Genspark-training - HACKERRANK

```
1)https://www.hackerrank.com/challenges/plus-minus/problem?isFullScreen=true
class Result
    public static void Main(string[] args)
         int n = int.Parse(Console.ReadLine().Trim());
         string input = Console.ReadLine();
         string[] parts = input.Split(' ',
StringSplitOptions.RemoveEmptyEntries);
         List<int> calculation = new List<int>();
         foreach (string part in parts)
              calculation.Add(int.Parse(part));
         }
         int pos=0, neg=0, zer=0;
         decimal total = calculation.Count;
         foreach (int i in calculation)
             if(i > 0)
                  pos++;
              }
              else if(i<0)</pre>
                  neg++;
              }
              else
                 zer++;
              }
         }
         Console.WriteLine($"{(decimal)pos / total:F6}");
         Console.WriteLine($"{(decimal)neg / total:F6}");
         Console.WriteLine($"{(decimal)zer / total:F6}");
    }
}
2) <a href="https://www.hackerrank.com/challenges/staircase/problem?isFullSc">https://www.hackerrank.com/challenges/staircase/problem?isFullSc</a>
reen=true
public static void staircase(int n)
```

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for (int j = 0; j < n - i; j++)
                   Console.Write(' ');
               }
              for (int k = 0; k < i; k++)
                   Console.Write('#');
              Console.WriteLine();
          }
3) https://www.hackerrank.com/challenges/mini-max-sum/problem?isFul
1Screen=true
public static void miniMaxSum(List<int> arr)
         arr.Sort();
         long l=0, r=0;
         for (int i=0; i<4; i++)
              l=l+arr[i];
         for(int i=1;i<5;i++)
              r=r+arr[i];
         Console.WriteLine(l+" "+r);
4) <a href="https://www.hackerrank.com/challenges/birthday-cake-candles/prob">https://www.hackerrank.com/challenges/birthday-cake-candles/prob</a>
lem?isFullScreen=true
public static int birthdayCakeCandles(List<int> candles)
         var frequency = candles.GroupBy(x => x).ToDictionary(x => x)
x.Key, x => x.Count());
         int maxheight = frequency.Keys.Max();
         return frequency[maxheight];
5) <a href="https://www.hackerrank.com/challenges/time-conversion/problem?is">https://www.hackerrank.com/challenges/time-conversion/problem?is</a>
FullScreen=true
public static string timeConversion(string s)
     {
```

for (int i = 1; i <= n; i++)

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string period = s.Substring(s.Length - 2);
         String[] timeparts = s.Substring(0,8).Split(':');
         int hour = int.Parse(timeparts[0]);
         int minute = int.Parse(timeparts[1]);
         int second = int.Parse(timeparts[2]);
         if(period == "AM")
         {
                  if(hour == 12)
                      hour = 0;
         }
         else
         {
             if(hour != 12 )
             {
                  hour += 12;
             }
         }
         return $"{hour:D2}:{minute:D2}:{second:D2}";
6) <a href="https://www.hackerrank.com/challenges/grading/problem?isFullScre">https://www.hackerrank.com/challenges/grading/problem?isFullScre</a>
en=true
public static List<int> gradingStudents(List<int> grades)
    {
         List<int> result = new List<int>();
         foreach (int grade in grades)
         if (grade < 38)
            result.Add(grade);
         }
         else
             int nextMultipleOf5 = ((grade + 4) / 5) * 5;
             if (nextMultipleOf5 - grade < 3)</pre>
                  result.Add(nextMultipleOf5);
             }
             else
              {
                  result.Add(grade);
```

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}
    }
    return result;
7) https://www.hackerrank.com/challenges/apple-and-orange/problem?i
sFullScreen=true
public static void countApplesAndOranges(int s, int t, int a, int
b, List<int> apples, List<int> oranges)
         int m = apples.Count();
         int n = oranges.Count();
         int count app=0;
         int count orng=0;
         foreach(int apple in apples)
              if(a + apple \geq s && a+apple \leq t)
                  count_app++;
              }
         foreach(int orange in oranges)
              if(b + orange >= s && b+orange <= t)</pre>
                  count orng++;
              }
         Console.WriteLine(count app);
         Console.WriteLine(count orng);
8) <a href="https://www.hackerrank.com/challenges/kangaroo/problem?isFullScr">https://www.hackerrank.com/challenges/kangaroo/problem?isFullScr</a>
<u>een=true</u>
public static string kangaroo(int x1, int v1, int x2, int v2)
              if(x2 > x1 && v2 > v1)
                  return "NO";
              }
              else
              {
                  if ((v1>v2) \&\& (x1-x2) % (v1-v2) == 0)
```

}

```
return "YES";
                   }
                   else
                       return "NO";
                   }
              }
9) <a href="https://www.hackerrank.com/challenges/between-two-sets/problem?i">https://www.hackerrank.com/challenges/between-two-sets/problem?i</a>
sFullScreen=true
public static int getTotalX(List<int> a, List<int> b)
    {
         int lcm = a[0];
         foreach(int i in a.Skip(1))
              lcm = LCM(lcm, i);
         int gcd = b[0];
         foreach(int i in b.Skip(1))
              gcd = GCD(gcd,i);
         int count=0;
         for(int i=lcm;i<=qcd;i+=lcm)</pre>
              if(gcd%i==0)
              {
                   count++;
          }
         return count;
    public static int GCD(int x, int y)
     {
         while (y!=0)
              int temp = y;
              y = x % y;
              x = temp;
         return x;
     }
```

```
public static int LCM(int x,int y)
{
    return (x*y)/GCD(x,y);
}
```

10) https://www.hackerrank.com/challenges/breaking-best-and-worst-records/problem?isFullScreen=true

```
public static List<int> breakingRecords(List<int> scores)
    {
        int n=scores.Count();
        int min=scores[0];
        int max=scores[0];
        int h=0, l=0;
        for(int i=0;i<n;i++)
            if(scores[i] < min)</pre>
            {
                1++;
                min=scores[i];
            }
            if(scores[i]>max)
            {
                h++;
               max=scores[i];
            }
        }
        List<int> result = new List<int> { h, l };
    return result;
```