errors) and 3 marks for program.

• Based on number of syntax errors in program, program marks (3) may be allotted.

• There is no need to write #inlcude<stdio.h> for all programs

• There are many ways of writing the same program!

Instru	Part - A  ( 1 x 25 = 25 Marks )  ctions: This section has only ONE question with internal choice.					
Q. No		Marks	BL	CO	PO	PI Code
1a	(i) Problem: There is a group of N friends who wish to enrol in a course together. The course has a maximum capacity of M students that can register for it. If there are K other students who have already enrolled in the course, determine if it will still be possible for all the N friends to do so or not.  Input Format:  • Each test case consists of a single line containing three integers N, M and K - the size of the friend group, the capacity of the course and the number of students already registered for the course.  Output Format:  • For each test case, output Yes if it will be possible for all the N friends to register for the course. Otherwise output No.  Input: Output:  3 2 50 27 Yes 5 40 38 No 100 100 0 Yes  Solution:  #include <stdio.h> int main() {     int t;         scanf("%d",&amp;t);         while(t)         {               int n,m,k;               scanf("%d %d %d",&amp;n, &amp;m, &amp;k);               m-=k;               if(n&lt;=m)                     printf("YES\n");               else</stdio.h>	5	1	2	PO1	1.7.1



return 0;					
}					
(ii) Problem: Karan bought car insurance. The policy of the insurance is:					
	5	2	2	PO2	2.5.2
<ul> <li>Karan's car meets an accident and required Rs Y lakh for repairing. Determine the amount that will be rebate by the insurance company.</li> </ul>					
Input Format:					
<ul> <li>The first and only line of each test case contains tw space-separated integers X and Y.</li> <li>Output Format:</li> </ul>	0				
<ul> <li>For each test case, output the amount (in lakhs) that wi be rebated by the insurance company.</li> </ul>	11				
Input: Output:					
4 5 3 3					
5 8 5					
4 4 4					
15 12 12					
Solution:					
#include <stdio.h></stdio.h>					
int main() {					
int n;					
scanf("%d",&n);					
while(n>0)					
{					
int x,y,min;					
scanf("%d %d",&x,&y);					
$\inf_{x \in \mathcal{Y}} (x < y)$					
min=x;					
else					
min=y;					
printf("%d\n",min);					
n;					
}					
return 0;					
}					
(iii) Problem: Rahul has N friends. He promised that he would gift a pair of shoes (consisting of one left shoe and one right shoe) to each of his N friends. Rahul was about to go to the marketplace to but shoes, but he suddenly remembers that he already had M leshoes. What is the minimum number of extra shoes that Rahu will have to buy to ensure that he is able to gift a pair of shoes teach of his N friends?	of y ft il	2	2	PO2	2.5.2
Input Format:					
<ul> <li>Each test case contains two integers N and M - th number of Rahuls's friends and the number of left shoe</li> </ul>					
Rahul has.	1				
Output Format:					

