Test on Revision part of C and DMA

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*Required

Questions

Which header file should be included to use the memory allocation functions like malloc(), calloc(), realloc() and free()? *

stdlib.h

What is the return type of malloc() or calloc()? *

void

```
Predict the output *
Assume no compilation error
int main()
{
   int i;
            int *j, *m;
            j= (int*)malloc(4 * sizeof(int));
            m = j;
            *j = 15;
            j++;
            *j= 20;
            j++;
            *j = 25;
            j++;
            *j = 30;
            printf("%d\n", *j);
            (*j)++;
            for(i = 0; i < 4; i++,m++)
                       printf("%d\t", *m);
            printf("\n");
            for(i=0; i < 4; i++, j--)
                       printf("%d\t", *j);
            return 0;
}
30 15 20 25 31 31 25 20 15
```

WAP to create a n students dynamically for SE Comps B class, and check whether a student entered in google meet is authorized or not. Note: Program should be syntactically and semantically correct. *

Write equivalent statement using malloc for ptr = calloc(m, n) , note m: no of elements & n: sizeof each element *

```
ptr = malloc (m*n);
```

Which function is used to delete the allocated memory space? *
Write signature of function

free();

Dynamic memory allocation takes place from which segment of main memory? *
Heap

```
Write output and justification.*

#include<stdio.h>
#include<stdlib.h>
int main()
{
          double *p;
          p = (double *)malloc(40);
          printf("%d\n", sizeof(p));|
          free(p);
          return 0;
}
```

```
Write a programming stmt to allocate memory for 5 Sample variables dynamically.*

typedef struct
{
    int a;
    char b;
    float c;
}Sample;

malloc (5*sizeof(Sample));
```

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