

Two Factor of Revision (2)

Answer: - Rep

How can calculate MTBF (2)

Answer: - Rep

what is software refactoring (2)

Answer:- (Page 143)

Software refactoring is the process of changing a software system such that the external behavior of the system does not change while the internal structure of the system is improved. This is sometimes called “Improving the design after it has been written”.

List the factor involved in calculating the cost of reengineering (3 marks)

Answer:- (Page 140)

Cost of reengineering would then be given by the formula:

$$C_{\text{reengineering}} = [P6 - (P4 + P5) \times (L - P8) - (P7 \times P9)]$$

The following code segment sorts an array of integers using “selection sort” algorithm. (3 marks)

```
for (i=0; i < N-1; i++) {  
    min = i;  
    for (j = i; j < N; j++)  
        if (a[j] < a[min]) min = j;  
    temp = a[i];  
    a[i] = a[min];  
    a[min] = temp;  
}
```

Answer:- (Page 144)

We break it into smaller fragments by making smaller functions out of different steps in the algorithm as follows:

```
int minimum (int a[ ], int from, int to)  
{  
    int min = from;  
    for (int i = from; i <= to; i++)  
        if (a[i] < a[min]) min = i;  
    return min;  
}
```

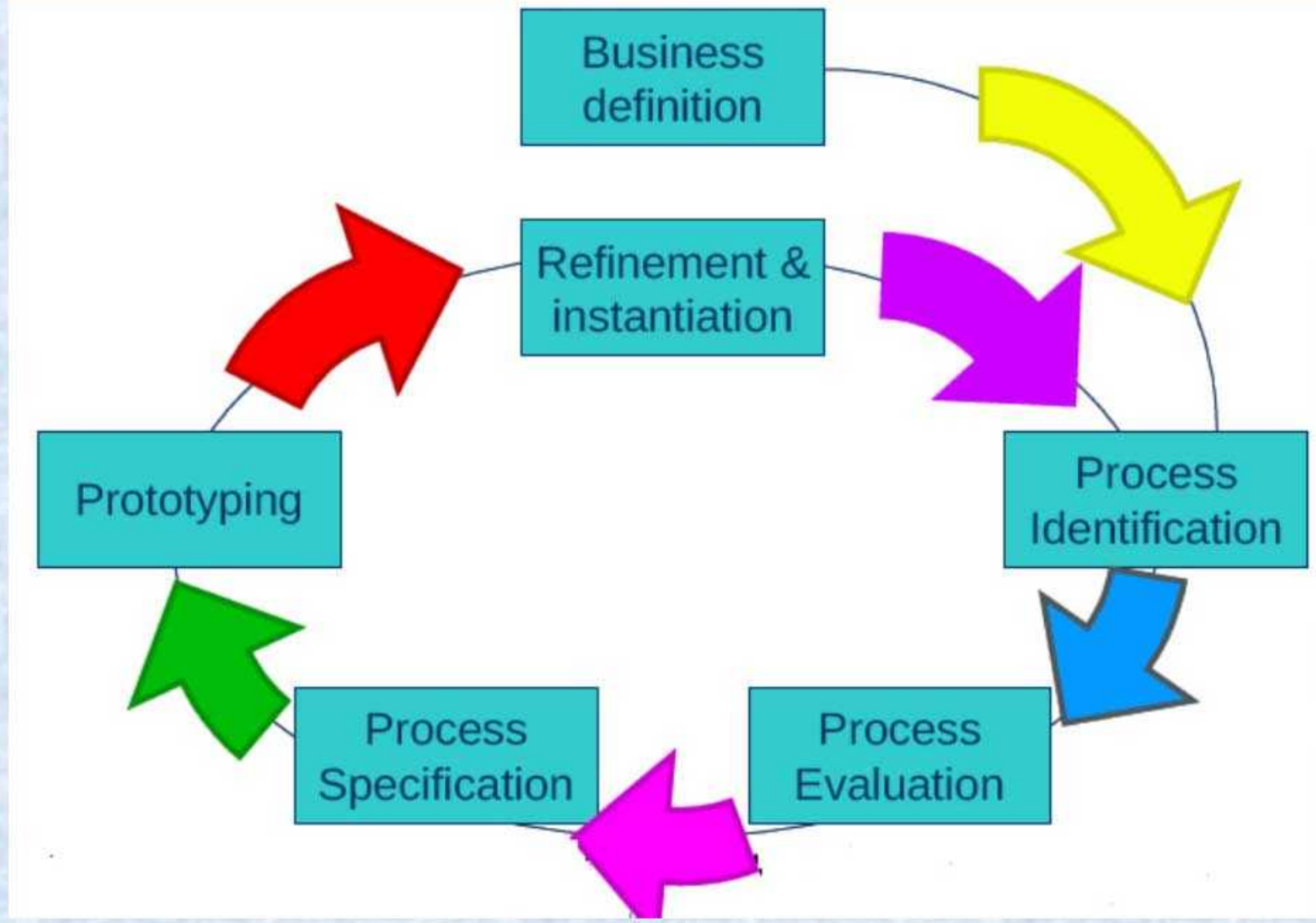
```
void swap (int &x, int &y)  
{  
    int temp = x;  
    x = y;  
    y = temp;  
}
```

The sort function now becomes simpler as shown below.

```
for (i=0; i < N-1; i++) {  
    min = minimum (a, i, N-1);  
    swap(a[i], a[min]);  
}
```

what are the step of BPR (5 marks)

Answer:- (Page 141)



خاموشی غصے کا بہترین علاج ہے

انسان دکھ نہیں دیتے بلکہ انسانوں سے وابستہ امیدیں دکھ دیتی ہیں

عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے