

or pages minimum.

Allocate Books

$arr[] = \{12, 34, 67, 90\}$ $n=4$ students $=2$

Conditions

- (i) A Book will be allocated to one student
- (ii) Each students must get a minimum of 1 Book.
- (iii) Allotment should be in contiguous order.

TUF

Min No of pages allocated is minimum.

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$arr[] = \{12, 34, 67, 90\}$ $n=4$ students $=2$

12 67 34 90
1 2

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1 2 | 34 67 90
12, 34 | 67 90
12, 34, 67 | 90

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TUF

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arr = [12, 34, 67, 90] n=4 students=2

191 ← [12] | [34 + 67 + 90] 191

157 [12] | [34 + 67 + 90] 157

113 [12 + 34 + 67] | [90] 113

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TUF

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Allocate Books

$arr[] = \{12\ 34\ 67\ 90\}$ $n=4$ $students = \underline{2}$

$\Rightarrow \underline{\underline{O(N^2)}}$

TUF

Min No of pages allocated is minimum.

Allocate Books

$arr[] = \{12\ 34\ 67\ 90\}$ $n=4$ $students = \underline{2}$

search space

$\left[\begin{array}{c} \underline{\underline{low}} \\ \underline{\underline{high}} \end{array} \right]$

$arr = \{12, 12, 12, 12\}$ $S=4$

$\leftarrow \overset{12}{\boxed{12}} \mid \overset{12}{\boxed{12}} \mid \overset{12}{\boxed{12}} \mid \overset{12}{\boxed{12}}$

TUF

No of pages allocated is minimum.

Allocate Books

$arr[] = \{12\ 34\ 67\ 90\}$ $n=4$ $students = \underline{2}$

search space

$\left[\begin{array}{c} \underline{\underline{low}} \\ \underline{\underline{high}} \end{array} \right]$

$arr[] = \{10, 20, 30\}$ $Stud = 1$

$\boxed{\begin{array}{c} 60 \\ 10\ 20\ 30 \end{array}}$

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pages allocated is minimum. 113 Allocate Books

arr[] = {12 34 67 90} n=4 students = 2

[12] 203 search space
low high

area[] = {10, 20, 30} Stud = 1
60
[10 20 30]

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pages allocated is minimum. 113 Allocate Books

arr[] = {12 34 67 90} n=4 students = 2

[12] [107] 203
↓ ↓ ↓
low mid high

1 → 12 + 34

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pages allocated is minimum. 113 Allocate Books

