



Mahidol University
Wisdom of the Land

Pointer

Example

Number of Student : 5

Student 1 = 20.5

Student 2 = 19.0

Student 3 = 21.0

Student 4 = 18.5

Student 5 = 19.5

Average score of 5 students is 19.7

```
#include <stdio.h>
#include <stdlib.h>
void main()
{
    int num;
    float *score;

    printf("Number of Student : ");
    scanf("%d",&num);
    score = (float *)malloc(num*sizeof(float));

    ...

    free(score);
}
```



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```
#include <stdio.h>
#include <stdlib.h>
void main()
{
    int num;
    float *score;
    int i;
    float sum;

    printf("Number of Student : ");
    scanf("%d",&num);
    score = (float *)malloc(num*sizeof(float));
```

```
    sum = 0.0;
    for (i=0; i<num; i++)
    {
        printf("Student %d = ",i+1);
        scanf("%f",score+i);
        sum += *(score+i);
    }
    printf("Average score of %d students
           is %.1f \n",num,sum/num);

    free(score);
}
```