Rahul will have to buy to ensure that he is able to get N pairs of		Τ		<u> </u>	
shoes.					
Solution:					
#include <stdio.h></stdio.h>					
	5	3	2	PO2	2.5.2
int main()	3		_	102	2.3.2
<u>{</u>					
int n,m,t;					
scanf("%d",&t);					
$for(int i=1;i \le t;i++)$					
{					
scanf("%d%d",&n,&m);					
if(m<=n)					
{					
int k=(2*n)-m;					
printf("%d",k);					
}					
else					
CISC					
nrintf("0/d" n):					
printf("%d",n);					
}					
printf("\n");					
}					
}					
(iv) Problem:					
In a test, there are N problems, each carrying X marks. In each					
problem, Amala either received X marks or 0 marks. Determine					
whether is it possible for her to achieve exactly Y marks.					
Input Format:					
• Each test case consists of three integers N, X and Y, the					
number of problems, the maximum score for each					
problem, and the score Amala wants.					
Output Format:					
For each test case, output YES if Amala can achieve exactly Y					
marks, NO otherwise.					
Input: Output:					
5					
184 NO					
3 6 12 YES					
4 5 0 YES					
10 10 100 YES					
8 5 36 NO					
Solution:					
#include <stdio.h></stdio.h>					
int main(void) {					
int t,n,x,y;					
scanf("%d",&t);					
while(t)	5	1	2	PO2	2.5.2
while(t )	.,		_	[	
{	3				
scanf("%d %d %d",&n,&x,&y);	3				
scanf("%d %d %d",&n,&x,&y);	3				
scanf("%d %d %d",&n,&x,&y); if(y <x&&y!=0)< td=""><td>3</td><td></td><td></td><td></td><td></td></x&&y!=0)<>	3				
{     scanf("%d %d %d",&n,&x,&y);     if(y <x&&y!=0) printf("no\n");<="" td=""><td>3</td><td></td><td></td><td></td><td></td></x&&y!=0)>	3				
{     scanf("%d %d %d",&n,&x,&y);     if(y <x&&y!=0) else="" if(y="=0)&lt;/td" printf("no\n");=""><td>3</td><td></td><td></td><td></td><td></td></x&&y!=0)>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="=0)" pre="" printf("no\n");="" printf("yes\n");<=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="=0)" if(y%x="=0)&lt;/pre" printf("no\n");="" printf("yes\n");=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="=0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" printf("yes\n");<=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" else<="" if(y="=0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="=0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" printf("yes\n");<=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" else<="" if(y="=0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" }<=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" else<="" if(y="=0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");=""></x&&y!=0)></pre>	3				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" }<=""></x&&y!=0)></pre>	J				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" }<=""></x&&y!=0)></pre>	J				
<pre>{     scanf("%d %d %d",&amp;n,&amp;x,&amp;y);     if(y<x&&y!=0) else="" if(y="0)" if(y%x="=0)" pre="" printf("no\n");="" printf("yes\n");="" }<=""></x&&y!=0)></pre>	3				



	Alice, Bob and Charlie are bidding for an artifact at an auction. Alice bids A rupees, Bob bids B rupees, and Charlie bids C rupees (where A, B, and C are distinct). According to the rules of the					
	auction, the person who bids the highest amount will win the auction. Determine who will win the auction.					
1b	<ul> <li>Input Format:</li> <li>Each test case contains three integers A, B, and C, — the amount bid by Alice, Bob, and Charlie respectively.</li> </ul>					
	Output Format:					
	• For each test case, output who (out of Alice, Bob, and Charlie) will win the auction.					
	Solution:					
	#include <stdio.h> int main(void) {</stdio.h>					
	int t,a,b,c;					
	scanf("%d",&t);	5	2	2	PO2	2.5.2
	for(int i=0;i <t;i++){< td=""><td></td><td></td><td></td><td></td><td></td></t;i++){<>					
	scanf("%d %d %d",&a,&b,&c); if(a>b && a>c){					
	printf("Alice\n");					
	<pre></pre>					
	} }					
	else{					
	printf("Charlie\n");					
	}					
	return 0;					
	}					
	(OR)					
	Most programmers will tell you that one of the ways to improve your performance in competitive programming is to practice a lot					
	of problems. Naveen decides to solve at least 10 problems every week for 4 weeks. Given the number of problems he actually solved in each week over 4 weeks as P1,P2,P3, and P4, output					
	the number of weeks in which he met his target.  Input Format:					
	• There is a single line of input, with 4 integers P1, P2,P3, and P4. These are the number of problems solved by Naveen in each of the 4 weeks.					
	Output Format:					
	Output a single integer in a single line - the number of weeks in which Naveen solved at least 10 problems.					
	Input: Output:					
	12 15 8 10 3					
	Solution:					
	#include <stdio.h></stdio.h>					
	int main(void) { // your code goes here					
	int arr[4],i,count=0;					
	for(i=0;i<4;i++)	5	3	2	PO2	2.5.2
	{	3	3		FO2	2.3.2
	scanf("%d",&arr[i]);					
	for(i=0;i<4;i++)					
	if(arr[i]>=10)					
	count++;					
	else					
	continue;					