arr[] = {12 34 67 90} n=4 students = 2

[12] [107] 203
↓ ↓ ↓
low mid high

113 1 → 12 + 34 + 67

TUF

Min No of pages allocated is minimum. 113

Allocate Books

$\{12\ 34\ 67\ 90\}$ $n=4$ students $\boxed{2}$

$\boxed{107}$
 \downarrow
 mid

$\boxed{203}$
 \downarrow
 high

$1 \rightarrow 12 + 34$
 $2 \rightarrow 67 + 90$

TUF

Min No of pages allocated is minimum. 113

Allocate Books

$\text{arr}[1] = \{12\ 34\ 67\ 90\}$ $n=4$ students $\boxed{2}$

$\boxed{12}$
 \downarrow
 low

$\boxed{107}$
 \downarrow
 mid

$\boxed{203}$
 \downarrow
 high

$1 \rightarrow 12 + 34$
 $2 \rightarrow 67$
 $3 \rightarrow 90$

TUF

Min No of pages allocated is minimum. 113

Allocate Books

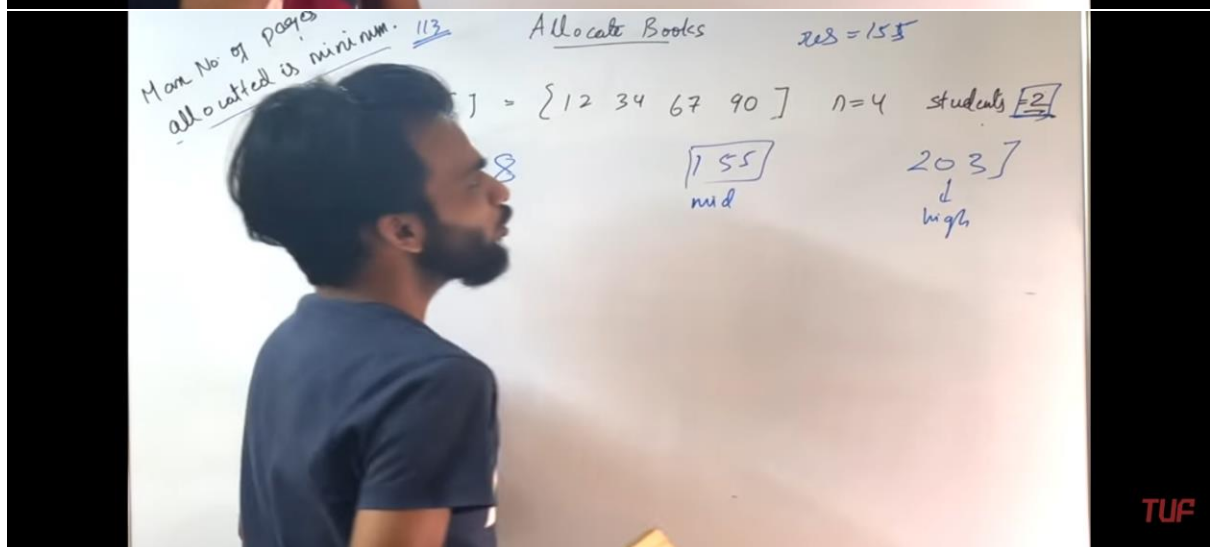
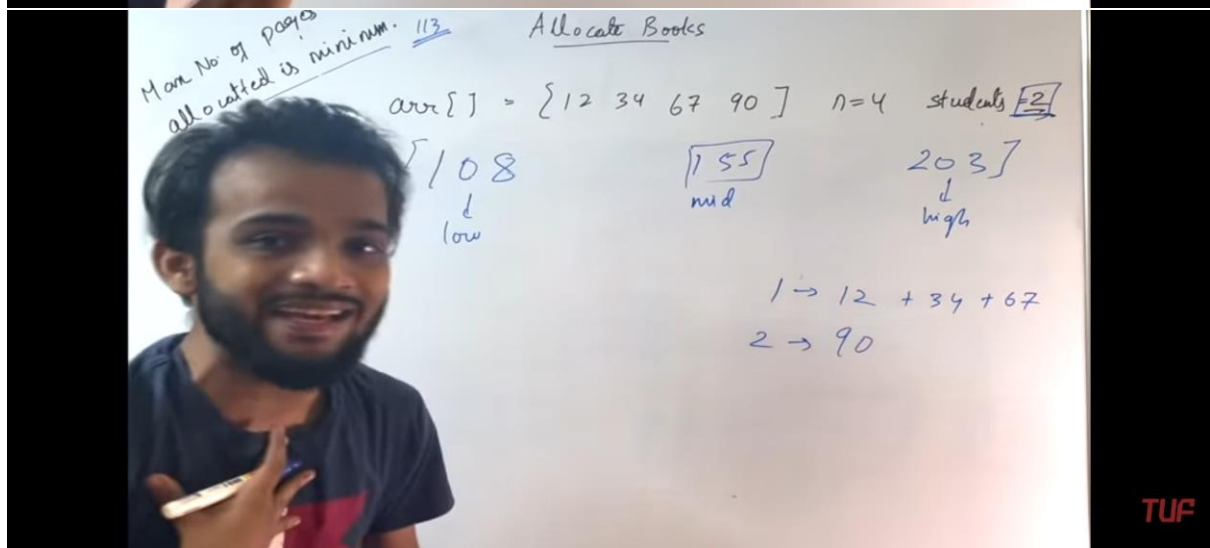
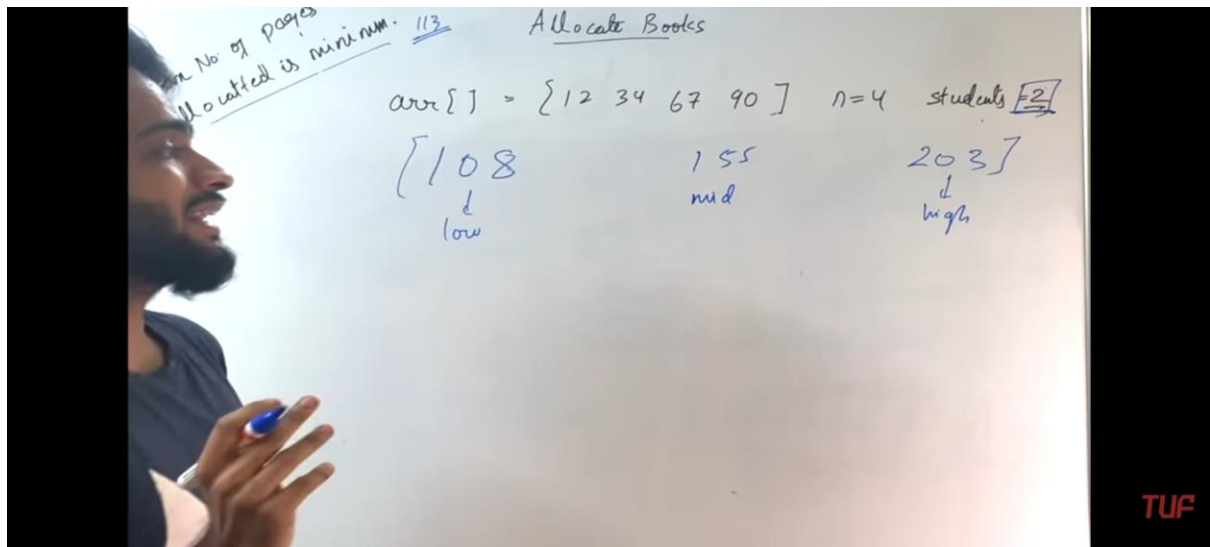
$\text{arr}[1] = \{12\ 34\ 67\ 90\}$ $n=4$ students $\boxed{2}$

