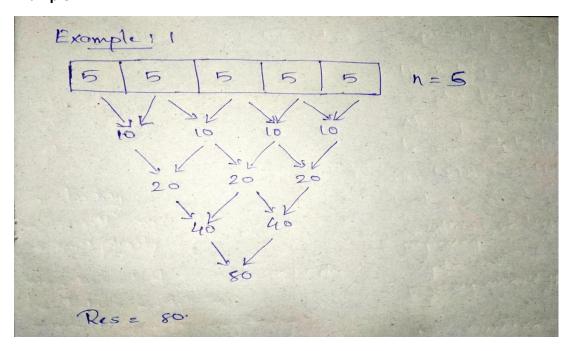
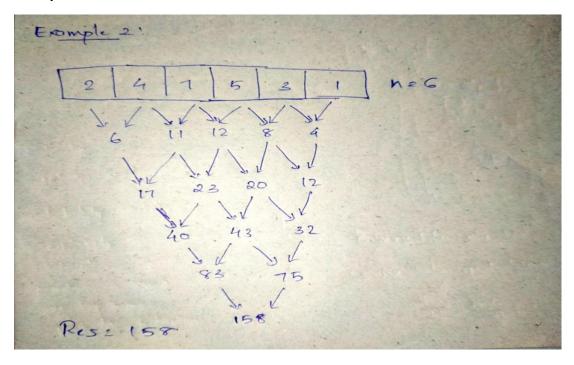
Problem:

[Grab your reader's attention with a great quote from the document or use this space to emphasize a key point. To place this text box anywhere on the page, just drag it.]

Example 1:



Example 2:



Program:

```
//Libraries
#include <stdio.h> //standard input-output library
#include <stdlib.h> //standard library
int findsum(int *arr,int n){  //function for processing the current array with size n
  if(n==1)
                   //checks if the array have have only one element, which is the result
    return arr[0];
  int i,j,ind=0;
  //dynamically allocate an array of size n-1, to store the results of current processing
  int *new_arr=(int *)malloc((n-1)*sizeof(int));
  for(i=0;i<n-1;i++){
    j=i+1;
    //find sum of array values at i and j indices in each looping and assigns to the new_array
    new_arr[ind++]=(arr[i]+arr[j]);
  }
  return findsum(new_arr,n-1); //return the result in each function call
}
//main function
void main(){
  int n;
  printf("\nEnter the no of elements:");
  scanf("%d",&n);
  int *arr=(int *)malloc(n*sizeof(int)); //allocate an array of size n dynamically
```

Enter the no of elements:6

Enter elements: 2 4 7 5 3 1

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