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1)Maximum product subarray(152)
solution:
int maxProduct(vector<int>& nums) {
    if (nums.size()==1)
       return nums[0];
    int maxsofar=nums[0];
    int minsofar=nums[0];
    int finalmax=nums[0];
    int prev;
    for(int i =1;i<nums.size();i++)</pre>
      prev=maxsofar;
       maxsofar=max(nums[i],max(nums[i]*maxsofar,nums[i]*minsofar));
       minsofar=min(nums[i],min(nums[i]*minsofar,nums[i]*prev));
       finalmax=max(maxsofar,finalmax);
    return finalmax;
  }
2)subarray product less than k(713)
Solution:
int numSubarrayProductLessThanK(vector<int>& nums, int k) {
    int l=0,r=0;
    int result=0;
    int product=1;
    while(r<nums.size())
       product*=nums[r];
       while(product>=k&&l<=r)
       {
         product/=nums[l];
         l++;
       result+=r-l+1;
       r++;
    return result;
  }
3 subarray sum equal to k
Solution
int subarraySum(vector<int>& nums, int k) {
           int i ,j,sums=0,p=0;
         for( i =0;i<nums.size();i++)</pre>
               sums=nums[i];
              if(nums[i]==k)
              {
                   p+=1;
              for( j=i+1;j<nums.size();j++)</pre>
```

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{
    sums+=nums[j];
    if(sums==k)
    {
        p+=1;
    }
}

return p;
}

4) maximum product of three numbers(628)

Solutions
int maximumProduct(vector<int>& nums) {
    int c;
    sort(nums.begin(),nums.end());
    c=nums.size();
    return max(nums[c-1]*nums[c-2]*nums[0]*nums[1]*nums[c-1]);
```

}