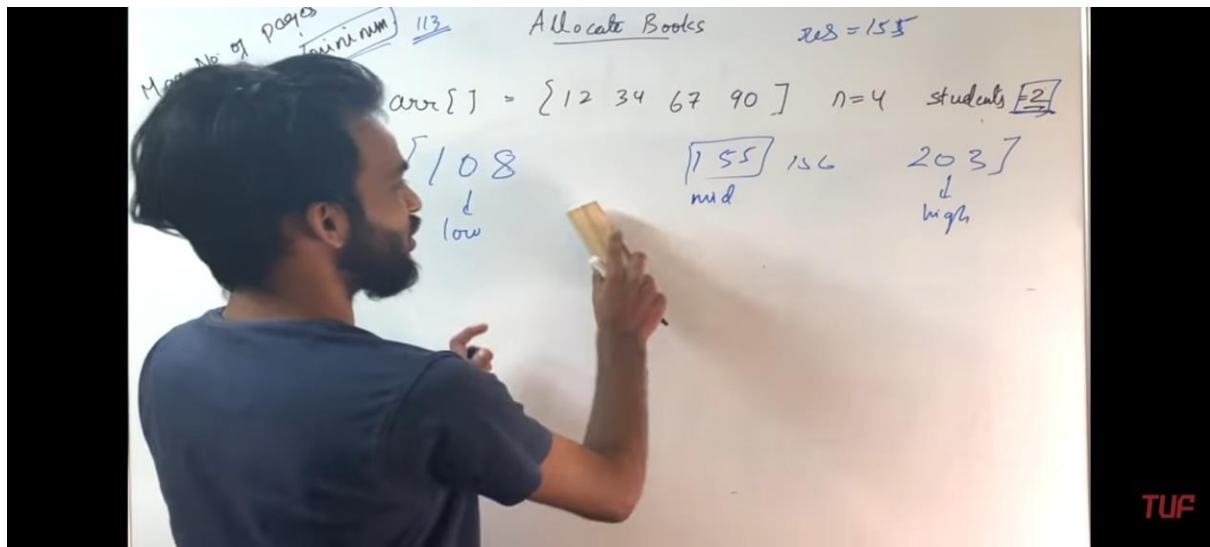
$\boxed{108}$

$\boxed{203}$
 \downarrow
 high

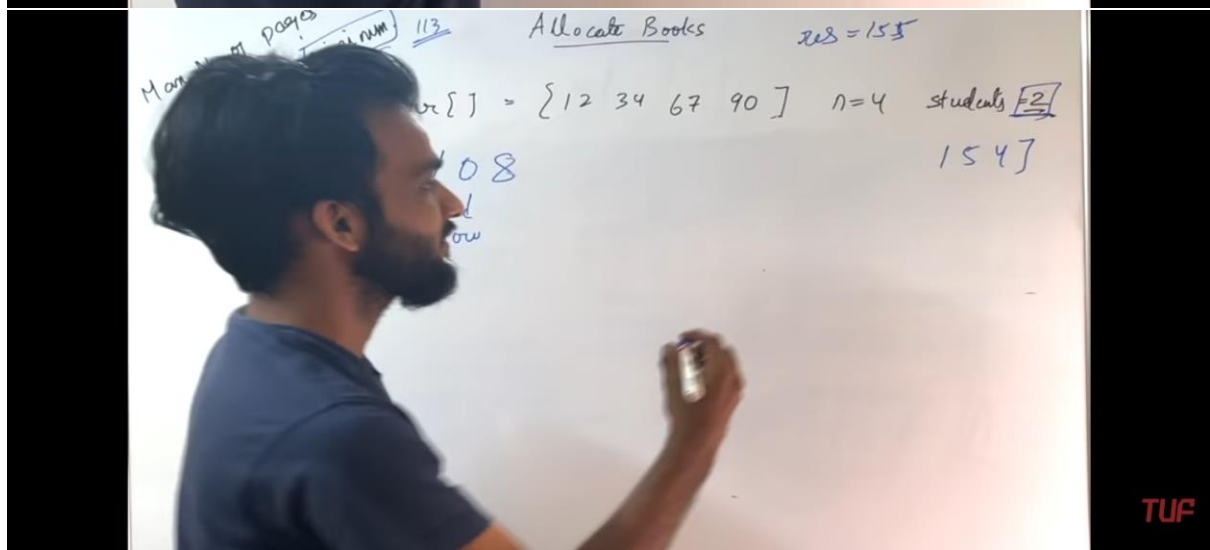
$1 \rightarrow 12 + 34$
 $2 \rightarrow 67$
 $3 \rightarrow 90$

