Homework Questions of 11/02/2023 Union of 2 arrays with the duplicate Ques 1 cases i/p → a[]= {1,2,3,4} b[]=/{2,3,4,53 11,2,3,4,53 0/67 1) Make an output vector and also make a bool variable & initialize it with false. Insert all the elements of a in the output vector.

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	Now we will go to array b & travery
3)	Now we will go to array by travent of it. We will also check each element of b in output vector simultaneously & if we find the element, we make boolean we find the element, we inner for loop.
	it. We will also check simultaneously & if
	b in out but vector simo make boolean
	we find the element, we inner for long
	we find the element, we many for loop. Variable true & break the inner for loop.
	in folke a them
4)	Af the boolean variable is false, then only insert into the output vector.
	only insert into the output verse
	Code
	$(20) \qquad (11 \times 110) \qquad 101 \times 101$
	vector <int> output;</int>
J - 31	bool flag = false; // Insert all elements of a array
	// Insert all elements of a worldy
	output push back (a [i]);
	2
	// Before inserting elements of b, check element in output
	for (int i = 0); i < sizeb; i++) { or not.
	flag = false; for (int j = 0 ; j < output size(); j++)_
atr.	for (int j=0) j < Output. size(), jtil-
	10.61.512
	if (b[i] = = output [j]) {
	flag = trues break:
	break
	3 - 1 - 1 - 1
	<u> </u>
	if (Iflag) {
4	output push back (b[i])
1	Time of section and the second of the
	3
	/Simply print the away elements
	7 9 6 9 5 8 V 4 1 1 4 1 1 1
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for (int i=0; i < output size(); i++){
                cout << output (i) << "
Ques 2 Find four numbers in an array whose sum is equal to particular value.
      i/b → a[] = {1,2,3,4,5,6,7,8,9,103
        Sum = 10
      0/6-1 (1,2,3,4)
   The algorithm is same as that of pair or
   triplet sum just we need 4 nested for
   loops to solve the particular problem.
   Code
   for (int i=o; i< sizea; i++) {
       for (int j= i+1) j<sizea j j++) {
           for (int R = j+1; k < sizea; K++) {
              for (int l= k+1; 1 < sizea; 1++) {
                 if (a[i] + a[i] + a[k] + a[l] = = sum) {
                cout << "("<< a[i] << "," << a[j]
                << ", " << a [k] << ", " << a [l] <<
                       << endl;
```

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