Executed logic in C#:

class Program

{

static void Main(string[] args)

{

int blocksize = 1000000; //total bytes of blocksize

double answer500000bytes = 13.4376;

double answer1byte = 0.00002687520;// (13.4376 / 500000)

int blocks = 1;

double answer = 0;

int[] trnsctn = { 57247, 98732, 134928, 77275, 29240, 15440, 70820, 139603, 63718, 143807, 190457, 40572 };

int sum = 0;

for (int i = 0; i < trnsctn.Length; i++)

{

sum += trnsctn[i];

if (sum == blocksize) { answer += (answer500000bytes \* 2); blocks += 1; sum = 0; }

else if (sum == 500000) { answer += answer500000bytes ; blocks += 1; sum = 0; }

else if (sum > blocksize) { i = i - 1; sum = sum - trnsctn[i]; answer += sum \* answer1byte; blocks += 1; sum = 0; }

else { }

}

Console.WriteLine("blocks: " + blocks + ", maximum Rewards:" + answer);

Console.ReadLine();

}

}

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OUTPUT:** |  |  |  |  |  |
|  | **blocks: 2, maximum Rewards:****23.581912992** | | | | |

**Explanation:**

As per note and hint in the given PDF file I write the code as above.

* One block can contain 1000000bytes only and transactions can’t repeat.
* In hint they said 500000byte block answer is 13.4376. So if it 1000000 then it is 13.4376\*2. But exact 1000000bytes are not came by adding different transactions in that given 12. So, I divided 1byte result as 13.4376/500000. And created blocks less than or equal to 1000000. If it is less than 1000000 then I multiple that value with (13.4376/500000).
* Based on the above point I got 2 blocks and answer as 23.581912992