TUF

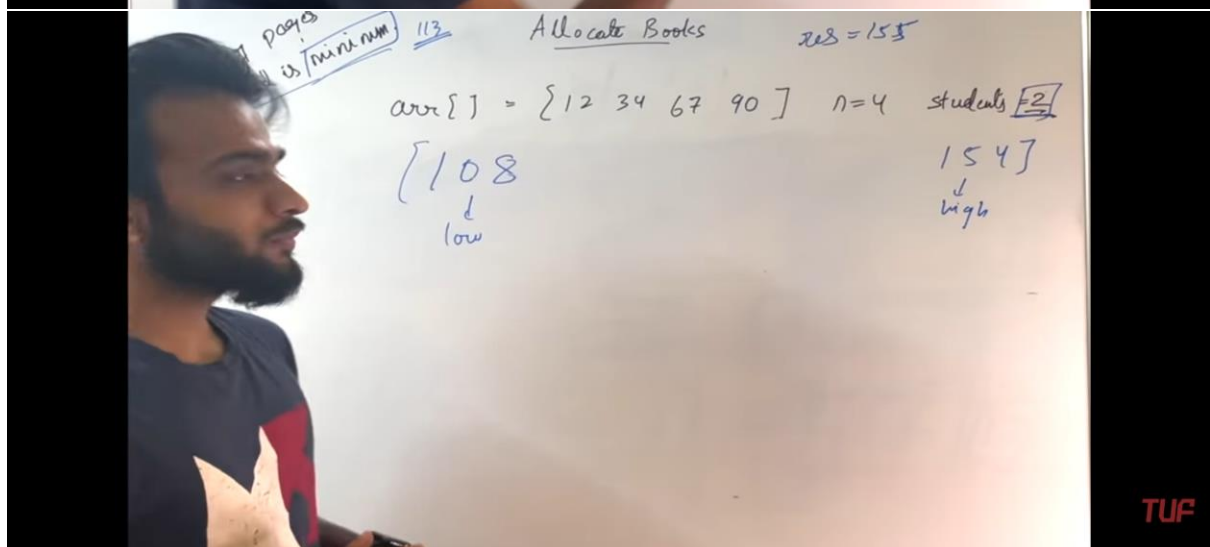




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TUF



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Max no. of pages
 is minimum 113

Allocate Books

$arr[] = \{12, 34, 67, 90\}$ $n=4$ students 2 $res = 153$

108
 ↓
 low

131
 mid

154
 ↓
 high

1 → 12 + 34 + 67
 2 → 90

TUF

Max no. of pages
 is minimum 113

Allocate Books

$arr[] = \{12, 34, 67, 90\}$ $n=4$ students 2 $res = 153$

108
 ↓
 low

131
 mid

154
 ↓
 high

1 → 12 + 34 + 67
 2 → 90

TUF

Max no. of pages
 is minimum 113

Allocate Books

$arr[] = \{12, 34, 67, 90\}$ $n=4$ students 2 $res = 153$

108
 ↓
 low

119
 mid

130
 ↓
 high

1 → 12 + 34 + 67
 2 → 90

TUF

No. of pages allocated is minimum 113

Allocate Books

$res = 15 + 13 + 119$

arr[] = {12 34 67 90} n=4 students 2

$\boxed{108}$	$\boxed{113}$	$\boxed{118}$
↓	↓	↓
low	mid	high

1 → 12 + 34 + 67

TUF

No. of pages allocated is minimum 113

Allocate Books

$res = 15 + 13 + 119$

arr[] = {12 34 67 90} n=4 students 2

$\boxed{108}$	$\boxed{113}$	$\boxed{118}$
↓	↓	↓
low	mid	high

1 → 12 + 34 + 67

2 → 90

TUF

Max No. of pages allocated is minimum 113

Allocate Books

$res = 15 + 13 + 119$

arr[] = {12 34 67 90} n=4 students 2

8	$\boxed{113}$	$\boxed{118}$
	↓	↓
	mid	high

1 → 12 + 34 + 67

2 → 90

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Allocate Minimum Number of Pages | Binary Search