<pre>printf("%d",count);</pre>						
}						
(ii) Problem: Nakul wants to go to a music confor the audience is arranged in denumber of tickets booked for a singurangement booking with the allotted the seats in the front rows of people is allotted the seats management firm has planned to displays the exact seat layout in provided. Can you help them with Input Format: The only line of input has a singumber of rows for the concert. Output Format: Print the seating arrangement layour provided. Enter the number of rows: 7	seconding order of the maximum ngle booking. As per the seating highest number of people is and the with the lowest number in the last row. The event to develop the software which if the total number of rows is the logic of doing so?					
6 6 6 6 6						
5 5 5 5 5						
4 4 4 4 3 3 3 2 2		5	2	2	PO2	2.5.2
1 Solution:						
#include <stdio.h> int main() {     int i, j, rows;     printf("Enter the number scanf("%d", &amp;rows);     for (i = rows; i &gt;= 1;         for (j = 1; j &lt;= i; ++j)         printf("%d\t",rows)     }     printf("\n");     }     return 0; } (iii) Problem:</stdio.h>	i) {					
Vasya likes the number 239. number pretty if its last digit is 2 the numbers between L and R (bo determine how many pretty num help him?  Input Format:	2, 3 or 9. Vasya wants to watch th inclusive), so he asked you to					
Each test case contains two space-	-separated integers L and R.					
Output Format: For each test case, print a single linumber of pretty numbers between Input Output  2 1 10 3						
11 33 8						
Solution: int main(void) {   int t,j,count=0,i;   long int l,r;						

scanf("%d",&t);					
for(i=0;i <t;i++)< td=""><td></td><td></td><td></td><td></td><td></td></t;i++)<>					
{					
scanf("\n%ld %ld",&l,&r);					
for(j=l;j<=r;j++)					
{	5	3	2	PO2	2.5.2
if((j%10==2)  (j%10==3)  (j%10==9))			-	102	2.3.2
count++;					
}					
<pre>printf("\n%d",count);</pre>					
count=0;					
}					
return 0;					
}					
(iv) Problem:					
Shreyansh likes to play with arrays. He started solving many problems related to array and after a while he thought that he had become an expert					
in this field and could solve any problem related to array. Seeing this					
shubham decided to challenge him with a problem related to array.					
Shubham gave him the following problem.					
Given an array A[] with N integers and count the total number					
of prime numbers in the array.					
Solution:					
#include <stdio.h></stdio.h>					
int main()					
int minimum, maximum, flag, count=0, i, j;					
printf("Enter minimum number: ");					
scanf("%d", &minimum);					
printf("Enter maximum number: ");					
scanf("%d", &maximum);					
stain ( / ta ; to maximum);					
/* Generating and counting prime numbers */					
for(i=minimum; i<=maximum; i++)					
{					
flag = 0;					
for( $j=2; j \le i/2; j++$ )					
{					
if(i%j==0)					
{					
flag=1;					
break;					
}					
} :((Cla					
if(flag==0 && i>=2)					
{ nrintf("0/d\t";).					
printf("%d\t",i);					
count++;					
}	5	3	2	PO2	2.5.2
printf("\n Prime Count = %d", count);					
return(0);					
}					
,					
	1				
					1
(v) Problem:					
(v) Problem:  Arun is a professor and he wants to find who has secured first mark and second mark in his subject. Help him to find the same.					

```
Input Format:
       Get N students marks in his class
       Output Format:
       print the first mark and second mark
       Solution:
       #include <stdio.h>
       int main() {
         int array[10] = \{101, 11, 3, 4, 50, 69, 7, 8, 9, 0\};
         int loop, largest, second;
         if(array[0] > array[1]) {
           largest = array[0];
           second = array[1];
         } else {
           largest = array[1];
           second = array[0];
         for(loop = 2; loop < 10; loop++) {
           if( largest < array[loop] ) {</pre>
             second = largest;
             largest = array[loop];
           } else if( second < array[loop] ) {</pre>
             second = array[loop];
         printf("Largest - %d \nSecond - %d \n", largest, second);
         return 0;
        Alternatively, may be done by finding minimum number twice.
                                                          Part – B
                                                  (1 \times 25 = 25 \text{ Marks})
Instructions: This section has only ONE question with internal choice.
       (i) Problem:
       Neha has a string S with her fname and lname. She needs to know
                                                                                                           PO<sub>1</sub>
                                                                                5
                                                                                           1
                                                                                                    3
                                                                                                                     1.7.1
       the number of characters in fname and lname. Help her to find
       the length of fname and lname. After finding the length she needs
        to combine the fname and lname. Help her to implement the logic.
       Input format:
        Get the first name and last name
        Output:
        Display the number of characters and combined string
        Solution:
         #include<stdio.h>
         #include<string.h>
         void main()
                  clrscr();
                  char s1[25],s2[25];
                  int 1;
                  printf("Enter first string=");
                  scanf("%s",s1);
                  printf("Enter second string=");
                  scanf("%s",s2);
                  strcat(s1,s2);
                  l=strlen(s1);
                  printf("Concatenate string=%s\n",s1);
                  printf("Length of concatenate string=%d",l);
                  getch();
```

