

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
struct arithmetic {
```

```
    int digit;
```

```
    struct arithmetic *next;
```

```
};
```

```
int main() {
```

```
    char str1[1000];
```

```
    char str2[1000];
```

```
    printf("Specify the first number\n");
```

```
    scanf("%s", str1);
```

```
    printf("Specify the second number\n");
```

```
    scanf("%s", str2);
```

```
    printf("You entered %s and %s\n", str1, str2);
```

```
    struct arithmetic *number1 = NULL;
```

```
    struct arithmetic *number2 = NULL;
```

```
    struct arithmetic *number3 = NULL;
```

```
    struct arithmetic *point1 = NULL;
```

```
    struct arithmetic *point2 = NULL;
```

```
    struct arithmetic *point3 = NULL;
```

```
    int i = 0;
```

```
    while (str1[i] != '\0') {
```

```
        int convert = str1[i] - '0';
```

```
    struct arithmetic *newdigit = (struct arithmetic*)malloc(sizeof(struct arithmetic));  
    newdigit->digit = convert;  
    newdigit->next = point1;  
    point1 = newdigit;  
    i++;  
}
```

```
i = 0;
```

```
while (str2[i] != '\0') {  
    int convert = str2[i] - '0';  
    struct arithmetic *newdigit = (struct arithmetic*)malloc(sizeof(struct arithmetic));  
    newdigit->digit = convert;  
    newdigit->next = point2;  
    point2 = newdigit;  
    i++;  
}
```

```
int carry = 0;
```

```
while (point1 != NULL || point2 != NULL || carry) {  
    int sum = carry;  
  
    if (point1 != NULL) {  
        sum += point1->digit;  
        point1 = point1->next;  
    }  
  
    if (point2 != NULL) {
```

```
        sum += point2->digit;
        point2 = point2->next;
    }

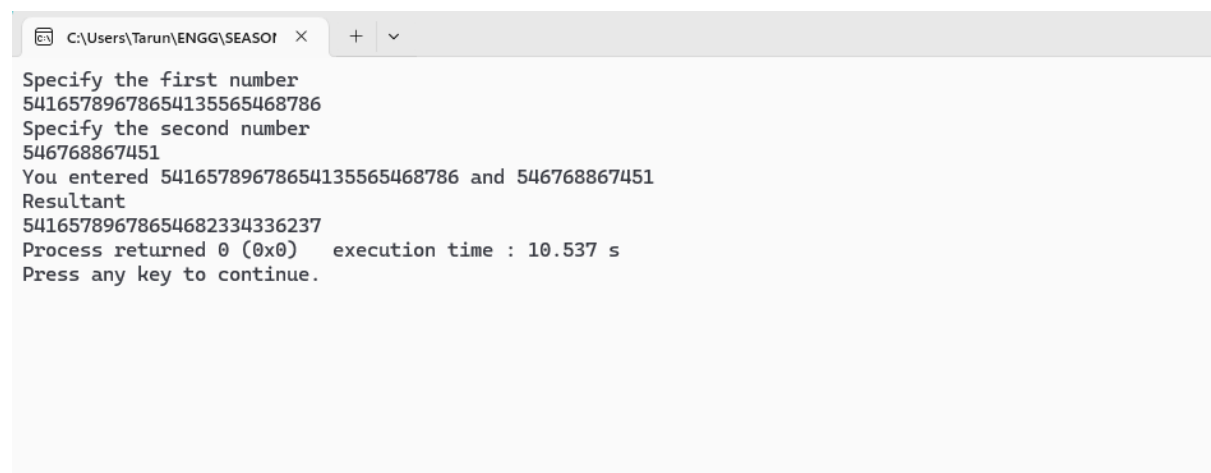
    carry = sum / 10;
    sum = sum % 10;

    struct arithmetic *newdigit = (struct arithmetic*)malloc(sizeof(struct arithmetic));
    newdigit->digit = sum;
    newdigit->next = point3;
    point3 = newdigit;
}

printf("Resultant\n");

while (point3 != NULL) {
    printf("%d", point3->digit);
    point3 = point3->next;
}

return 0;
}
```



```
C:\Users\Tarun\ENGG\SEASOI >
Specify the first number
54165789678654135565468786
Specify the second number
546768867451
You entered 54165789678654135565468786 and 546768867451
Resultant
54165789678654682334336237
Process returned 0 (0x0)   execution time : 10.537 s
Press any key to continue.
```