

```
1 //sample codes on dynamic allocation/variables
2 #include<stdio.h>
3 #include<malloc.h>
4 #define N 5
5
6 void init(int a[]){
7     int i;
8
9     for(i=0;i<N;i++)
10         a[i]=i+1;
11 }
12
13 void output(int a[]){
14     int i;
15
16     for(i=0;i<N;i++)
17         printf("%i\n",a[i]);
18 }
19
20
21 int main(){
22     int *p;
23
24     //dynamic allocation
25     p=(int *)malloc(N*sizeof(int)); //int p[N];
26
27     init(p);
28     output(p);
29
30     //dynamic deallocation
31     free(p);
32
33 }
```