(ii) Problem: Chan has a string S with him. He is happy if the string contains a contiguous substring of length strictly greater than 2 in which all its characters are vowels. Determine whether Chan is happy or not.					
Input Format:					
Get single line of input, a string S.  Output Format:					
if Chan is happy, print HAPPY else print SAD.	5	2	3	PO2	2.5.2
Solution:	3			1 02	2.3.2
#include <stdio.h></stdio.h>					
#include <string.h></string.h>					
int main(void)					
{ int t;					
scanf("%d",&t);					
char s[1000];					
while(t)					
{					
int i,count=0;					
scanf("%s",s); for(i=0;i < strlen(s)-1;i++)					
101(1=0,1\sutch(s)=1,1++) {					
if(s[i]=='a'  s[i]=='e'  s[i]=='i'  s[i]=='o'  s[i]=='u')					
{					
count++;					
}					
else					
if(count>2)					
break;					
else					
count=0;					
}					
}					
if(count>2)					
{ nrintf("Hanny\n"):					
printf("Happy\n");					
else					
{					
printf("Sad\n");					
count=0;					
}					
return 0;					
}					
Or alternatively can be done by checking if both character i and					
character i+1 are vowels in the same if condition.					
(iii) Problem:					
Charvy invented a modified wordle. There is a hidden word S and					
a guess word $T$ , both of equal length. Charvy defines a string M to					
determine the correctness of the guess word. For the <i>ith</i> index:					
• If the character at the <i>ith</i> index is same both in S and T	5	1	3	PO2	2.5.2
then the ith character of M is G otherwise B.		1		1 02	2.3.2
• Given the hidden word S and guess T, determine					
string M.  Input Format					
Each test case contains of two lines of input.					
<ul> <li>First line contains the string S - the hidden word.</li> </ul>					
<ul> <li>Second line contains the string T - the guess word.</li> </ul>					
<ul> <li>Second time contains the string 1 - the otiess word</li> </ul>	i .	İ	l	1	1

```
Output Format
For each test case, print the value of string M
1
cat
rat
BGG
Solution:
#include <stdio.h>
int main() {
         int t, x, y, z,n1;
         char s[n1], r[n1];
         scanf("%d", &t);
         scanf("%d",&n1);
         while ( t-- ){
           scanf("%s %s", &s, &r);
           for(x = 0; x < n1; x++)
              if (s[x] == r[x])
                printf("G");
              }else{
                printf("B");
           printf("\n");
         return 0;
                                                                                   2
                                                                                                  PO<sub>2</sub>
                                                                                                           2.5.2
                                                                         5
                                                                                            3
(iv) Problem:
Amir has a string S with him. He needs to know the occurrence of
a particular character and also number of occurrences of that
character. Help him to find the logic for the same.
Input format:
Get the input string and a character to check occurrence
Output:
Total number of occurrences of the given character.
#include <string.h>
int main()
  char s[1000],c;
  int i,count=0;
  printf("Enter the string : ");
  gets(s);
  printf("Enter character to be searched: ");
  c=getchar();
  for(i=0;s[i];i++)
         if(s[i]==c)
      count++;
         printf("character '%c' occurs %d times \n ",c,count);
         return 0;
```