arr[] = {12 34 67 90} n=4 students 2

low 108 mid 113 high 118

1 → 12 + 34 + 67
2 → 90

16:33 / 15:51

BINARY SEARCH PLACEMENT SERIES CRACK

Min No. of pages allocated is minimum 113 Allocate Books res = 15 13 119 113

arr[] = {12 34 67 90} n=4 students 2

low 108 mid 110 high 112

1 → 12 + 34
2 → 67
3 → 90

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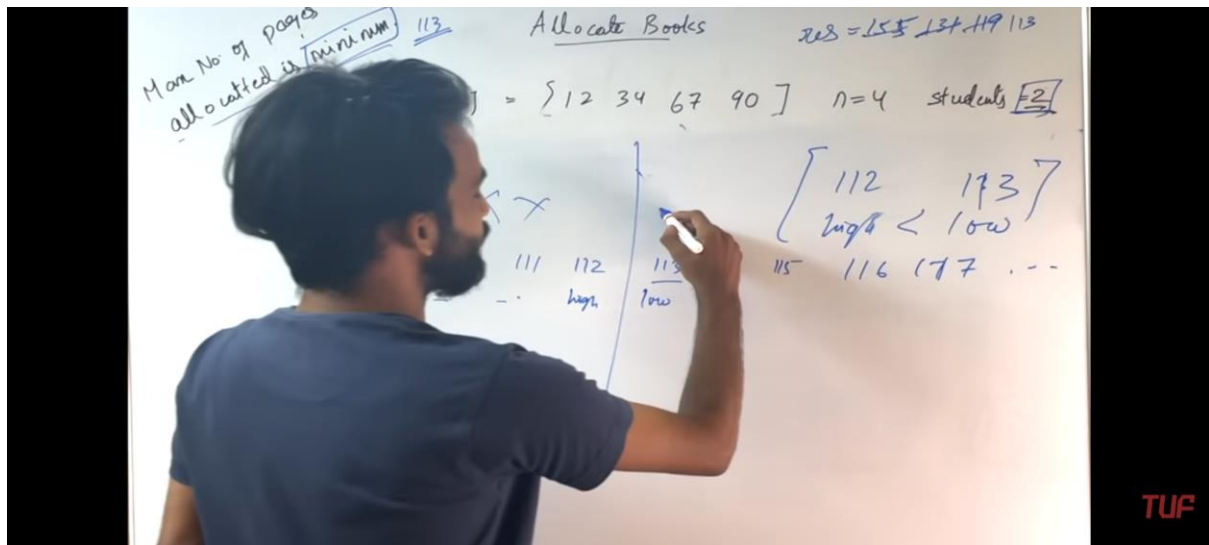
Min No. of pages allocated is minimum 113 Allocate Books res = 15 13 119 113

