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#include <stdio.h>
#include <stdlib.h>
#include <stdbool.h>

bool prim(int* A, int n) // function declaration must be before "main"
{
    int i,j;
    for(i=2;i<n;i++)
        A[i] = true;

    for(i=2;i<n;i++) {
        for(j=i*i;j<n;j++) {
            A[j] = false;
        }
    }
}

int main()
{
    int n,i;

    printf("Enter the limit: ");
    scanf("%d",&n);
    int *A = (int *)malloc(sizeof(int) *n); //allocate the memory

    prim(A,n);

    for(i=2;i<n;i++) {
        if(A[i]) {
            printf("\n%d",i);
        }
    }
}
```

```
}  
  
free(A); // free the memory  
return 0;  
}
```

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