<ul><li>2 2.5.2</li><li>1 1.7.1</li></ul>
1 1.7.1
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1  1./.1
2 2.5.2

```
Solution:
#include <stdio.h>
int main()
int mat,phy,che, *ptr1=&mat,*ptr2=&phy,*ptr3=&che;
 scanf("%d", ptr1);
 scanf("%d", ptr2);
 scanf("%d", ptr3);
if(*ptr1>*ptr2 && *ptr1>*ptr3)
printf("Maths");
else if(*ptr2>*ptr3 && *ptr2>*ptr3)
printf("Physics");
else
  printf("Chemistry");
return 0;
(iii) Problem
Ravi has to travel to another place. For this, he can avail any one
of two cab services.
                                                                                2
                                                                                              PO<sub>2</sub>
                                                                                                       2.5.2
                                                                      5
        The first cab service charges X rupees.
        The second cab service charges Y rupees.
Ravi wants to spend the minimum amount of money. Which cab
service should Ravi take? Use pointers to implement the concept
Input Format
        Each test case contains two integers X and Y- the prices
        of first and second cab services respectively.
Output Format
For each test case, output FIRST if the first cab service is cheaper,
output SECOND if the second cab service is cheaper,
output ANY if both cab services have the same price.
3
20 60
First
40 40
Any
50 30
Second
Solution:
#include <stdio.h>
#include <stdlib.h>
void main()
int n, fno,sno,*ptr1=&fno,*ptr2=&sno;
scanf("%d", &n);
for (int i = 0; i < n; i++)
  scanf("%d", ptr1);
  scanf("%d", ptr2);
if(*ptr1<*ptr2)
printf("\nFirst");
else if(*ptr2<*ptr1)
printf("\nSecond");
else
printf("\nAny");
```



}					
(iv) Ducklam					
(iv) Problem					
Bunty is a 10 year old boy playing a game of swap the two	5	2	4	PO2	2.5.
numbers A & B and write them on a board in correct order. He is	3		<b>,                                    </b>	102	2.3.
in confusion of doing this. So help him by taking this two number					
A and B as input and after Swapping print the output on screen					
using <i>pointers and functions</i> .					
Input Format					
Input line contains two numbers A and B.					
Output Format					
Output in a single line the two numbers after swap them.					
Solution:					
#include <stdio.h></stdio.h>					
void swapNumbers(int *x,int *y);					
int main()					
{					
int e1,e2;					
scanf("%d",&e1);					
scanf("%d",&e2);					
swapNumbers(&e1,&e2);					
printf("%d %d",e1,e2);					
return 0;					
iciuiii V,					
} 					
void swapNumbers(int *x,int *y)					
{					
int tmp;					
tmp=*x;					
*x=*y;					
*y=tmp;					
\					- 1
(v) Problem: Alice and Bob are very good friends and they always distribute all					
Alice and Bob are very good friends and they always distribute all the eatables equally among themselves. Alice has A chocolates and Bob has B chocolates. Determine whether Alice and Bob can distribute all the chocolates equally among themselves. Implement the logic using <i>functions</i> Note that: It is not allowed to break a chocolate into more than one piece. No chocolate shall be left in the distribution.  Input Format:  Each test case contains two space-separated integers A and B, the number of chocolates that Alice and Bob have, respectively.  Output Format:  For each test case, output on a new line YES if Alice and Bob can distribute all the chocolates equally, else output NO.  Solution:  #include <stdio.h> void solve()  {</stdio.h>	5	3	4	PO2	2.5.2
Alice and Bob are very good friends and they always distribute all the eatables equally among themselves. Alice has A chocolates and Bob has B chocolates. Determine whether Alice and Bob can distribute all the chocolates equally among themselves. Implement the logic using <i>functions</i> Note that: It is not allowed to break a chocolate into more than one piece. No chocolate shall be left in the distribution.  Input Format:  Each test case contains two space-separated integers A and B, the number of chocolates that Alice and Bob have, respectively.  Output Format:  For each test case, output on a new line YES if Alice and Bob can distribute all the chocolates equally, else output NO.  Solution:  #include <stdio.h> void solve()  {    int a, b;</stdio.h>	5	3	4	PO2	2.5.
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