## Dæmi 1:

Skipun	Gildi	Tag	X	ip	fp	y
int x = 0;	0	int	0			
int* ip = &x	&x	Pointer á		&x		
		int				
*ip += 1;	1	int	1			
float *fp = (float*)ip;	&x	Pointer á			&x	
		float				
*fp = 1.0;	1.0	int	Int			
			túlkun			
			á float			
			gildinu			
			1.0			
int $y = *ip$ ;	X	int				Int
						túlkun
						á float
						gildinu
						1.0

```
Dæmi 2:
```

```
#include <stdio.h>
#include <stdlib.h>
char** split(const char* s, int *n)
  int i = 0, t = 0, c = 0, l = 0;
  while(s[i] != '\0')
    if(s[i] == ' ' || s[i] == '\t')
      1++;
    }
    i++;
  }
  *n = 1+1;
  char **a = (char**) malloc(l+1);
  i = 0;
  while(s[i] != '\0')
    if(s[i] == ' ' || s[i] == '\t')
      char* b = (char*) malloc(i-t+1);
      for (int j = 0; j < (i-t); j++)
        b[j] = s[t + j];
      b[i-t] = ' \setminus 0';
      a[c] = b;
      C++;
      t = i + 1;
    }
    i++;
  char* b = (char*) malloc(i-t+1);
  for (int j = 0; j < (i-t); j++)
    b[j] = s[t + j];
  b[i-t] = ' \setminus 0';
  a[c] = b;
  return a;
}
int main()
  char *s = "Sesar Hersisson og Breki Pálsson";
  char** split s = split(s, &n);
  for(int i = 0; i < n; i++)</pre>
```

```
{
    printf("%s ", split_s[i]);
}
printf("\n");
for(int i = 0; i < n; i++)
{
    free(split_s[i]);
    split_s[i] = 0;
}
free(split_s);
split_s = 0;
}</pre>
```

```
Dæmi 3:
double** array_init(int n, int m)
  double **A = (double**) malloc(n * sizeof(double*));
  for(int i = 0; i < n; i++)</pre>
    A[i] = (double*) malloc(m * sizeof(double));
    for(int j = 0; j < m; j++)</pre>
      A[i][j] = 0;
    }
  }
  return A;
void array_free(double **A, int n, int m)
  for(int i = 0; i < n; i++)</pre>
    free(A[i]);
   A[i] = 0;
  }
 free(A);
 A = 0;
}
```