arr[] = {12 34 67 90} n=4 students 2

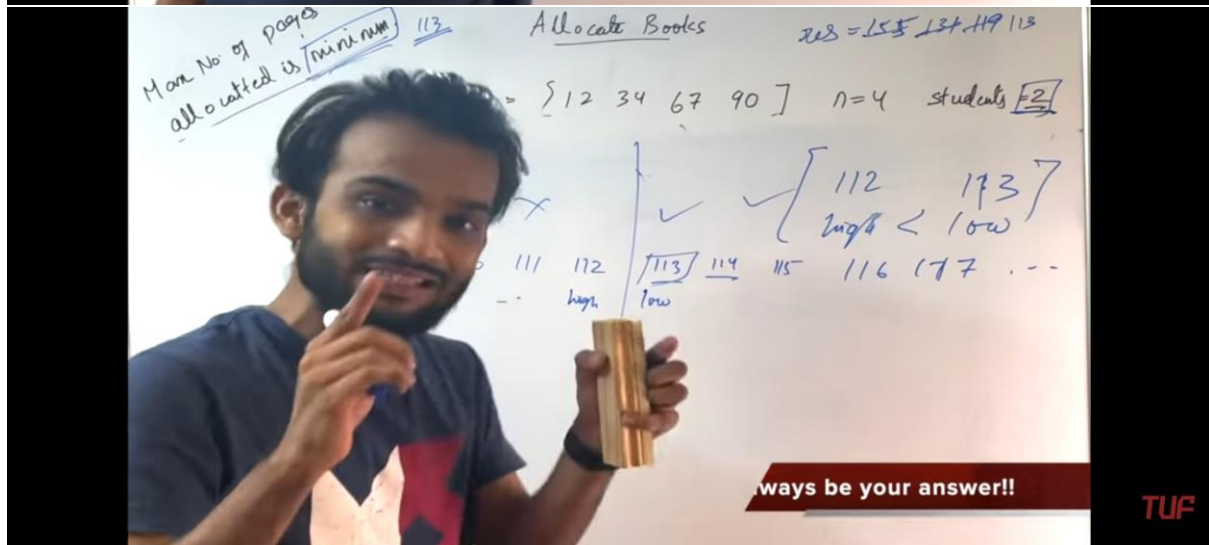
low 108 mid 110 high 112

1 → 12 + 34
2 → 67
3 → 90

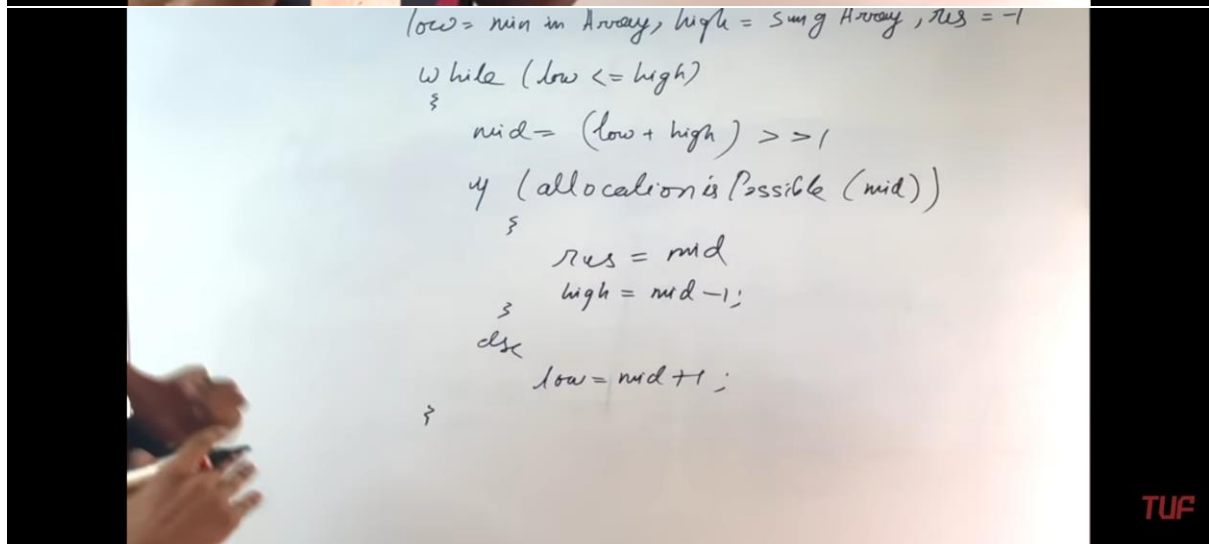
TUF



TUF



TUF



TUF


```

bool isPossible (int barrier)110 { {12, 34, 67, 90}
    allocated stu = 1, pages = 0      Students = 2
                                      1 → 12 + 34
    for (i = 0 ; i < n ; i++) {
        if (arr[i] > barrier) return false;
        if (pages + arr[i] > barrier)
        {
            allocated stu += 1;
            pages += arr[i];
        }
        else
            pages += arr[i];
    }
}

```

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```

bool isPossible (int barrier)110 { {12, 34, 67, 90}
    allocated stu = 1, pages = 0      Students = 2
                                      1 → 12 + 34
    if (allocated stu > k) for (i = 0 ; i < n ; i++) {
        return false;        if (arr[i] > barrier) return false;
                               if (pages + arr[i] > barrier)
                               {
                                   allocated stu += 1;
                                   pages += arr[i];
                               }
                               else
                                   pages += arr[i];
    }
}

```

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bool isPossible (int ¹¹⁰barrier) { {12, 34, 67, 90}
allocated stu = 1, pages = 0 Students = 2
1 → 12 + 34

```
if (allocated stu > k) for (i = 0; i < n; i++) {  
    return false;      if (arr[i] > barrier) return false;  
                        if (pages + arr[i] > barrier)  
                        {  
                            allocated stu += 1;  
                            pages += arr[i];  
                        }  
                        }  
else  
    pages += arr[i];  
}
```

TUF

bool isPossible (int ¹¹⁰barrier) { {12, 34, 67, 90}
allocated stu = 1, pages = 0 Students = 2
1 → 12 + 34

```
if (allocated stu > k) for (i = 0; i < n; i++) {  
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                        {  
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                            pages += arr[i];  
                        }  
                        }  
else  
    pages += arr[i];  
}
```



TUF